# THE 2021-22

# Medical-Dental-Legal UPDATE

Medical Malpractice • Risk Management • Practice Management Healthcare Law • Selected Clinical Topics



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# Dear Registrant:

You practice in a dynamic and challenging environment. While keeping clinically current is imperative, it isn't enough. You must also acquire the skills necessary to navigate a professional liability minefield, manage a more effective and efficient practice, and master a maze of healthcare laws and regulations. *The 2021-22 Medical-Dental-Legal Update* is designed to assist you in that endeavor.

In one course you will receive 20 hours of vital instruction from national experts in the fields of law, medicine, asset protection, psychology, and practice management. And their presentations include topics ranging from high conflict patients, type 2 diabetes, professional employment agreements and COPD, to retirement planning, acute cardiac event triggers, the practitioner as a witness, and understanding practice financial statements.

To help you assess your level of comprehension we offer brief self-evaluations that may be taken either before or after the presentations concerned. These tests are included in this syllabus and are identified by the black edges of the pages on which they are featured.

As always, I am very interested in your reaction to this year's presentation. Please do me the favor of taking the time to complete the evaluation questions presented on screen for each presentation. In addition, I encourage you to contact any of our faculty members directly with questions or comments.

Finally, I urge you to take advantage of the diversity of professionals enrolled this week. Chances are your classmates include physicians, dentists, and attorneys. What better way to gain another perspective on these multi-faceted issues than to discuss them with a colleague from a different discipline.

Thank you for your participation and please accept my best wishes for a safe, enjoyable and enlightening visit.

Cordially,

AMERICAN EDUCATIONAL INSTITUTE, INC.

Pail Flitter

David R. Victor, Esq

President

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# **COURSE OBJECTIVES**

After completing *The 2021-22 Medical-Dental-Legal Update* you should have acquired the knowledge that will better enable you to better:

- Understand cardiovascular risks inherent in high intensity physical activity and how to mitigate them.
- Understand the health impact of sleep as well as non-medical approaches to engender better sleep.
- Develop and maintain patient and physician referral relationships.
- Understand the key elements of a **professional employment agreement**.
- Identify acute cardiovascular event triggers and how they're prevented.
- Diagnose and treat Carpal Tunnel Syndrome.
- Read and understand practice financial reports.
- Glean helpful **practice management data** from financial reports.
- Understand the nature of the DEA's focus on opioids and healthcare providers.
- Utilize a variety of clinically relevant but relatively unknown treatments.
- Understand the nature and diagnosis of transthyretin amyloidosis as well as pharmacologic options.
- Better manage macrovascular risk in type 2 diabetes.
- Better lung cancer screening decision making
- Better recognize the symptoms of **professional burnout** and take measures to avoid it.
- Understand the diagnosis, nature and treatment of Non-Alcoholic Fatty Liver
   Disease & Alcoholic Hepatitis
- Evaluate and improve practice processes.
- Identify strategies for **effective time management**.
- Understand the elements of effective negotiating and decision making.
- Appreciate the role of physician testimony in a malpractice case as well as witness dos and don'ts.
- Understand the nature of **high conflict patients** and how best to interact with them.
- Explain effective **retirement planning** techniques and vehicles



# **FACULTY DISCLOSURES**

The individuals listed below have control over the content of *The 2021-22 Medical-Dental-Legal Update*. None of them have a financial relationship with a commercial interest whose product or services are discussed in the presentation(s) over which they have control:

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Dilip K. Moonka, MD, FAST, FAASLD, speaker or consultant for Gilead, Intercept and AbbVie.

# **FACULTY**

# Louis Kuritzky, MD

Louis Kuritzky, MD. Of Gainesville, Florida, is a board-certified, family practitioner and a certified Specialist in Hypertension with the American Society of Hypertension. He is clinical faculty at the Family Medicine Residency Program of North Florida Regional Medical Center in Gainesville and a clinical assistant professor emeritus at the University of Florida.

Dr. Kuritzky has given over 1,000 presentations to national and international medical audiences on dozens of clinical topics and has authored over 150 articles in journals including *New England Journal of Medicine*, *JAMA*, *Comprehensive Therapy*, *Hospital Practice*, *Consultant*, *Postgraduate Medicine*, *Journal of Pain and Palliative Care*, and *Patient Care*.

You may contact Dr. Kuritzky with any questions or comments at (352) 377–3193 or by email at lkuritzky@aol.com.



# LOUIS KURITZKY, MD

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# Things I Wish I'd Known Last Year

# Alternative Rx of Hypertension

A 62 y.o. man with stage 2 HTN (160/82) is reluctant to take prescription medication. Which intervention below might make a meaningful impact upon his BP

- a) Vitamin E 600 IU/d PO
- b) Coenzyme Q 60 mg PO
- c) Celecoxib (eg, Celebrex) 200 mg PO
- d) Bremelanotide 1.75mg SQ

# Coenzyme Q for HTN

Study: HTN pts (n=76)

- Rx: CoQ 60 mg b.i.d. vs placebo
- Rx Groups:
  - ◆HTN
  - Normotensive 'controls'

Outcome (at 12 weeks): SBP

Burke BE et al South Med J 2001;34(11):1112-1117

# Coenzyme Q HTN Baseline Characterteristics

	HTN CoQ	HTN Pbo	Control
Age	70	67	65
SBP mmHg	165	164	138
DBP mmHg	81	82	79
CoQ mg/mL	0.47	0.55	0.49

Burke BE et al South Med J 2001;34(11):1112-1117

# Coenzyme Q for HTN Outcomes

	HTN CoQ	HTN Pbo	Control
SBP mmHg	165→147 <b>*</b>	164→162	138→140
DBP mmHg	81→78	82 →82	79→79
CoQ mg/mL	0.47→2.69 <sup>*</sup>	0.55→0.53	$0.49 \rightarrow 2.50^{*}$

\* p< 0.01

Burke BE et al South Med J 2001;34(11):1112-1117

# Coenzyme Q for HTN Outcomes A Closer Look

- "The average reduction in SBP in the ... CoQ group after 12 weeks was 17.8 ± 7.3 mm Hg...."
- "Analysis of individual patient data revealed that....45% of patients were non-responders."
- In...responders, the average reduction in SBP was 25.9 ±6.4 mm Hg."

Burke BE et al South Med J 2001;34(11):1112-1117

# Reducing Smoking: How Much Benefit?

You are speaking to a new patient about smoking cessation. Taken aback, he says "But doc, I've cut down by more than 50% in the last two years and kept it up....isn't that good enough?" Your evidence based response should be

- a) Yes, risk of CVD is correspondingly ±50% lower
- b) Yes, but CVD risk reduction is only ± 25%
- c) No, cutting down has been shown NOT to help

# RESEARCH PAPER Health consequences of reduced daily cigarette consumption Aage Tverdal, Kjell Bjartveit Tobacco Control 2006;15:472-480. doi: 10.1136/tc.2006.016246

# Cutting Down Smoking: Benefits?

- Study: Prospective study (Norway) heavy smokers (n=51,210) who cut down by >50%
- Inclusion
  - Age at enrollment 20-49 years
  - Smoked >15 cigs/d at baseline
  - ♀ (n=24,959)
  - 6 (n=26,251)
- Exclusion: Known CHD; pipe smokers
- Followup 1974-1978 thru 2003 (mean 21.2 yrs)

Tverdal A, Bjartveit K Tobacco Control 2006;15:472-480

### Cutting Down Smoking: Benefits? **Reducers vs Sustained Mortality** p **Heavy Smokers RR** All-cause NS 1.02 (0.84-1.22) CVD 1.02 (0.75-1.39) NS **IHD** 0.96 (0.65-1.41) NS Lung Ca 0.66 (0.36-1.21) NS Smoking-related CA 0.86 (0.57-1.29) NS Tverdal A, Bjartveit K Tobacco Control 2006;15:472-480

# Cutting Down Smoking: Benefits? Conclusions

"Long-term follow-up provides no evidence that heavy smokers who cut down their daily cigarette consumption by >50% reduce their risk of premature death significantly."

Tverdal A, Bjartveit K Tobacco Control 2006;15:472-480

# Cutting Down Smoking: Benefits? Conclusions

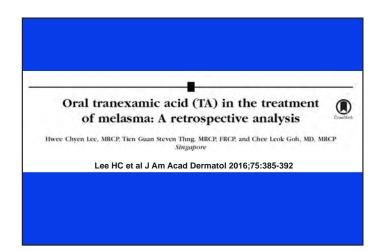
"...it may give people false expectations to advise that reduction in consumption is associated with reduction in harm."

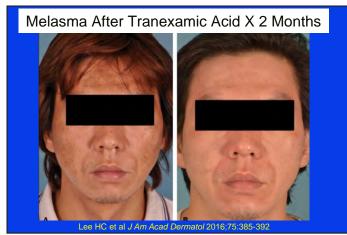
Tverdal A, Bjartveit K Tobacco Control 2006;15:472-480

## Cosmetic Complaint: Melasma

A 36 y.o. Asian male complains of scattered hyperpigmented macules on his face. Topical 'bleaching agents' and makeup have proven unsatisfactory. Which next step might help?

- A) Tranexamic acid PO
- B) Tamoxifen PO
- C) Zoledronic acid IV
- D) Amiodarone PO





# Melasma: Premises

- "Melasma can be psychologically and socially debilitating and Rx remains a challenge."
- Pathogenesis: Unknown
- Genetic predisposition

Lee HC et al J Am Acad Dermatol 2016;75:385-392

# Melasma: Tranexamic Acid

- Study: Melasma patients in Singapore 3º Care Derm clinic (n=561)
- Demographics:
  - ◆ ♀ (91.4%)
  - → ♂ (8.6%)
  - Mean age of onset = 45
  - Melasma duration = 6 years (median)
- <u>Rx</u>: PO tranexamic acid 250 mg b.i.d x 4 months (median)

Lee HC et al J Am Acad Dermatol 2016;75:385-392

# Tranexamic Acid for Melasma What About AEs?

"...one patient who developed DVT...was eventually found to have familial protein S deficiency and required warfarin."

Lee HC et al J Am Acad Dermatol 2016;75:385-392

# Tranexamic Acid for Melasma: Possible Confounders

- Oral contraceptives: 3.7%
- HRT: 1.1%
- IUD (type not specified): 0.4%

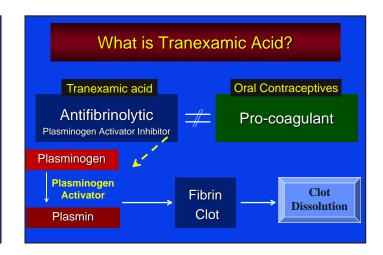
Lee HC et al J Am Acad Dermatol 2016;75:385-392

# Tranexamic Acid for Melasma: Previous Rx Topicals Lasers/Intense Pulsed Light Chemical Peels/Alternative Medicine 5.2% Lee HC et al J Am Acad Dermatol 2016;75;385-392

	Tranexamic Acid for Melasma:		
	Outcomes		
	Improved	89.7%	
	No Change	10.0%	
	Worse	0.4%	
	Mean Time to Response (months)	1.9	
	% improvement (mean)	56.9%	
	Relapse (Time in months)	27% (8.6)	
"However. 24.1% patients who used oral tranexamic acid as 1st-			
line Rx all showed improvement with a 100% response rate."			
Lee HC et al J Am Acad Dermatol 2016;75:385-392			

Tranexamic Acid
Some Reported Clinical Uses

Menorrhagia
Major Trauma: Internal Bleeding
Epistaxis
Dental Surgery
Hemorrhoidal bleeding
Hemoptysis (Inhaled)
Post Partum Hemorrhage
Orthopedic Surgery



Efficacy of Tranexamic Acid For Oral Surgery

Study: RDBPCT oral surgery pts (n=94)

Warfarin NOT stopped

Rx: tranexamic acid solution 4.8%

10 ml immediately post-op

10 ml q.i.d X 2 mins X 7 days

Outcome (Bleeding requiring Rx)

Rx group: None

Placebo group: 10 patients (p < 0.01)

Tranexamic Acid: A Way to Reduce Bleeding Associated with Dental Procedures

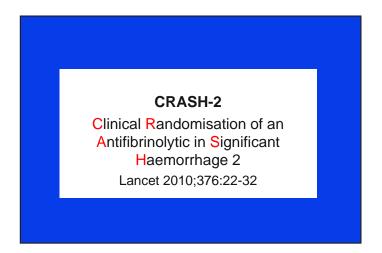
Dosing

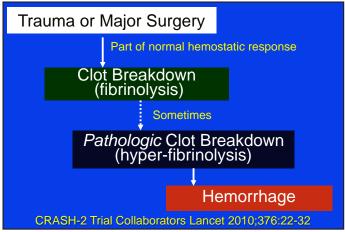
Tranexamic acid 5% oral solution rinse (500 mg/10 ml)

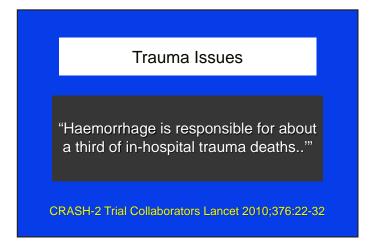
5 ml 5-10 mins pre-procedure

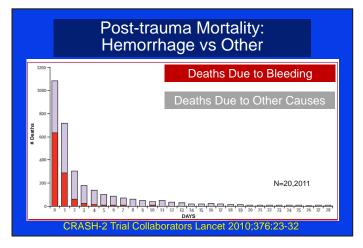
5 ml t.i.d.-q.i.d. X 24-48 hrs

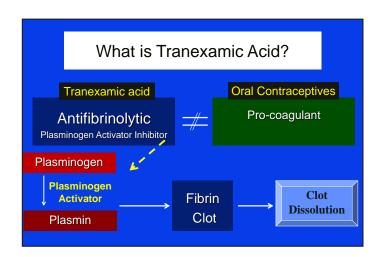
Douketis JD et al Chest 2012;141;e326-e350S



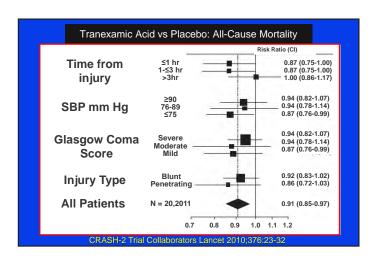


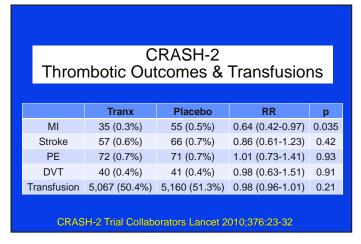






# Effects of Tranexamic Acid in Trauma Patients with Hemorrhage Study: RDBPCT trauma pts (n=20,211) Inclusion: SBP < 90 mm Hg and/or Pulse > 110 bpm and/or Considered at risk of significant bleed Within 8 hr of injury Rx: tranexamic acid IV 1 g load + 1 g 8hr infusion vs placebo CRASH-2 Trial Collaborators Lancet 2010;376;22-32





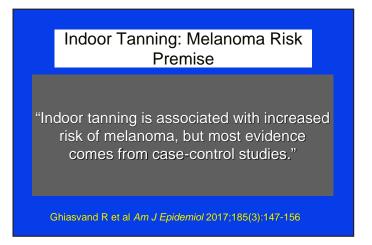
# The Allure of the Tanning Salon

Anna is a 20 y.o. student at Great Falls College MSU. Considering it is mid-winter, you are surprised by the generous tan that she has achieved by going to the local tanning salon. She wants to "look good for Volley Ball at the Spring Event". You should advise:

- A) Go for it: tanning enhances Vitamin D
- B) Go for it: tanning has no known AEs
- C) Not so fast: risk of melanoma is increased
- D) Not so fast: risk of Vitamin D toxicity is increased

# For Women, It's All HER Fault





# So What's Wrong with a Case-Control Study?

Case-control study

- Observational (no intervention)
- Within an otherwise similar population:
  - Group A: has the outcome, e.g., lung CA
  - Group B: did not get the outcome (lung CA)
- The frequency of a perceived RF (e.g., smoking) in Group A is compared to group B

Wikipedia accessed Jan 9, 2020

# So What's Wrong with a Case-Control Study?

"They require fewer resources but provide less evidence for causal inference than a randomized controlled trial."

Wikipedia accessed Jan 9, 2020

# Indoor Tanning: Melanoma Risk

- Study: The Norwegian Women and Cancer Study (n= 141,045)
- Method: Prospective Cohort Study 1991-2012
- Variables related to indoor tanning:
  - age at initiation
  - duration of use
  - dose response
- Outcome of interest: melanoma

Ghiasvand R et al Am J Epidemiol 2017;185(3):147-156

# Indoor Tanning: Melanoma Risk (Based on 861 cases of melanoma)

	RR	CI	р
# sessions Tertile #1 vs Tertile #3	1.32	1.08-1.63	0.006
Initiated age <30	1.31	1.07-1.59	< 0.05

Moreover, women who started indoor tanning prior to 30 years of age were 2.2. years younger at Dx, on average, than never users."

Ghiasvand R et al Am J Epidemiol 2017;185(3):147-156

# Indoor Tanning: Melanoma Risk

"This cohort study provides strong evidence of a dose-response association between indoor tanning and risk of melanoma and supports the hypothesis that vulnerability to the harmful effects of indoor tanning is greater at a younger age."

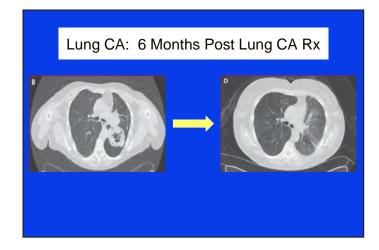
Ghiasvand R et al Am J Epidemiol 2017;185(3):147-156

# The Endless Struggle For Beauty

Linda is 59 y.o. woman who recently diagnosed with stage 4 lung CA. She tends to keep her hands hidden because she is "embarrassed by my thick fingers." She is undergoing chemo- and radiation therapy. What can you prognosticate about her clubbing?

- A) It will not change
- B) It will worsen despite lung CA Rx
- C) It may improve with lung CA Rx

# Clubbing: 6 Months Post Lung CA Rx Ciment AJ, Ciment L NEJM 2016;375:12:1171-1171



# Case: Charles M: Reluctant to Start Urate Lowering Therapy

- Charles is a 52 y.o. man who has just completed a course of anti-inflammatory treatment for acute podagra (gout: great toe). His uric acid level was moderately elevated (8.6 mg/dL). He attributes the attack to an ill-chosen drinking binge with his buddies, and hence declines LTULT (Long term urate lowering therapy). What are the chances that this will be his only attack of gout in his lifetime?
  - a) <10%
  - b) 10-20%
  - c) 30-40%
  - d) Its about an even 50:50 chance that he'll get another attack

# Charles: Gout Attack #2

- Charles returns for a 2nd occurrence of podagra 3 years later. Although high-dose NSAID (naproxen 500 mg b.i.d.) promptly resolved his last attack, he developed severe GI distress from it despite co-therapy with a PPI. What alternative treatment has shown comparable efficacy?
- A) topiramate 100 mg b.i.d.
- B) prednisone 30-35 mg/d
- C) montelukast 10 mg qd
- D) amitriptyline 25 mg b.i.d.

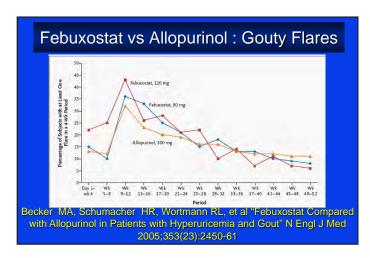
# Charles: Gout Attack #3

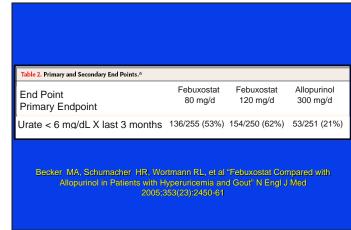
- 2 years later, Charles returns with an attack of gout involving his forefoot and ankle. He is now motivated to try and prevent future flares. Which agent has been shown to best consistently maintain uric acid levels< 6.0 in clinical trials</li>
- A) allopurinol
- B) probenecid
- C) colchicine
- D) febuxostat

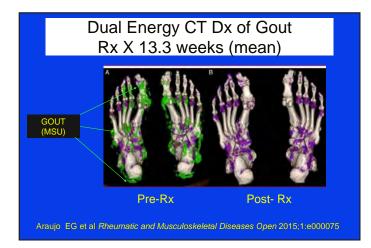
# 'New' Colchicine Dosing for Acute Gout

- TRIAL: Colchicine 1.2 mg + 0.6 mg 1 hr later (Total dose = 1.8 mg) vs Colchicine 1.2 mg + 0.6 mg X 6 (Total dose = 4.8 mg)
- <u>OUTCOME</u>: Equal efficacy, but lower dose much better tolerated

Terkeltaub RA Semin Arth Rheum 2009;38:411-419







# Can This Marriage Be Saved: Non-Compliant OSA

Melissa's 48 year old husband has OSA. Despite multiple attempts at CPAP, which does eliminate his operatic class snoring, he cannot tolerate it. Which simple intervention is likely to help?

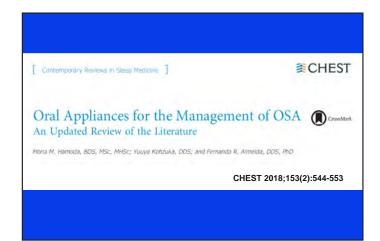
- A) Surgical Uvulopalatoplasty
- B) Inhaled corticosteroids
- C) A mandibular advancement device
- D) Voice training to convert opera snoring to R & B

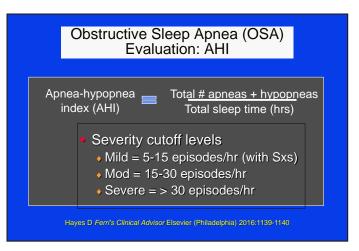


# Oral Appliances in the Management of Obstructive Sleep Apnea

Jing Hao Ng, BDS (Singapore), MDS Orthodontics (Singapore), MOrth RCS (Edinburgh, UK)\*, Mimi Yow, BDS (Singapore), FDS RCS (Edinburgh), MSC (London) (Orthodontics), FAMS (Craniofacial Orthodontics)

Sleep Med Clin 2019;14:109-118





First: The 'Bottom Line' MAD (Mandibular Advancement Devices)

"...the latest guidelines recommend the use of [MAD] for primary snoring and as an alternative to CPAP for those who prefer [MAD] or those who refuse to use or are unable to tolerate CPAP."

Hamoda MM et al CHEST 2018;153(2):544-553

MAD: Does OSA Severity Make A Difference?

"The 2015 guidelines do not specify a particular disease severity of [MAD] use....."

Hamoda MM et al CHEST 2018;153(2):544-553

# Efficacy vs Effectiveness Efficacy: How well an intervention works in ideal circumstances (e.g., clinical trial) Effectiveness: How well an intervention works in 'real world' settings Hamoda MM et al CHEST 2018;153(2):544-553

# "RCTs comparing CPAP with [MAD] and varying in baseline OSA severity from mild to severe have shown similar results in improving Sx such as sleepiness, QOL, and simulated driving performance." Hamoda MM et al CHEST 2018;153(2):544-553

# MAD vs CPAP CVD Outcomes

"Compared with CPAP, the gold standard therapy, oral appliances are less efficacious but are more accepted and tolerated by patients, which in turn, may lead to a comparable level of therapeutic effectiveness."

Hamoda MM et al CHEST 2018;153(2):544-553

# MAD vs CPAP: Outcomes

"Compared with CPAP, the gold standard therapy, oral appliances are less efficacious ....."

Hamoda MM et al CHEST 2018;153(2):544-553

### MAD vs CPAP: Efficacy Comparison Outcome CPAP **Oral Appliance** ↓ 8.43 AHI/hr > AHI Oxygen Saturation ↑ 3.11% SaO<sub>2</sub> **ESS** > 0.8 points Function: FOSQ Function: SF-36 Mortality (Severe OSA) Compliance 1.1 hr/night > Outcome Normal Mild-Moderate Severe 16-24 **Epworth Score** 0-9 11-15 Ng JG et al Sleep Med Clin 2019;14:109-11

# I Didn't Show You This Line FIRST

"In terms of CV outcomes, there were no differences between the two Rx with respect to short-term effects on BP, and reducing the risk of mortality in patients with severe OSA."

Hamoda MM et al CHEST 2018;153(2):544-553





# **Deep Oropharyngeal Questions**

According to a recent CNN publication (1/10/2020), commenting on a just-published article in a well-respected USA journal, which question should each of us be considering about our tongue?

- A) Are my lingual papillae clean?
- B) Can I touch my nose with my tongue?
- C) Can I furrow my tongue into a "U"?
- D) Do I have a fat tongue?

# About OSA and Weight Loss

Obesity and overweight are associated with OSA. Does weight loss help, as measured by AHI improvements?

- A) Yes
- B) No

# About OSA and Weight Loss

Weight reduction improves the AHI. Why?

- A) By reducing abdominal wall fat pad pressure
- B) By reducing sympathetic tone
- C) By increasing metabolism of free fatty acids
- D) By altering oropharyngeal structural configuration

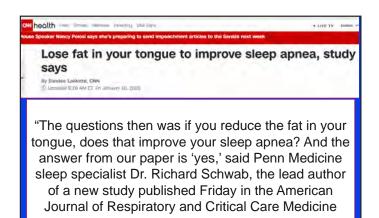
# Deep Oropharyngeal Questions

 $(\mbox{CNN})-\mbox{Have}$  you ever asked yourself: Do I have a fat tongue?

It's not a[n] idle query. If you are one of the one billion people globally who suffer from OSA, having a fat tongue could be a key reason you snore, choke, gasp or stop breathing periodically during the night, ruining your sleep and potentially your health.

CNN Health

nttps://www.cnn.com/2020/01/To/neatin/fongue-tat-sieep-apnea-weiiness/index.ntm Accessed Jan 10, 2020



Effect of Weight Loss on Upper Airway Anatomy and the Apnea Hypopnea Index: The Importance of Tongue Fat

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Brendan T. Keenan, M.S. 2-8

Andrew Wiemken, M.P.H. 2

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et al

# OSA & Tongue Fat Premise

"Why obesity is associated with OSA, why weight loss improves OSA, and why weight gain exacerbates OSA remain unanswered fundamental questions."

Wang SH et al Am J Resp Crit Care Med 2020; January 10

# OSA, Weight Loss & Tongue Fat Premise

"For example, in the Wisconsin Sleep Cohort, a 1% ↑/↓ in body weight was associated with a corresponding 3% ↑/↓ in AHI and a 10% weight gain was associated with a 6-fold ↑ risk of developing an AHI > 15 events/hr."

Wang SH et al Am J Resp Crit Care Med 2020; January 10

# OSA, Weight Loss, & Tongue Fat

- Study: Obese OSA Patients (n= 67)
- Intervention: weight loss
  - DPP model (n= 49): ↓5% -10% weight by diet, exercise, & behavior modification
  - Bariatric (n = 18): sleeve, bypass, banding
- Outcome (at 6 months): AHI change in relation to weight loss and tongue fat

Wang SH et al Am J Resp Crit Care Med 2020; January 10

# OSA, Weight Loss, & Tongue Fat Results

- Mean weight loss = 9.5%
- Weight loss → ↓tongue fat
- Tongue fat ↓ correlated with AHI reductions
- Minimum weight ↓to affect tongue fat: 2.5%
- "Reduction in tongue fat volume was the primary upper airway mediator of the relationship between weight loss and AHI improvement."

Wang SH et al Am J Resp Crit Care Med 2020; January 10

# OSA, Weight Loss, & Tongue Fat: Results Pre Weight = 158kg BMI = 44.8 BMI = 121 Marcle MRI Volumes Tongue Fat = 14126mm³ Tongue Fat = 7337mm³ Total Tongue = 111506mm³ Total Tongue = 108227mm³ Wang SH et al Am J Resp Crit Care Med 2020; January 10

# Off-Label Issues

OFF-LABEL content in this presentation:

- 1) Tranexamic Acid for Melasma
- 2) Cancer chemotherapy for clubbing

# **SELF EVALUATION**

# Things I Wish I'd Known Last Year

- 1. Which of the following supplements has been shown to reduce BP?
  - a. Niacin
  - b. Folic Acid
  - c. Coenzyme Q
  - d. Biotin
- 2. Which treatment has been shown to improve melasma in Asians?
  - a. Vitamin E
  - b. Methotrexate
  - c. Tranexamic Acid
- 3. In a clinical trial comparing allopurinol 300 mg/d to febuxostat 120 mg/d, for the endpoint of ability to maintain target uric acid levels(<6.) in the last 3 months of the trial
  - a. Allopurinol was superior to febuxostat (twice as efficacious)
  - b. Allopurinol and febuxostat were equivalent
  - c. Febuxostat 120 mg/d was superior to allopurinol 300 mg/d (three times as efficacious)
- **4.** Are mandibular advancement devices (MAD) helpful for snoring?
  - MAD show little efficacy compared to CPAP
  - b. MAD show greater efficacy than CPAP
  - c. Both tools have similar efficacy, though MAD is typically better tolerated
- **5.** Weight change is associated with changes in AHI (apnea-hypopnea index) scores. Which anatomic factor has recently been recognized to contribute to this
  - a. Changes in weight are associated with meaningful change in the amount fat in the tongue.
  - b. CPAP functions better with choanae expansion associated with weight loss
  - c. The ketosis associated with weight loss enhances pharyngeal tone
  - d. Diaphragmatic excursion timing is improved by abdominal girth reduction

Answer Key: 1. C, 2. C, 3. C, 4. C, 5. A

# **FACULTY**

# Carole C. Foos, CPA

Carole C. Foos, CPA of Cincinnatti, Ohio is a partner in OJM Group, a physician focused financial planning and asset management firm, and a Certified Public Accountant (CPA) offering tax analysis and tax planning services to the firm's clients. Carole has over 25 years of experience in accounting, tax planning and financial consulting. She is a co-author of numerous books for physicians, including Wealth Management Made Simple and newly published Wealth Planning for the Modern Physician: Residency to Retirement. Carole has authored numerous articles and presented many lectures, webcasts, and podcasts on tax planning and wealth management.

You may contact Ms. Foos with your questions and comments at 513-309-3946, or by email at Carole@OJMGroup.com.





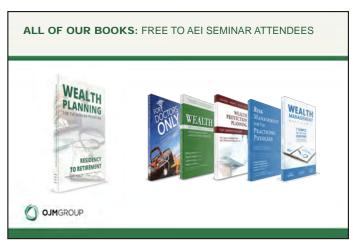
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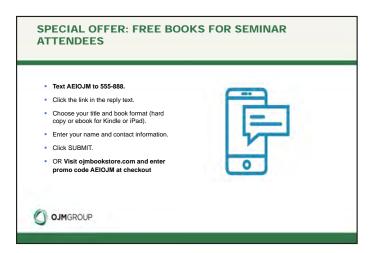
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Other offices in Arizona and Florida

# Understanding Practice Financial Statements - Parts 1 & 2 Carole C. Foos, CPA

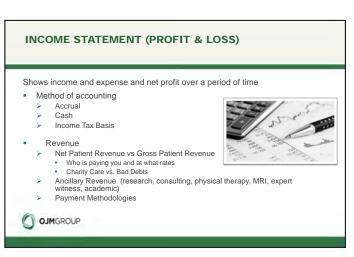






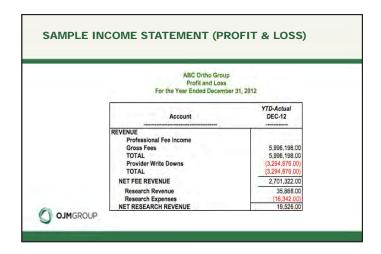


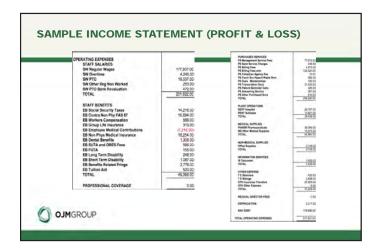


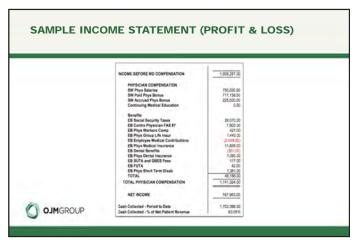


# ACCRUAL BASIS VS CASH BASIS ACCOUNTING Accrual Basis Record revenue when earned (bills generated or service provided) Record expenses when incurred Expenses matched to revenue Cash Basis (used by most medical practices) Record revenue when collected Record expenses when paid Income Tax Basis Similar to cash basis Accrual basis for retirement plan contributions Capitalize prepaid expenses that exceed 12 months

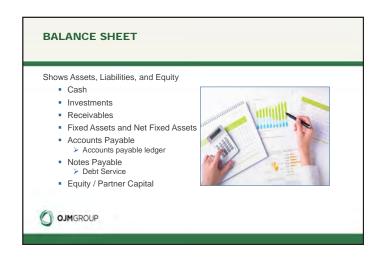
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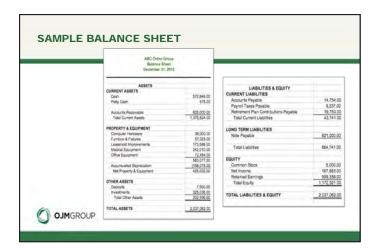


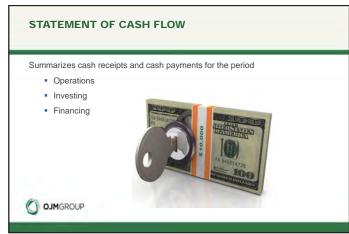


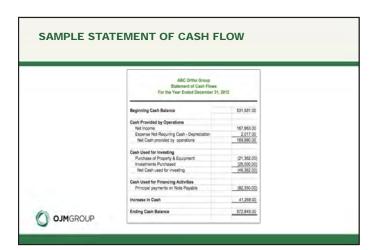


# INCOME STATEMENT (PROFIT & LOSS) Shows income and expense and net profit over a period of time Expenses Salaries and benefits Supplies and Outside Services All other expenses Non-cash expenses Depreciation and Amortization Fixed costs vs. Variable costs

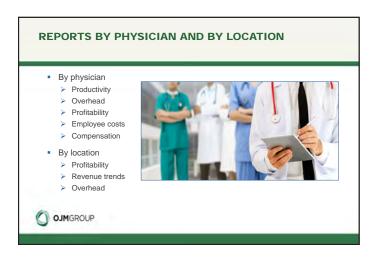


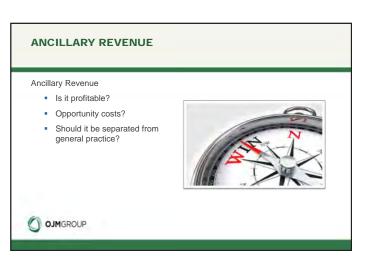












### **BUDGETS**

- Good budget development and analysis helps monitor expenses
  - Check budget vs. actual on a regular basis
- · Will help determine when to add staff / equipment
- Important for your cash flow and retirement planning
- Helps in determining exit strategy





## **CASH FLOW AND EXPENSE REVIEW**

Review your cash and expenses twice a month by reviewing a payables ledger, your income statement or your cash flow statement

- This will help you:
  - Understand regular and irregular cash flows
  - Monitor cash to ensure you have appropriate cash for operations
  - Focus on vendors whose prices are increasing
  - > Review and approve bills to avoid late fees
- Review payroll expenses
  - Are you paying overtime that could be avoided?
  - Are employee costs by physician out of line?



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### PERFORMANCE INDICATORS

- Review financials monthly to look for performance indicators
  - "Overhead rate" is the ratio of operating expenses to net revenue and may be a good indicator of how well the practice is operating
  - Analyze profit and overhead by location
  - Analyze by physician
- Review Accounts Receivable
- Are there collection issues with a particular payer?
- Are there excessive write offs?
  - . If so, is there appropriate follow-up for denied claims?
  - · Are claims being properly coded?
  - Are there appropriate attempts to collect from insurers and patients?





### **TRENDS**

Compare income and expenses over the last several

- Has revenue increased or remained flat?
- How have changes in profit corresponded to revenue changes?
- Are expense increases justified?
- Would it be more efficient to outsource non-key areas?
- Are your marketing efforts bringing in additional
- Are there expenses that can be reduced through relationships with your local medical society?



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### **OVERALL FINANCIAL HEALTH**

- At year end, review the income statement, balance sheet and cash flow statement.
  - Annual statements will include adjustments for depreciation, profit sharing and pension plan expenses as well as for any outstanding
- Compare the annual statements to prior years to evaluate growth and changes.
- Additional reports should also be reviewed annually including collections, receivables, budgets and compensation.
- These reports can also be compared against industry benchmarks.
- Review insurance contracts at this time as you review net patient revenue per carrier.



### **BUSINESS PLAN AND PRACTICE VALUE**

- Use your financial statements to evaluate where you are in meeting strategic goals
  - Do you have a strategic business plan for the next 3, 5 or 10 years?
  - Is revenue growth on track for the plan?
  - > Are profits where they should be according to your strategic plan?
  - > Have your assets kept pace? Have you paid down liabilities?
  - > What is your practice worth today? Is the value growing according to plan?
- Practice Value
  - Multiple of gross revenue
  - > Multiple of net revenue
  - > Adding back owner compensation and non-essential expenses



### **TAX PLANNING**

- Your financial statements are a vehicle that your CPA can utilize to maximize tax planning opportunities.
  - > Prior to year end
    - Defer billing?
    - · Speed up payment of expenses?
    - · Write off equipment



### **INTERNAL CONTROL**

- The polices and procedures that management puts in place to help protect the business and achieve desired financial results.
  - These practices:
    - Help to create more efficient operational procedures
    - · Help to stay compliant with federal, state, and local requirements
    - · Help to ensure that your financial information is as accurate and reliable as possible
    - Help to protect your business from fraudulent activities or unnecessary loss
- Lack of good internal controls can increase business liability vs bank liability if there is an error in a banking transaction OJMGROUP



INTERNAL CONTROL

Separation of Duties - the principle that no single individual is given authority to execute two conflicting duties. Examples:

- Accounts Payable
  - Those entering invoices should not also be responsible for signing checks or making electronic
    payments or setting up vendors in the AP system
     The person who signs the checks should not also be responsible for reconciling cash balances
- Consider requiring 2 signatures on checks over a certain amount.
  Initiate positive pay with your bank to help reduce the risk of fraudulent checks being drafted.
- Accounts Receivable
  - The person responsible for opening mail and making a bank deposit should not be the same person that records receipts in the AR system.
- Pavroll
- The person who processes payroll should not also do bank reconciliations.
  Payroll should be periodically reviewed for accuracy and fraudulent activity



### **CONTACT ME**

- Schedule a free no-obligation consultation
- Contact the presenter:
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### **DISCLOSURE**

Nothing contained in this commentary is intended to constitute personalized legal, tax, accounting, securities, or investment advice, nor an opinion regarding the appropriateness of any investment, nor a solicitation of any type. All investments carry a certain risk, and there is no assurance that an investment will provide positive performance over any period of time. An investor may experience loss of principal. Investment decisions should always be made based on the investor's specific financial needs and objectives, goals, time horizon, and risk tolerance. The asset classes and/or investment strategies described may not be suitable for all investors and investors should consult with an investment advisor to determine the appropriate investment strategy. Past performance is not indicative of future results. Indices are unmanaged and their returns assume reinvestment of dividends and do not reflect any fees or expenses. It is not possible to invest directly in an index. Information obtained from third party sources are believed to be reliable but not guaranteed. All opinions and views constitute our judgments as of the date of writing and are subject to change at any time without notice.



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# SELF EVALUATION

# **Understanding Practice Financial Statements - Parts 1 & 2**

- 1. T/F The Accrual Basis method of accounting records expenses when paid.
- **2.** T/F Excessive write offs of receivables may be a result of coding errors.
- **3.** Bi-monthly review of cash and expenses will help with which of the following:
  - a. Understand irregular cash flows
  - b. Ensure appropriate levels of cash to fund operations
  - c. Review bill payment to avoid late fees
  - d. All of the above
- **4.** In order to determine if revenue growth has resulted in increased profit, which of the following should be reviewed?
  - a. Current income statement
  - b. Current balance sheet
  - c. Current income statement compared to previous income statement
  - d. Cash flow statement
- **5.** T/F One way to value a medical practice is based on a multiple of gross revenue.
- **6.** T/F The person entering invoices into the accounting system should also sign checks and enter new vendors.
- 7. T/F The person who processes payroll should not also do the bank reconciliations.
- **8.** Financial statements can assist your CPA in tax planning by:
  - a. Determining if profits are such that billing should be deferred at year end
  - b. Determining if there are bad debts that should be written off
  - c. Planning for needed year-end owner compensation adjustments
  - d. All of the above
- **9.** T/F Overhead rate is the ratio of operating expenses to gross revenue.
- **10.** T/F Development of a good budget will not help monitor expenses.

**Answer Key:** 1. F, 2. T, 3. D, 4. C, 5. T, 6. F, 7. T, 8. D, 9. F, 10. F

# **FACULTY**

# Joseph W. Shannon, Ph.D.

Joseph W. Shannon, Ph.D., of Columbus, Ohio, has a doctorate in counseling psychology and over 30 years of clinical experience as a psychologist, consultant and trainer. An expert in understanding and treating a broad range of mental disorders, he has appeared on several television programs including CBS', *Morning Show*, and *PBS: Viewpoint*. Dr. Shannon has developed and presented training programs for medical, allied medical, mental health and substance abuse professionals in the United States and Canada consistently earning exemplary ratings for presenting key insights and practical approaches with clarity, enthusiasm and humor.

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# Understanding and Effectively Dealing with High Conflict People

This program is designed to help you deal with noxious people. These individuals have a remarkable ability to precipitate conflict and disharmony in virtually all of their relationships, including their relationships with health care providers. These "high-conflict" people provoke stress-related illnesses, diminish self-worth, keep us awake and upset, enable bad habits and typically lack insight or remorse.

In this new 6-hour program, learn how to reason with "unreasonable" people and develop the art of the possible when dealing with the "impossible" individual. Emphasis will be placed on practical strategies and applications for medical, dental and behavioral settings.

Participants completing this program should be able to:

- 1. Describe the diagnostic criteria for noxious or high-conflict individuals, including disorders of personality, mood, anxiety, anger modulation and substance abuse;
- 2. Discuss empirical findings regarding the etiology of the noxious personality, including aspects of social reasoning, atypical brain chemistry, pathological parenting style and the effects of early childhood trauma; and
- 3. List several strategic, evidence-based approaches that health care professionals can employ in order to deal effectively and ethically with noxious individuals while maintaining their own sense of balance and psychological health.

# I. Noxious People: Common Characteristics

- A. Long history of interpersonal conflict, typically dating back to youth
- B. Disruptive, abusive or otherwise pathological childhood relationships
- C. A tendency to view relationships in all-or-nothing, black-or-white terms
- D. Persistent drive to be validated (center of attention)
- E. Tendency to create "psychodramas"
- F. Intense emotions over-rule rational thinking
- G. Mistrust that can border on paranoia
- H. High level of aggressive energy
- I. Profound problems with judgment and/or impulse control
- J. Unconscious distortions and delusions
- K. Will trigger intense confusion, conflict or counter-transference in the care-giver
- L. As they get older, they are prone to be litigious.

# M. Common defenses:

- 1. Splitting (e.g., all-or-nothing thinking)
- 2. Projection
- 3. Persistent drive to control/manipulate others
- 4. Blaming others for problems they create
- 5. Extremely defensive about any negative feedback
- N. High probability of being diagnosed with an Axis I disorder, e.g. bipolar disorder, agitated depression, obsessive-compulsive disorder
- O. High probability of being diagnosed with an Axis II personality disorder, e.g., borderline or narcissistic disorders

## II. Noxious Behavior: Common Types

- A. Inappropriate expression of anger:
  - 1. <u>Aggressive</u> e.g., office bullying

## Understanding and Effectively Dealing with High Conflict People

- 2. Passive-aggressive e.g., protracted divorce litigation
- 3. <u>Domestic violence</u> e.g., 1 out of every 3 women and 1 out of every 6 men will be abused by a domestic partner at some point in their life.
- 4. Aggression/Violence fueled by:
  - a. Stress/lack of exercise/poor diet
  - b. Substance abuse
  - c. Atypical brain chemistry
  - d. Mental illness/treatment non-compliance
  - e. Toxic relationship dynamics
  - f. Desire for revenge
  - g. Impulsive anger
  - h. Desire to assert a political, religious or other point of view
- B. Boundary violations

physical, emotional, sexual, spiritual abuse

C. Narcissistic behavior

entitlement/"special"/selfishness

D. Fear-based

anxiety-driven, e.g., O.C.D.

E. <u>Ignorance/Fear-based</u>

bigotry, prejudice, homophobia

- F. <u>Self-abusive behavior</u>
  - 1. Cutting
  - 2. Burning/branding
  - 3. Compulsive skin-picking
  - 4. Self-strangulation
  - 5. Bone-breaking
  - 6. Excessive tattooing/body piercing

# III. Noxious Behavior: Causes/Correlates

- A. Dysfunctional family dynamics:
  - 1. Child's needs, feelings, wants, observations and reactions are ignored/invalidated by parents > NEGLECT
  - 2. Family shame or secret
  - 3. At least one parent has a serious psychiatric problem and/or substance abuse problem.
  - 4. Boundaries are blurred or violated:
    - a. Physical abuse
    - b. Psychological abuse
    - c. Spiritual abuse
    - d. Sexual abuse
  - 5. Poor role models for healthy communication, intimacy and problem-solving
  - 6. Children tend to develop <u>compulsive</u> behaviors to lessen pain, develop a sense of control, produce positive feelings or block shame.
  - 7. Family environment is stressful for the child:
    - e.g., parents may have a "crisis-orientation" to life
    - e.g., active physical, emotional, sexual abuse
    - e.g., the impact of poverty
    - e.g., parents have abdicated responsibility and a child is expected to take on the role of parent
    - e.g., child is punished/rewarded arbitrarily and cannot predict consequences of behavior
    - e.g., parent over-indulges the child materially to compensate for emotional neglect.

# B. Biological factors:

- 1. Biogenetic influences
  - a. Atypical brain chemistry, e.g., insufficient levels of serotonin and dopamine
  - b. Inherited mental illness, e.g., bipolar disorder
  - c. Inherited characterological behaviors, e.g., explosive temper/volatility

- 2. Pre-birth or post-birth trauma to the central nervous system, e.g., fetal alcohol syndrome
- 3. Witnessing violence in the home, neighborhood or school can adversely affect brain chemistry.
- 4. Lousy diet/lack of physical exercise
- 5. Substance abuse
- 6. Hormonal changes/imbalances
- 7. Food/Drug allergies
- 8. Undiagnosed/untreated medical conditions, e.g., thyroid or pancreatic disease

# C. Poor learning/profound social skill deficits

- 1. Reinforcement contingencies, e.g., being rewarded for inappropriate behavior and punished for healthy behavior
- 2. Poor/inadequate role models, e.g., violent role models
- 3. Profound lack of social intelligence, e.g., lack of compassion/empathy

# IV. Special Focus: Personality Disorders

- A. Definition of "personality"
- B. "Personality Disorders"
- C. Common characteristics:
  - 1. Adaptive inflexibility
  - 2. Vicious cycles
  - 3. Tenuous stability
  - 4. Profound denial
  - 5. Pathological problem solving
  - 6. Intense transference/counter-transference
  - 7. Highly resistant to treatment

## D. Noxious personality types:

- 1. <u>Paranoid</u> they are tense, guarded, suspicious, self-righteous, rigid, petty, vengeful and litigious. They hold grudges and are prone to primitive, overt violent acts of aggression. They rarely seek professional treatment and have a very high incidence of domestic violence (as the perpetrator) and substance abuse.
- 2. <u>Anti-Social (Sociopathic)</u> they are pervasively dishonest, manipulative, exploitative and disloyal. They have virtually no conscience and experience little or no remorse when they violate rules, behave unlawfully or shatter the lives of others. They are capable of experiencing intense insecurity and anxiety and tend to assuage their insecurity by raising yours. They do not seek treatment voluntarily, have a high rate of substance abuse, A.D.H.D. and are likely to engage in criminal behavior.
- 3. <u>Borderline</u> they straddle the border between sanity and psychosis; "they have egos as fragile as spun sugar (and) psyches that are irretrievably fragmented, like a jigsaw puzzle with crucial pieces missing," they have profound problems with affect regulation and impulse control; their judgment is typically impaired and they will engage in very primitive, oftentimes self-destructive behavior when emotionally upset or frustrated. Others tend to perceive individuals with B.P.D. as frightening black holes of need who quickly erupt in a rage if their dependency needs are in any way thwarted. B.P.D. individuals have a high incidence of substance abuse, self-mutilation and suicide. Prognosis for recovery is good with the proper treatment.
- 4. <u>Histrionic</u> they are teen-agers trapped in adult bodies: rapidly-changing but ultimately shallow moods; pathologically vain and flirtatious; pervasive need to be the center of attention; they demand constant re-assurance and immediate gratification of their every want/need. As they age, they go out of their way to look and act significantly younger than their chronological age. Multiple plastic surgeries are the norm as is multiple marriages and divorces. They are typically referred to treatment by medical doctors; histrionic patients have the highest incidence of psychosomatic/psychogenic pain and other illness. Prognoses for recovery uncertain.

## 5. Nacissistic (two sub-types)

- a. <u>Treatable type</u> they are superficially nice, personable but have a severe <u>emotional wound</u> (e.g., sexual abuse) that drives them; they tend to be passive-aggressive, inordinately sensitive to criticism and inordinately needy of praise/validation from others. While capable of empathy, they tend to be pretty self-absorbed and self-centered; they have a high risk for addictions to assuage shame/low self-esteem/depression. They are also prone to jealousy/envy.
- b. <u>Untreatable/Malignant type</u> these folks truly believe they are superior to just about everybody else on the planet. Accordingly, they demand constant adulation and "special" treatment everywhere they go. They have fantasies of perfection, may be pre-occupied with envy and typically have an insatiable need for power, wealth, prestige and attention. They are excessively sensitive to shame and embarrassment. If you work for them, they will take credit for

<u>your</u> successes and blame you for <u>their</u> failures. When confronted with their short-comings, they will quickly become hostile and defensive and will project blame on to people and circumstances outside themselves. High risk for addictions, sado-masochistic sex and white-collar crime; may have psychopathic tendencies.

- 6. <u>Compulsive/Perfectionistic</u> they can be stiff, perfectionistic, aloof, unemotional, unempathic, overly conscientious and controlling; they often have difficulty seeing the "bigger picture" and can become pre-occupied with details. They are riddled with free-floating anxiety and tend to keep this at bay by creating a meticulously-ordered, efficient and, at times, beautiful environment which belies their internal pain/distress. They can be rigid, unforgiving and unyielding when dealing with interpersonal conflict; they don't like or tolerate "mess". They are prone to workaholism and other addictions; also prone to severe depression at mid-life; good prognosis for recovery.
- 7. Passive-Aggressive they are inordinately fearful of anger and conflict and tend to deal with their own angry/hurt feelings in covert, often "sneaky" ways; they are exquisitely sensitive to being manipulated or controlled: any request you make of them will likely be seen as an attempt to manipulate/control them and will be resented. They are notoriously late for appointments and other time commitments. They frequently express irritation by brooding, complaining, sulking or by being deliberately inefficient. In more intimate relationships they will withhold affection or sex to "punish" the loved one, but never be open/clear about the source of their upset. Poor prognosis for treatment, largely due to the fact that they derive pleasure/a sense of superiority by being unforgiving.

# V. Special Focus: Other Sources of Noxious Behavior

- A. <u>Mood-Disordered</u>: Minor and Major Depression and Bipolar-disordered individuals; If untreated, these conditions can have a pervasively negative impact on mood, cognition, impulse control, judgment and social behavior. They can also lead to a host of psychosomatic illnesses, including chronic physical pain, eating disorders, cardiovascular disease and severe gastrointestinal distress.
- B. <u>Anxiety-Disordered</u>: Generalized anxiety, pathological perfectionism, obsessive-compulsive disorder; all of these conditions can impair emotional, cognitive and social functioning. "Neurotic stupidity," a common characteristic of anxiety-based disorders, can precipitate vicious cycles of maladaptive behavior and impair insight and social awareness.
- C. <u>Post-Traumatic Stress Disorder (PTSD)</u>: Horror frozen in memory; intrusive thoughts, dreams and feelings and the risk of secondary, "vicarious" PTSD in caregivers who witness trauma.

# VI. <u>De-Toxification Strategies</u>

- A. Take excellent care of you:
  - 1. Diet, exercise
  - 2. Daily meditation/prayer
  - 3. Balance work/play/spiritual life/social support
  - 4. Have you been "shoulding" on yourself?
  - 5. Learn the basics of Active Empathic Listening
  - 6. Learn the basics of assertiveness, e.g., D-E-S-K model
  - 7. Ask yourself: "What is my piece of this noxious situation?", e.g., are you enabling this person?
- B. What is the nature of the noxious behavior?
  - 1. Inappropriate expression of anger?
  - 2. Boundary violation?
  - 3. Abuse of power/control?
  - 4. Behavior related to obvious mental illness? -e.g., agitated depression, bipolar disorder, personality disorder, etc.
  - 5. Behavior related to substance abuse?
  - 6. Behavior related to misunderstanding, clash of cultures or some other aspect of communication?
  - 7. Behavior related to individual's anxiety, fear, ignorance, prejudice?
- C. What are <u>your</u> feelings about this behavior? anger, outrage, fear, intimidation, disgust, etc.
- D. What are <u>your</u> thoughts/beliefs/assumptions about the individual and his/her behavior? e.g., "he said that just to embarrass me..."
- E. Talk about what you've experienced with a colleague, friend, counselor or supervisor.
- F. Develop a plan for dealing with the noxious/stressful situation, especially if the noxious behavior is repetitive/part of a larger pattern.

### 1. Assertive Model:

- a. Identify the specific behavior which has upset you.
- b. Ask yourself what feelings you have about the behavior in question.
- c. Wait at least <u>24 hours</u> before confronting the other person with their behavior. During this period of reflection ask yourself (and others) how best to handle the situation.
- d. Pick a time that is convenient for both you and the other individual and express your concern.
- e. Lead with an empathetic or affirming statement.
- f. Use the "D-E-S-K" model to express your concern/feeling.
- g. Negotiate a resolution to the problem once you feel the other person understands the issue/your concern.
- h. Follow through with the agreed-upon changes in behavior.

## 2. Other strategies:

- a. Paradoxing/Fogging e.g., "That's interesting." (When inwardly you disagree)
- b. Work at accepting the <u>person</u> while not liking their toxic behavior.
- c. Find something to respect and admire about the toxic individual; let them know about this in a genuine, affirming way.
- d. Try to get a better sense of what "sets the other person off"; avoid these buttons, if possible.
- e. Keep your distance from those who seem unsafe; see your fear as a "gift" or warning sign.
- f. Set clear, <u>unambiguous limits</u> with inappropriate behavior; make it clear that you will <u>not</u> tolerate this and will seek help if the situation does not change.
- g. If you feel you are in <u>danger</u>, notify appropriate authorities; take whatever reasonable steps necessary to <u>ensure your safety</u>.

### VII. Treatment For the Noxious Individual

### A. Treatment components/modalities

- 1. Individual psychotherapy, e.g., cognitive-behavioral therapy
- 2. Group therapy, e.g., strategic family therapy
- 3. Skills training (see M. Linehan, 1993)
- 4. Milieu treatment (e.g., in-vivo desensitization)
- 5. Pharmacotherapy (e.g., SSRI's and mood stabilizers)

# B. Specific recommendations for professional caregivers:

- 1. Do a thorough assessment.
- 2. Be <u>clear</u> about your <u>role</u> and boundaries.
- 3. Set realistic, behavioral treatment goals.
- 4. Balance <u>empathy</u> with the <u>technology of change</u>.
- 5. Hold the patient <u>accountable</u> without being punitive.
- 6. Do not participate in the patient's psychodramas; in particular, <u>resist the desire to rescue or attack the patient;</u> focus instead on the specific maladaptive coping behaviors: "Is this getting you what you <u>really</u> want?" "Would you be willing to learn other ways to get what you want (that are not self-destructive or off-putting/harmful to others)?"
- 7. Do not allow yourself to be held <u>hostage</u> by any patient; <u>terminate</u> with the patient and explain your reasons for doing so.
- 8. Do not confuse "abandonment" with appropriate termination. Legitimate reasons to terminate:
  - a. Patient not appropriate for treatment;
  - b. Patient clearly isn't benefitting from treatment;
  - c. Continued treatment could prove harmful to the patient; and
  - d. Patient is trying to hold practitioner hostage with suicidal threats.
- 9. Hospitalize patients who are suicidal/a threat to others.
- 10. Document, document, document...
- 11. Seek the counsel of colleagues when working with any high conflict patient and document this in the patient's chart.
- 12. Be aware of your <u>counter-transference</u>, address it but do <u>not</u> share it with the patient.

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## THE TEN COMMANDMENTS OF HOW TO GET ALONG WITH PEOPLE

- 1. Keep skid chains on your tongue. Always say less than you think. Cultivate a low, persuasive voice. How you say it often counts more than what you say.
- 2. Make promises sparingly and keep them faithfully, no matter what the cost.
- 3. Never let an opportunity pass to say a kind and encouraging word to or about somebody. Praise good work, regardless of who did it.
- 4. Be interested in others; their pursuits, their work, their homes and their families. Make merry with those who rejoice; with those who weep, or mourn. Let everyone you meet, however humble, feel that you regard him/her as a person of importance.
- 5. Be cheerful. Don't burden or depress those around you by dwelling on your aches and pains and small disappointments. Remember, everyone is carrying some kind of burden.
- 6. Keep an open mind. Discuss but don't argue. It is a mark of a superior mind to be able to disagree without being disagreeable.
- 7. Let your virtues, if you have any, speak for themselves. Refuse to talk about the vices of others. Discourage gossip. It is a waste of valuable time and can be destructive and hurtful.
- 8. Take into consideration the feelings of others. Wit and humor at the expense of another is never worth the pain that may be inflicted.
- 9. Pay no attention to ill-natured remarks about you. Remember, the person who carried the message may not be the most accurate reporter in the world. Simply live so that nobody will believe him/her. Disordered nerves and bad digestion are a common cause of back-biting.
- 10. Don't be anxious about the credit due you. Do your best and be patient. Forget about yourself and let others "remember." Success is much sweeter that way.

#### SELF EVALUATION

#### **Understanding and Effectively Dealing with High Conflict People**

1.	a. b.	following is <u>not</u> a characteristic of the high-conflic A long history of interpersonal conflict Pathological childhood relationships Remarkable empathy for the feelings	t indi d.	vidual? of others Aggressive energy
2.	a. b.	fenses seen with high-conflict individuals include a Splitting (e.g., black-or-white thinking) Projection Blaming others for problems they	ill but d.	t which of the following? create All of the above are seen with high- conflict people.
3.	a.	following is true of the high-conflict individual? They trigger defensive reactions in others. They have an inordinate amount of	c. d.	aggressive energy. They are prone to be litigious. All of the above are true.
4.	a. b.	pehavior can be fueled by which of the following? Stress Poor physical health, e.g., lousy diet, lack of exercise, chronic pain, etc. Atypical brain chemistry, e.g., low in	d. e.	serotonin Toxic relationship dynamics All of the above can fuel aggression.
5.	a. b.	following are common <u>behavioral</u> problems with h Boundary violations Problems managing anger and aggression	iigh-d c. d.	conflict individuals? Narcissistic behavior All of the above are behavioral problems with high-conflict individuals.
6.	b.	behavior: Rarely represents a suicide attempt. Is typically motivated by attention- seeking	c. d.	Is rarely a serious issue requiring formal intervention A only
7.	a.	ctors which may impact the genesis of toxic behav Biogenetic influences, e.g., atypical brain chemistry, inherited psychiatric disorders, etc. Pre-birth or post-birth trauma to the	iors i c. d. e.	central nervous system. Chronic or acute substance abuse
8.	b.	ersonalities: Straddle the border between sanity and psychosis. Are typically triggered by real or perceived abandonment. Have primitive ego defense	d. e.	mechanisms, including splitting and projection of blame. Rarely seek professional treatment. A, B, and C are true
9.	a.	deficiency can cause which of the following sympton Problems with affect regulation, e.g., depression Anxiety-based disorders, e.g., OCD	oms? c. d.	Problems with impulse control and judgment All of the above
10.	a. b.	ssionals who treat high-conflict patients should: Be clear about your role and boundaries Set realistic treatment goals collaboratively with the patient. Strive to balance the technology of	d. e.	acceptance with the technology of change.  Not allow themselves to be held hostage by any patient.  All of the above.

**Answer Key:** 1. C, 2. D, 3. D, 4. E, 5. D, 6. D, 7. E, 8. E, 9. D, 10. E

## **FACULTY**

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David J. Norris, MD, MBA, CPE, of Wichita, Kansas, is a practicing cardiac anesthesiologist and maintains deep expertise in the communication, financial and organizational skills, as well as business processes, needed for effective, economical, and efficient delivery of high-quality patient care. He is currently medical director for the HCA Woodlawn Campus and is president of Wichita Anesthesiology. Dr. Norris is a frequent speaker on medical practice business, leadership and financial issues and is author of *The Financially Intelligent Physician*, with a short, weekly podcast of the same name, and *Great Care, Every Patient*.

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#### **Successful Negotiating and Effective Decision Making**

#### The Agenda for Today

Learn

Mindset for effective negotiations

Factors that can derail your negotiation

A system that will ground you in safe decision making

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#### Jim Camp

1946 - 2014



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August 16, 1987 Romulus, MI NWA FL 255



Passengers: 149 Crew: 6 Fatalities: 156

Only one passenger survived

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The NationalTransportation Safety Board determines that the probable cause of the accident was the flight crew's failure to use the taxi checklist to ensure that the flaps and slats were extended for takeoff.



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#### The Why



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#### The Why

We negotiate everything in life

Spouse

Children

Patients

Contractors and Suppliers

Partners, Co-workers, Bosses

#### The Why

We negotiate everything in life

Patients

Contractors and Suppliers

Partners, Co-workers, Bosses

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#### **Decision Making**

Every person has a unique path to how they reach decisions. This is based on their biology, beliefs, experiences, habits and hisses

Up to 90% of the decisions we make do not use active thinking

They are automatic and can obscure reality

We do this to conserve energy and increase speed

We are programmed to make 'good enough' decisions

We can improve our decision-making ability by being aware of our and our respected opponent's decision path

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# The Four Negotiation Strategies

**Win-Win**: people who believe that compromise is a requirement and have an overriding need to be friends at the end of the negotiation

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**Win-Win**: people who believe that compromise is a requirement and have an overriding need to be friends at the end of the negotiation

Amateurs: people who don't know what they or they other side really wants and behave unpredictably during the negotiation

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# The Four Negotiation Strategies

**Win-Win**: people who believe that compromise is a requirement and have an overriding need to be friends at the end of the negotiation

Amateurs: people who don't know what they or they other side really wants and behave unpredictably during the negotiation

**Bullies**: people who don't care about their opponent and just want the best deal for themselves possible

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# The Four Negotiation Strategies

**Win-Win**: people who believe that compromise is a requirement and have an overriding need to be friends at the end of the negotiation

**Amateurs**: people who don't know what they or they other side really wants and behave unpredictably during the negotiation

**Bullies:** people who don't care about their opponent and just want the best deal for themselves possible

**Professionals:** people who are happy with what they get, pursue their objectives systematically, and would be welcomed to participate in a future negotiation

# The Case Against Win-Win

Assumes you need to compromise before you start

Can not be objectively measured until the agreement is implemented which may be years in the future

It's an emotion based strategy that puts emphasis on being friends vs being effective and respected

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#### What is a Negotiation?

A negotiation is the effort to arrive at an agreement between two or more parties, with all parties having the **right to veto**.

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#### **Predators**



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#### Predators Prey on Weakness

What makes you weak?

Desire for

Money

Power

Status

They want you to be afraid of saying "no"

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#### Tactic vs Principle

Tactic (n) - an action or method that is planned and used to achieve a particular goal

Principle (n) - a basic truth or theory: an idea that forms the basis of something.

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#### Start with "NO"

#### Start with "NO"

Not about saying "NO"

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#### Start with "NO"

Not about saying "NO" It's about inviting "NO"

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#### Start with "NO"

Not about saying "NO"

It's about inviting "NO"

Lowers DEFENSES

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#### Start with "NO"

Not about saying "NO"

It's about inviting "NO"

Lowers DEFENSES

Builds credibility

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#### Start with "NO"

Not about saying "NO"

It's about inviting "NO"

Lowers DEFENSES

Builds credibility

Shows where you differ on issues

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#### Allow Yourself to Hear NO

If they say NO, it means they don't like me If they say NO, my feelings might be hurt If they say NO, it's over If they say NO, I've failed

#### Allow Yourself to Hear NO

If they say NO, my traings might be hurt
If they say NO, my traings might be hurt
If they say NO, it's over
If they say NO, I've failed

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#### Allow Yourself to Say NO

If I say NO, I'll be disliked

If I say NO, I'll hurt their feelings

If I say NO, I might really damage relationship

If I say NO, I'll come across as being mean

If I say NO, it's all over

If I say NO, the deal is lost and then I've failed

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#### Allow Yourself to Say NO

If I say NO, I'll be disliked

If I sa. NO, I'll hurt their feelings

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If I say NO, I'll contactors as being mean

If I say No, it's all over

If Loay NO, the deal is lost and then Vve failed

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#### What's Worse...

#### No Deal Bad Deal

No deal is better than a bad deal No hire is better than a bad hire No contract is better than a bad contract

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#### Signs of a Poor Negotiation

They accepted your first offer

You offered, they countered and you split the difference

You didn't ask any questions

They didn't ask any questions

Neither side tried to tweak the deal

You negotiated only one issue (such as price)

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#### The Effective Negotiator

Effective decision making

Mission and purpose driven

Set valid activity/behavior goals and objectives

ID and plan to solve "real problem"

Focused

Growth mindset

#### Mindset

Thoughts & Feelings Actions & Behaviors

Fixed Growth

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Let us never negotiate out of fear.
But let us never fear to negotiate.
- John F Kennedy

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#### What We Really Manage

What is it that we actually control?

The Results

The Systems

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#### What We Really Manage

What is it that we actually control?

The Results

The Systems

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#### **Protection From Our Emotions**

Systems work to provide guidance in decision making

Systems help to reduce and control emotions

Systems help reduce errors and provide safety

Using a system consistently can work to change your mindset

A system helps you create a plan

Plan ahead

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#### Fear

Fixed (Scarcity) Focused on us

Rejection Losing

#### **Their Tactics**



#### **Powerful Psychology**

Framing Effect Prospect Theory Loss Aversion Certainty Effect

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#### Framing Effect

People respond differently to same choice based upon how it is presented to them

You're offered the opportunity for a 10% change

90% 100% 10%

45% 55% 10%

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#### Framing Effect

People respond differently to same choice based upon how it is presented to them

You're offered the opportunity for a 10% change



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#### **Prospect Theory**

People are drawn to sure things over probabilities even when the probability is a better choice

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#### **Loss Aversion**

People will take greater risk to avoid losses than to achieve gains

Gain Lose

 Probability
 Amount
 Probability
 Amount

 95%
 \$10,000
 95%
 \$10,000

 100%
 \$9,500
 100%
 \$9,500

Gain less Lose more



#### **Certainty Effect**

People are drawn to sure things over probabilities even when the probability is a better choice

Probability Amount

95% \$10,000 100% \$9,500

Gain less

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#### The Relationship

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"They won't like us if we don't discount or give them want they want"

They will likely bring up relationship as a leverage tool - induce your fear and neediness

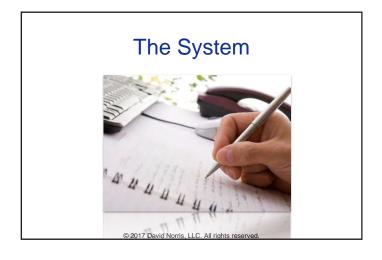
Never take responsibility for the other side's decisions. Never "save the relationship."

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#### RESPECT

"I can't be your friend here. I'd prefer you respect me and I think that's probably what you would prefer too. Because I respect you, I'm going to be straight with you. We simply cannot do what you've requested."

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### The System

Mission and Purpose

**Behaviors** 

Questions

**Budgets** 

Checklist

Log

# Mission & Purpose What

Mission & Purpose

What Why

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#### Mission & Purpose

What Why

Concise Always written

Rooted in their world Their problems

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#### **Bad Behaviors**

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#### **Neediness**

Is a way of thinking
It's a story you tell yourself
It's the emotions you feel
The emotions you display

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#### **Neediness**

Talk too much

Vocabulary

Rush to close

You get excited about the success of the deal

#### **Dangerous Behaviors**

Come from fixed mindset

**Assumptions** 

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#### **Dangerous Behaviors**

Come from fixed mindset

Assumptions

Expectations

No negative or positive expectations are allowed in a professional negotiation.

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#### **Good Behaviors**

No Talking

Never answer the unasked question

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#### **Good Behaviors**

No Talking

Never answer the unasked question

3+

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#### **Good Behaviors**

No Talking

Never answer the unasked question

Listen

3+

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#### **Good Behaviors**

No Talking

3+

Never answer the unasked question

Listen

Be less okay

#### **Good Behaviors**

No Talking

Never answer the unasked question

Listen

3+

Be less okay

Steady Emotions

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#### **Good Behaviors**

No Talking

Never answer the unasked question

Blank Slate

Listen

3+

Be less okay

Steady Emotions

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#### **Good Behaviors**

No Talking

Take good notes

Never answer the unasked question

Blank Slate

Listen

3+

Be less okay

Steady Emotions

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#### **Gather Info**



#### Where to Look

Web searches
Business papers and magazines
Financial statements and annual reports
10-K, 10-Q, 8-K, Schedule 13D
Form 990 - guidestar.com
Industry & trade organizations and magazines
The marketplace as a whole

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#### Questions

The other side expects a fight - an argument Asking questions throws them off their game Gets you out of the offer-counter-offer game

#### **Asking Questions**

Good questions are key to effective negotiating

Two types

Verb-led

Yield answers: Yes, No, Maybe

Interrogative

Who, What, When, Where, Why, How

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#### **Asking Questions**

Good questions are key to effective negotiating

Two types

Verb-led

Yield answers: Yes, No, Maybe

Interrogative

Who, What, When, Where, Why How

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#### **Ask Questions**

)

#### WHY?

7

Use why carefully

Can see to be an accusation at times

Why would you ever change/leave/move?

Why would you want to work for/with us?

!

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#### Labeling

Spot their feelings, turn them into words - repeat their emotions back to them

It seems like...

It looks like...

It sounds like...

Avoid "I"

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#### The F-Word

Don't assume they have the same yardstick when measuring what is **FAIR** 

Avoid projecting your values onto them

You may hear

"I just want what's fair..."

Respond with "OK Sorry. Let's stop and go back to where I starting treating you unfairly"

"We've given you a fair offer..."

"It seems like you're ready to provide the evidence to support that claim."

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#### **Email**



Hard to negotiate via email

Gives them too much time to think, calm down, recenter themselves

They can really control the amount of information they reveal

7/38/55



#### **Email**

If you're being ignored - provoke a no
Have you given up on this opportunity?
Don't be afraid to use your right to veto
Sometimes you have to force them into "no" to
get them to listen and engage
Mislabel their actions, emotions, desires

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#### If They Seem To...

Go off the rails they might be
Ill-informed - have bad information
Constrained - something you don't know about is holding them back

Have other interests

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#### If They Seem To...

Go off the rails they might be

Ill-informed - have back

Constrain NO ASSUMPTIONS

Constrain NO ASSUMPTIONS

Remember - NO ASSUMPTIONS

Remember - NO ASSUMPTIONS

Remember - NO ASSUMPTIONS

Remember - NO ASSUMPTIONS

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#### **Budgets**



Time

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#### **Budgets**



Time

1x



Energy 2

2x

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#### **Budgets**



Time

1x

1x



**Energy** 

2x



Money

3x

#### **Budgets**



Time



Energy 2x

1x



Money 3x



**Emotion** 4x

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# The Medical Record of the Negotiation

Before the event,

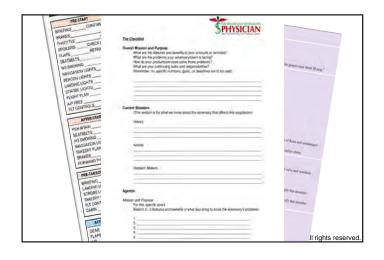
Create a checklist/prep sheet

Everyone on the team shares and uses it

After the event,

Create a log

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#### Checklist

1. Mission & Purpose

Our Overall Mission and Purpose

Must be:

Based in their world to solve their problem and for their benefit. Big picture.

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#### Checklist

2. Current Situation

Changes

What has happened since last meeting?

<u>History</u>

What has led up to this point?

Activity

What have we done? What have they done?

Decision-Makers

What is their decision-making process?

Who is involved on their side?

Who is involved on our side?

#### Checklist

#### 3. Agenda

A. Mission & Purpose for this Specific Event

#### This Events Mission and Purpose

Must be:

Based in their world to solve their problem and for their benefit. Focused on details.

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#### Checklist

#### 3. Agenda

#### B. Problems

Anything that holds us back from a successful conclusion

When we ID a problem, we must deal with it in the upcoming negotiation.

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#### Checklist

#### 3. Agenda

#### C. Baggage

Our collected life experiences and observations

Our baggage

Their baggage

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#### Checklist

#### 3. Agenda

D. What We Want

If you don't know what you want, you will likely wind up getting what someone else wants.

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#### Checklist

#### 3. Agenda

E. What Happens Next

Have a plan for the next step. Leads to next negotiation event.

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#### Checklist

#### 4. Activities & Goals

Team Behaviors

Avoid neediness.

Connect with them as people. Nurture.

Be silent and take good notes.

#### Assignments

Let the experts talk in their expert area. Assign who will speak about what.

#### Questions

Create 3 to 5 interrogative questions that will help build vision of their pain Norris, LLC. All rights reserve

#### Log

#### 1. Participants

Who was present

This side

Our side

#### 2. Their Pain

What is their identified pain or problem(s)? What new problems did we identify? Summarize your perception of their pain

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L	og	
3. Budgets	<u>Theirs</u>	<u>Ours</u>
Time		
Energy		
Money		
Emotion		
Keep track of th	ie budgets.	
Know if your en	notional is gett	ing too high.
Know how high	their emotion	al budget is.
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#### Log

#### 4. Decision Process

What new information about their decision making process was discovered?

Who else might we need to involve?

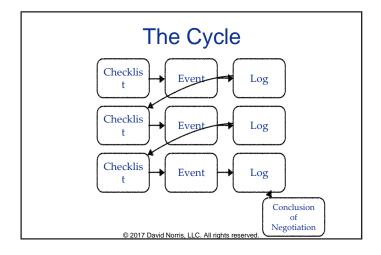
#### 5. Summary of Event

Write down a summary of your thoughts about how the session went. Be honest. Do this as soon as possible.

#### 6. Next Potential Agenda

Use this log information to create your next negotiation agenda.

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# But Wait, We Can't Say No...

#### Why?

Financial burden

Operational obligations

Market share

Public relations

Fear

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#### Fear

What are you afraid of?

The loss of revenue

Why are you wanting to be paid more?

Are you losing money?

What is your ethical duty to your family, employees, their families?

#### Fear

What are you afraid of?

Remember - NO DEAL > BAD DEAL

What is your ethical duty to your family, employees, their families?

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#### Fear

What are you afraid of?

The public relations

What's you mission and purpose?

Does the community know it?

Do you live it?

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#### The Internal Negotiation

Might be the most important negotiation of all Leadership must be on-board with plan

Use the system to uncover

The fear/pain/problems of your organization

The decision makers

Reach a negotiated plan internally before negotiating with the adversary

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#### The Internal Negotiation

Begin by defining and agreeing upon the M&P Define the problems that you face internally Know your decision making process Know what you want

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#### The Adversary Has Needs

They sold a piece of paper to the patient/employer/plan

They have a contract to fulfill

Is there capacity in the market space to accommodate your volume so you exercise your right to veto?

They will use fear and predatory practices to grind you down and establish fear in you

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#### Imagine...

Imagine what you could do if...

You could control your emotions

You were prepared for the negotiation

You didn't feel fear

You didn't show fear

You knew what you wanted

#### Fastest Way to Get What You Want

Professional athletes use coaches to help them improve their performance

How do you plan to improve your performance?

Get negotiations consulting help today

Contact me to negotiate stronger deals

david@davidnorrismdmba.com

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#### **Summary**

It all starts with mindset

Be mindful of your behaviors

Write down a checklist and log

Create a negotiation plan and avoid missteps

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#### **Session Objectives**

Describe the need for a structured approach to negotiations

Recognize the impact of mindset on the negotiation encounter

Formulate a solid and successful model for negotiations

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#### **Learn More**

www.davidnorrismdmba.com/negotiation-resources

david@davidnorrismdmba.com

316-200-2785

#### **SELF EVALUATION**

#### **Successful Negotiating and Effective Decision Making**

- **1.** T/F Your mindset about the adversary, the situation, and the negotiation event is the most important aspect you can control.
- 2. All of the following are behaviors that we should use during the a negotiation EXCEPT:
  - a. Blank slating
  - b. Take notes
  - c. Push to close
  - d. No talking
- **3.** T/F Neediness is the physical display of our fears as we negotiate.
- **4.** T/F Verb-led questions are the best tool to discover the pain and needs of the adversary.
- **5.** Items that we should review before any negotiation task such as a meeting, phone call, or email include all of the following except:
  - a. The mission and purpose of the negotiation
  - b. The problems we are facing
  - c. Baggage we and the adversary might be carrying
  - d. What we want
  - e. What happens next
  - f. All of the above
- **6.** T/F Keeping a written log or account of what happened during the negotiation event isn't necessary.
- 7. T/F You only need to know the decision making process of the adversary during a negotiation.

**Answer Key:** 1. T, 2. C, 3. T, 4. F, 5. F, 6. F, 7. F

#### LOUIS KURITZKY, MD

4510 NW 17th Place GAINESVILLE, FL 32605 (352) 377-3193 LKuritzky@aol.com

#### **Understanding, Diagnosing and Managing Transthyretin Amyloidosis**

#### **Objectives**

- Understand the pathophysiology of ATTR as a member of the protein-misfolding disorders
- Recognize clinical presentations suspicious for ATTR as encountered in the primary care setting
- Become familiar with the non-invasive diagnosis of ATTR cardiomyopathy
- Learn the fundamentals of some currently available pharmacotherapies for ATTR

#### Where to Start?....What is Amyloidosis? The Pathologist's Point of View

"...a condition associated with a number of inherited and inflammatory disorders in which extracellular deposits of fibrillar proteins are responsible for tissue damage and functional compromise."

Robbins and Cotran Pathologic Basis of Disease (10th Ed); Elsevier: 2021

### ATTR: Where to Start? The PCP Point of View

#### **GUIDELINES**

Avoiding misdiagnosis: expert consensus recommendations for the suspicion and diagnosis of transthyretin amyloidosis for the general practitioner

Gertz M et al BMC Family Practice 2020;21:198:1-12

#### ATTR: Where to Start?: The PCP Perspective

"...a systemic life-threatening disease characterized by TTR fibril deposition in organs and tissues....a definitive Dx....is often a challenge...because of its heterogeneous presentation....cardiac and peripheral neurons are most frequently involved...also...GI and other systemic manifestations....often misDx as a more common disorder leading to significant delays in the initiation of Rx."

Gertz M et al BMC Family Practice 2020;21:198:1-12

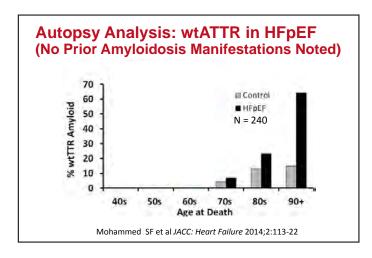
#### ATTR: Why Bother?

- Epidemiologic Burden
- Pathophysiology Well Described
- Cardiac ATTR; Highly Consequential
  - CHF (HFpEF)
  - Rx →↓ Mortality & Morbidity
- Diverse non-cardiac targets
- Genetic Counseling (hereditary form)

#### ATTR: Why Bother?

".... ATTR...almost certainly the most common cause of cardiac amyloidosis...potentially accounting for up to 10% of elderly patients with HF."

Witteles RM Bokhari S, Damy T, et al "Screening for Transthyretin Amyloid Cardiomyopathy in Everyday Practice" *JACC* 2019;7(8):709-16



#### ATTR: Why Bother?

"ATTR deposition is seen in up to...17% of patients with HFpEF."

Kittleson MM Maurer MS, Ambardekar AV, et al "Cardiac Amyloidosis: Evolving Dx and Management" Circulation 2020:142:e7-e22

#### Epidemiologic Burden of ATTR-C

"Amyloid cardiomyopathy should be suspected in any patient who presents with heart failure and preserved ejection fraction."

Gertz MA et al J Am Coll Cardiol 2015;66:2451-2466

#### Nomenclature: ATTR

- ATTR = Transthyretin amyloidosis
- Transthyretin: a protein transport carrier for
  - thyroid hormones T<sub>3</sub> and T<sub>4</sub> (the 'thy' of transthyretin)
  - retinol (the retin of transthyretin)
- Transthyretin
- = *trans*ports *thy*roxine and *retin*ol

#### Whence 'Amyloid' ?: The Persistent Misnomer



German botanist, anatomist, lawyer, and physician (1804-188

- 1814: (Colin & Gaultier de Claubry): starch stains blue with iodine/sulphuric acid application
- 1838: (Schleiden): reports iodine-sulphuric acid test reaction in plants
- **1842**: (Schleiden): Publishes the term 'amyloid' for 'starch-like'(from latin amylym = starch)
- 1854 (Virchow): first publishes article using 'amyloid'

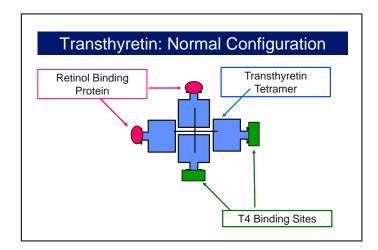
Tanskanen M Amyloidosis Intech 2013

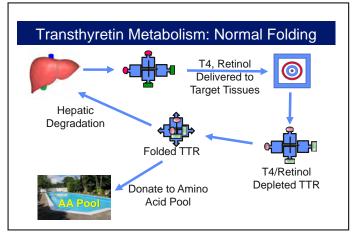
#### Amyloidosis:

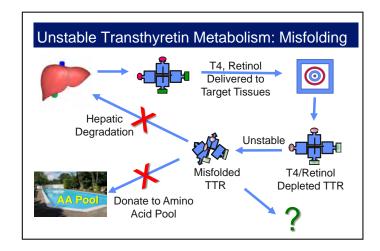
One of the Protein Misfolding Disorders

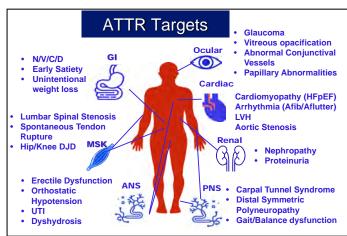
"What the Heck is a 'Protein Misfolding Disorder'?"

Protein Misfolding Disorders: Examples				
Cystic Fibrosis				
Lewy Body Dementia				
ALS				
Marfan's Syndrome				
Huntington's Disease				





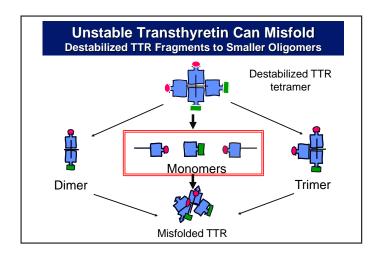


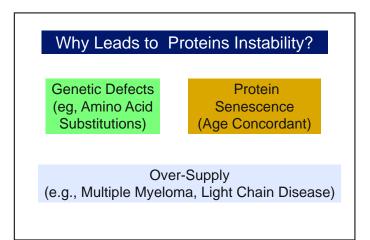


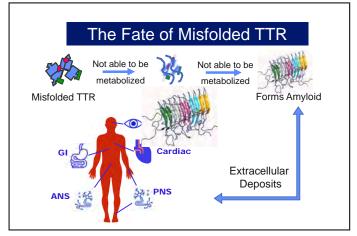
What Leads to Misfolded Proteins?

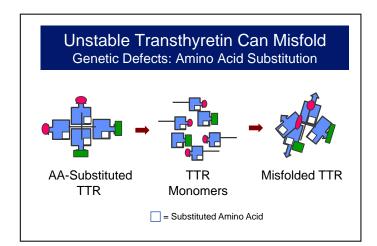
Protein Instability

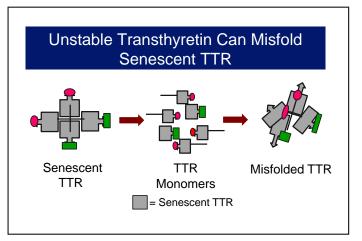
Oversupply

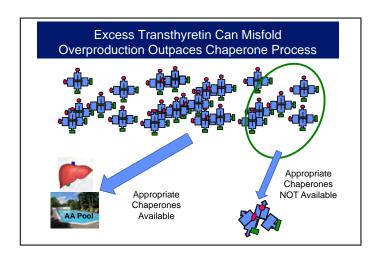


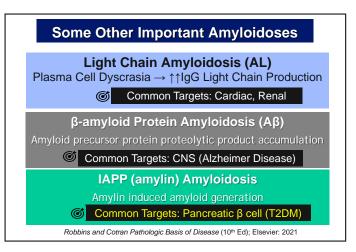


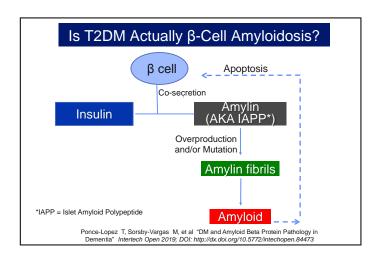




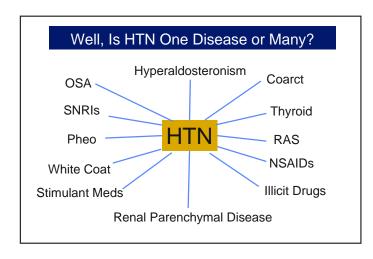






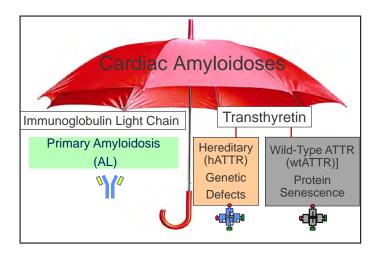


So, Is Amyloidosis ONE DISEASE or MANY?



# So, Like HTN, Amyloidosis is... "...Amyloidosis is not a single disease, but rather a group of diseases having in common the deposition of similar appearing proteins." \*\*Robbins and Cotran Pathologic Basis of Disease (10th Ed); Elsevier: 2021

Focus on ATTR-C (Transthyretin Amyloidosis Cardiomyopathy)



#### Hereditary ATTR: Valine-122-Isoleucine

- Most common genetic ATTR-C in US
- 3.43% Black Americans (1.5 million persons)
- Clinical penetrance age dependent
- ↑Risk of HF (RR 2.62)
- †mortality rate with ATTR-C

<sup>1</sup>Buxbaum J, et al. *Am Heart J*. 2010 159 (5): 864-870 <sup>2</sup>Shah K, et al. Circ Heart Fail. 2017. 9(6): p 5

#### Wild-type ATTR (wtATTR): Not so Rare...

- MORE common than hereditary ATTR
- · Increases with Age; Male Predominance
- 25% >80yo with Bx evidence of cardiac wtATTR¹
- Spanish study (n=120): 13% of pts ≥60yo admitted for HFpEF found to have wtATTR<sup>2</sup>

¹Mohammed SF et al *JACC: Heart Failure* 2014 p 4 ²González-López E, et al. Eur Heart J. 2015 Oct. p 2589

#### ATTR: Why So Often Unrecognized?

Generally, ATTR presenting signs/SxR *much* more commonly explained by other etiologies:

- Carpal Tunnel Syndrome (CTS) ≈ Repetitive Use
- HFpEF ≈ Hypertensive heart disease
- ED ≈ Vasculopathy
- Spinal Stenosis ≈ DDD



#### **ATTR Clinical Presentations**

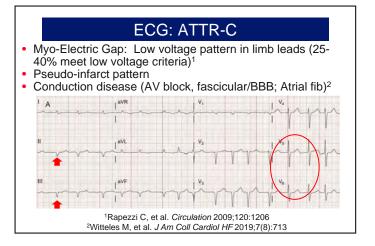
	hATTR	wtATTR	
Onset	Variable (per Genotype); >20yo	Median age > 70yo	
Gender	Male = Female	Male > Female	
	Cardiac & PNS	Cardiac & Tenosynovial	
Clinical Presentations	Heart Failure (HFpEF) Arrhythmia (Afib / Aflutter) Aortic Stenosis Conduction System Disease/Ventricular Arrhythmias		
	Bilateral CTS Polyneuropathy	Bilateral CTS Lumbar Spinal Stenosis	
	Autonomic Neuropathy	Hip/Knee DJD	

Ruberg FL, et al. J Am Coll Cardiol. 2019;73(22):2872-2891

### Wt-ATTR Clinical Cues: Precede or Concomitant with ATTR-C

- Carpal Tunnel Syndrome (esp Bilateral)
- Lumbar Spinal Stenosis
- Hip/Knee DJD
- Spontaneous Tendon Rupture
- β-blocker/CCB Exaggerated Response
- Myo-Electric Gap: Discordant ECHO vs ECG LVH
- Elevated Cardiac Biomarkers (troponins, BNP)
- Atrial Fibrillation/Flutter (69%)
- Aortic Stenosis (6-12%)

<sup>1</sup>Ruberg, *J Am Coll Cardiol*, 2019. p2875-2878 <sup>2</sup>Donnellan E, et al. *J Am Coll Cardiol EP*. 2020 Sep 6 (9): p1120.



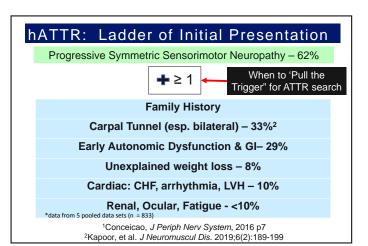
#### Echocardiogram: ATTR-C

#### Traditional Echo

- † LV thickness (>12mm)
- Diastolic dysfunction
- Diffuse cardiac hypertrophy Strain Imaging Echo
- Global longitudinal LV strain
- Apical sparing
- "Cherry-on-the-top" sign
- "Bullseye Map" sign

<sup>1</sup>Dorbala S, et al. *J Car Failure*. 2019. 25(11): E1-E39. <sup>2</sup>Lee SP, et al. *J Cardiovasc Imaging*. 2019;27(1):p 4. (Image) <sup>3</sup>Witteles RM, et al. *JACC Heart Fail*. 2019; 7:709–716.





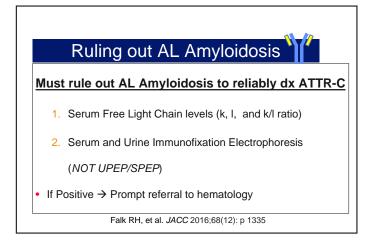
#### Carpal Tunnel Syndrome: Sometimes a Harbinger of ATTR-C

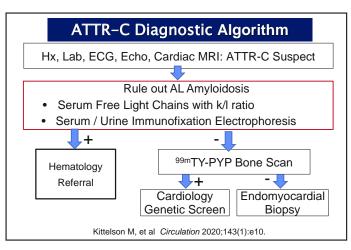
Carpal tunnel release pts (n =98):

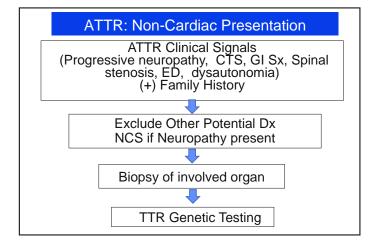
- Median age = 68
- 51% male
- + tenosynovial amyloid Bx = 10.2%
- hATTR = 2
- Cardiac Amyloidosis = 2

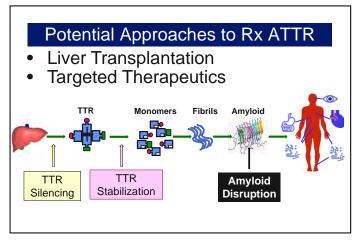
Sperry B.W., et al. J Am Coll Cardiol. 2018. 72:2040-2050.

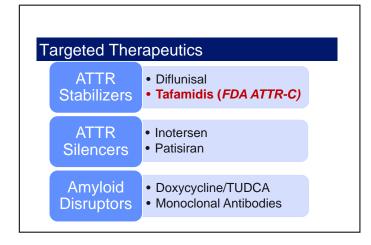
# Diagnosis of ATTR-C Exclusion of Plasma Cell Disorder (AL Amyloidosis) Identification of amyloid deposits by histology or non-invasive NM imaging TTR gene sequencing to determine presence of hATTR Ruberg, J Am Coll Cardiol, 2019

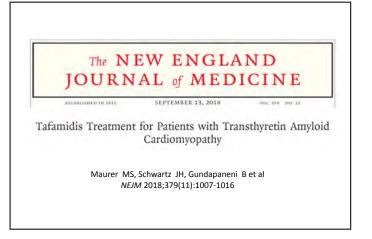


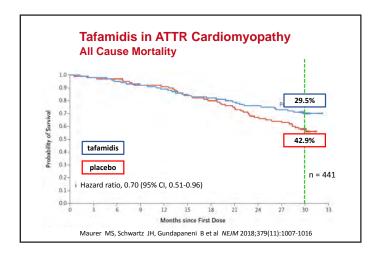


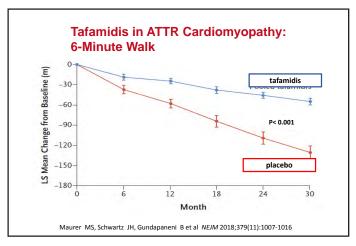


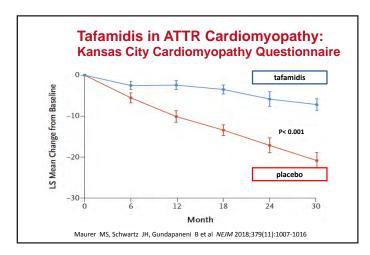












#### **What About Tafamidis Tolerability?**

"The safety profiles of tafamidis and placebo were similar....Adverse events that emerged during Rx were generally mild to moderate in severity, and permanent discontinuation of tafamidis or placebo as a result of adverse events was less common in tafamidis than in the placebo group."

Maurer MS, Schwartz JH, Gundapaneni B et al NEJM 2018;379(11):1007-1016

# Tafamidis: What the PCP Needs to Know (or... dld you expect the Cardiologist to practice OB, Pharmacology, and Rheumatology also?)

- Contraindications: NONE
- **Drug Interactions**: BRCP inhibitor (may increase BRCP substrates, e.g., methotrexate, rosuvastatin, imatinib)
- P450 Activity: Induces P-450 system enzymes 2B6 and 3A4
- · Pregnancy: no human data. Animal studies indicate fetal harm
- Lactation: no human data. Animal studies show presence in breast milk

Vyndaqel, Vyndamax (Tafamadis) Prescribing Information 2020

#### In Closing.....

"Advances in noninvasive dx, coupled with concurrent demonstration of efficacy and ... approval of specific ATTR-CM therapies, has shifted ATTR-CM from a rarely encountered and untreatable "zebra," to a condition that clinicians should consider on a daily basis."

Ruberg F, et al. JACC 2019 73(22):2872-2891.

#### **SELF EVALUATION**

#### **Understanding, Diagnosing and Managing Transthyretin Amyloidosis**

- 1. What is the most appropriate test to evaluate a 75 y.o. heart failure patient for ATTR-C?
  - a. Myocardial perfusion imaging stress test
  - b. Technetium pyrophosphate bone scan (Tc99m-PYP) imaging
  - c. Serum plasma electrophoresis
  - d. Electrocardiogram and NT-pro-B-type natriuretic peptide
- 2. Of the known TTR genetic variants that cause ATTR amyloidosis and are reported in commercially available tests, which is the most common in the USA?
  - a. Val122lle also known as V122l or pV142l
  - b. Thr60Ala also known as T60A or pT80A
  - c. Val30Met also known as V30M or pV50M
- **3.** The primary source of plasma transthyretin is:
  - a. The liver
  - b. The choroid plexus
  - c. The retinal pigment epithelium
  - d. The thyroid
- **4.** Which of the following pairs of compounds are transported by transthyretin
  - a. Trans fatty acids and thyroid hormone
  - b. Thyroid hormone and retinol
  - c. Thiopentanol and albumin
  - d. Prealbumin and Postalbumin
- **5.** Tafamadis, an oral TTR stabilizer, has shown which benefits in Heart failure treatment?
  - a. Reduced mortality
  - b. Improved six-minute walk
  - c. Improved quality of life
  - d. All of the above

**Answer Key:** 1. B, 2. A, 3. A, 4. B, 5. D

# **FACULTY**

#### David B. Mandell, JD, MBA

David B. Mandell, JD, MBA, of Ft. Lauderdale, Florida, is a practicing attorney in The Law Offices of David B. Mandell, PC and a principal of the wealth management firm OJM Group, LLC. He specializes in risk management, asset protection, and financial planning and has authored a number of books for doctors including, *Wealth Planning for the Modern Physician: Residency to Retirement*. Mr. Mandell also created the Category 1 CME monograph, *Risk Management for the Practicing Physician*. His articles have appeared in over 100 publications, including over 30 medical specialty journals, and he has addressed many of the nation's leading medical conferences.

Mr. Mandell holds a bachelor's degree from Harvard University from which he graduated with honors, a law degree from the UCLA School of Law where he was awarded the "American Jurisprudence Award" for achievement in legal ethics and earned his MBA from UCLA'S Anderson School of Management.

You may contact Mr. Mandell with any questions or comments at (877) 656–4362 or by email at mandell@ojmgroup.com.



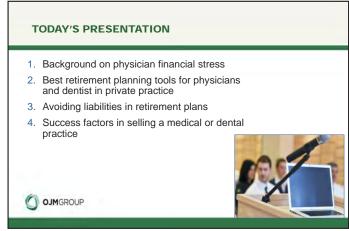


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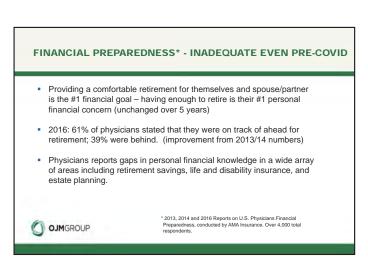
€ 877.656.4362 圖 866.913.4911 ⊕ WWW.OJMGROUP.COM Other offices in Arizona and Florida

### Reducing Financial Stress through Smart and Safe Retirement Planning David B. Mandell, JD, MBA

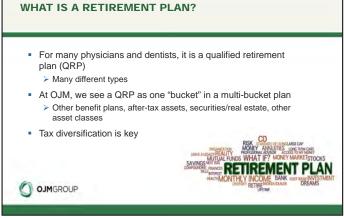


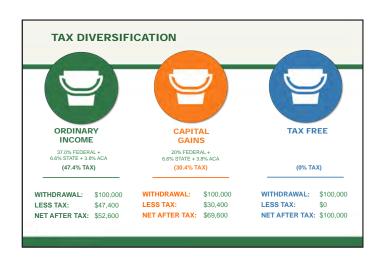


# 1. 87 percent of respondents said they are moderately-to-severely stressed/burned out on an average day. 2. 63 percent said they were more stressed or burned out than they were three years ago; 3. The top three things that they felt would help them reduce stress: a. better work hours and/or less call (32.5 percent) b. more or better work/life balance (30.7 percent) c. improved finances, compensation, reimbursement (29 percent)

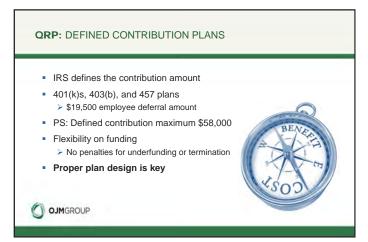


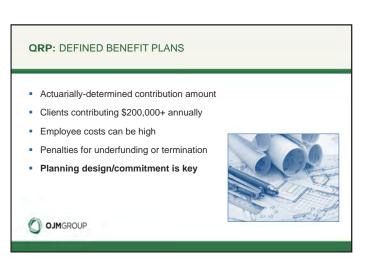


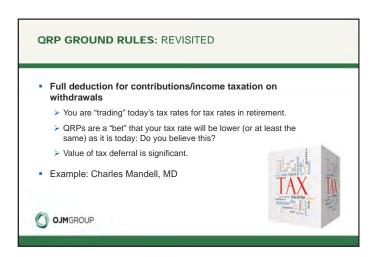


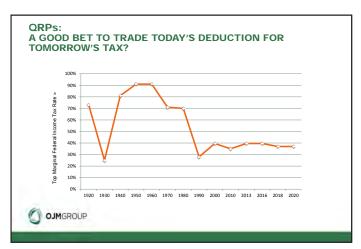






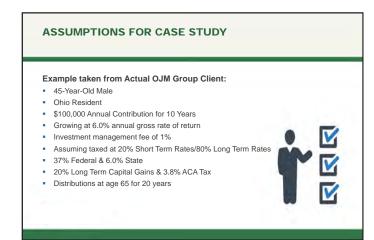


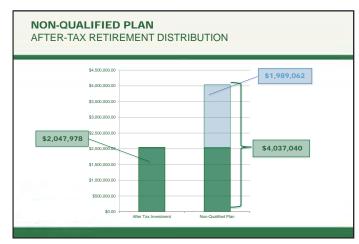


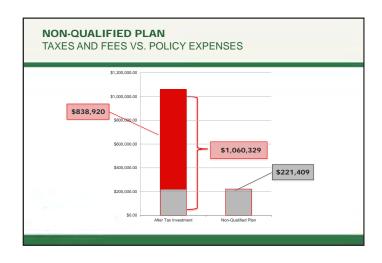


# Roth IRA Contributions after-tax; tax free growth and distributions Non-qualified plans; 162 bonus plans Contributions after-tax; tax free growth and distributions Life Insurance as a retirement plan

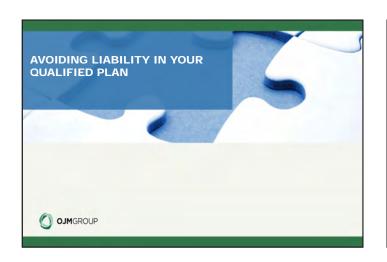












#### ARE YOU OVERPAYING AND EXPOSED?



- Parties involved in QRP administration
  - Recordkeeper
  - > Third Party Administrator
  - Investment advisor
- "Bundled" services often lead to conflicts, kick-backs, expensive fund lineups
- Many small practice plans have not been reviewed
- As plan sponsor/trustee, you have fiduciary liability to employees
- > You can be sued for underperformance; high expense funds
  - > U. of Chicago, MIT
  - > MassMutual, Ameriprise, Nationwide settlements. Goldman Sachs ongoing.
- > Solution: have your plan audited independently with benchmarks



#### CASE STUDY: OVERPAYING AND EXPOSED

- Employees: 1 physician, 4 employees, including spouse (\$600,000 p
- Fees: 1.50% Investment Advisory
- 2.41% across mutual fund expenses, TPA/Recordkeeping, and Investment Advisory
- This was a pooled investment account, meaning all participant investments are managed in the same manner. This can cause liability for the plan since not all participants will be comfortable taking the same level of risk.

#### Solution

- Plan design changed to allow each participant to direct his/her individual investments, including target-date retirement options
- Per industry benchmarking, the advisory fee was dropped to 0.60% for the plan. Total fees dropped from 2.41% to 1.63%, which saved the plan \$4,000 annually.







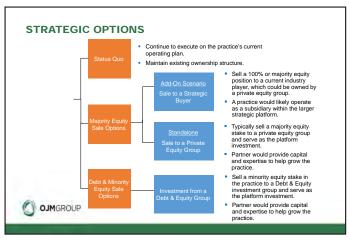
#### KEY DETERMINANTS OF VALUE: MEDICAL/DENTAL PRACTICE

- Retention of key doctors and staff after transaction close
- A significant dollar amount of Adjusted EBITDA
  - Adjusted EBITDA = Practice Earnings Before Interest Expenses, Income Taxes, Depreciation and Amortization Expense + adding back non-recurring expenses + ownerrelated expenses + excess owner compensation
- Diversified sources of revenue (Medical and Cosmetic, Ancillaries)
- Adjusted EBITDA margins that are consistently greater than 20%
- Highlighted growth opportunities (organic and add-on)





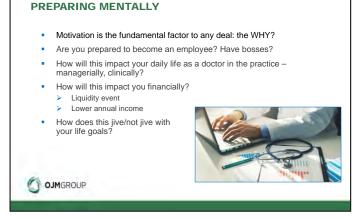


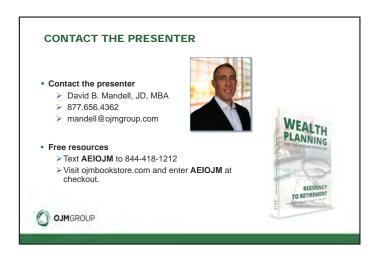


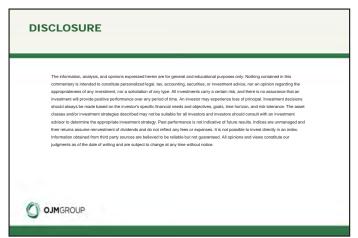












### SELF EVALUATION

## Reducing Financial Stress through Smart and Safe Retirement Planning

- **1.** T/F Providing a comfortable retirement for themselves and spouse/partner is the #1 physician financial goal.
- 2. According to the 2016 AMA survey, the percentage of physicians who are behind where they would like to be in terms of retirement preparedness was:
  - a. a. 10%
  - b. b. 25%
  - c. c. 39%
  - d. d. 50%
- **3.** T/F Tax diversification is crucial for all physicians' long term financial plans.
- **4.** Which of the following are considered "defined contribution" plans?
  - a. Profit sharing plans
  - b. 401(k)s
  - c. 403(b)s
  - d. All of the above
- **5.** T/F Non-qualified plans can be offered to only physicians or dentists in a practice, employees do not have to participate.
- **6.** T/F The largest U.S. banks use over \$160 billion of corporate owned life insurance (COLI).
- **7.** The following are NOT firms involved in qualified retirement plan administration:
  - a. Attorney
  - b. Recordkeeper
  - c. Third Party Administrator
  - d. Investment advisor
- **8.** T/F EBITDA means "Practice Earnings Before Interest Expenses, Income Taxes, Depreciation and Amortization Expense".

**Answer Key:** 1. T, 2. C, 3. T, 4. D, 5. T, 6. T, 7. A, 8. T

# **FACULTY**

# Barry A. Franklin, PhD

Barry A. Franklin, PhD, of Royal Oak, Michigan, serves as Director, Preventive Cardiology and Cardiac Rehabilitation, at Beaumont Health, as well as Professor, Internal Medicine, Oakland University William Beaumont School of Medicine. He is past president of both American Association of Cardiovascular and Pulmonary Rehabilitation and American College of Sports Medicine.

Dr. Franklin is past editor in chief of the *Journal of Cardiopulmonary Rehabilitation and Prevention* and serves on the editorial boards of 15 other scientific and clinical journals. He has written or edited more than 700 scientific and clinical publications, including 26 books, and has given over 1000 invited presentations worldwide. In 2015, he was listed among *The World's Most Influential Scientific Minds (Clinical Medicine)*.

You may contact Dr. Franklin with your questions or comments at Barry.Franklin@Beaumont.edu.



Beaumont Health Health Center 4949 Coolidge Highway Royal Oak, MI 48073

# **Extreme Exercise and Cardiac Health: Is More Really Better?**

# High Volume and Intensity Endurance Training/Competition: Is More Exercise Better ?\*

In 2015, there were ~ 2.5 million marathon participants in the U.S., as compared with 25,000 in 1976. There has been a similar exponential growth in other endurance events with, for example, 4.2 million triathlon competitors in the U.S. last year – a doubling since 2011.

\* 2015 Marathon, half marathon and state of the sport reports. Running USA, 2015 (http://www.runningusa.org/statistics/reports)

# Outline (8 topics)

### Topic :

- Cardiorespiratory Fitness, Walking Pace and Mortality: Protective Mechanisms?
- Exercise-Related Cardiovascular Events: Risk of Marathon/Triathon; Impact of Regular Exercise on Exercise Risk
- Marathon Running and "Immunity to Heart Disease"
- · Exercise: Too Much of a Good Thing?
- Physical Activity, Fitness & Atrial Fibrillation: Reverse J-Curve Pattern

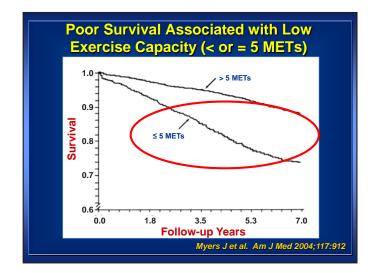


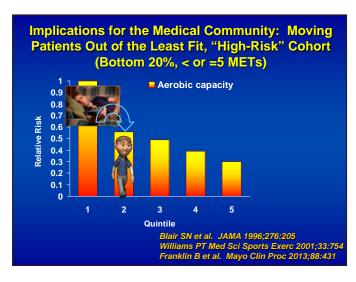


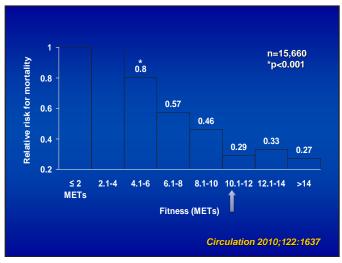


# Metabolic Equivalents (METs): A Measure of Energy Expenditure

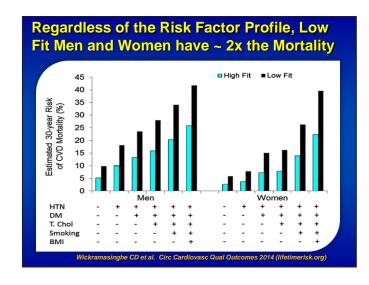
- 1 MET\* = amount of O2 your body uses at rest
- Average adult has a fitness level of 6 10 METs; heart failure patients 2 – 5 METs; elite endurance athletes ~ 20 – 25 METs
- Each 1 MET increase in cardiorespiratory fitness is associated with a 15% reduced risk of dying from an acute cardiac event
- A treadmill test is the most accurate way to assess your MET capacity
  - \* 3.5 mL O2/kg/min



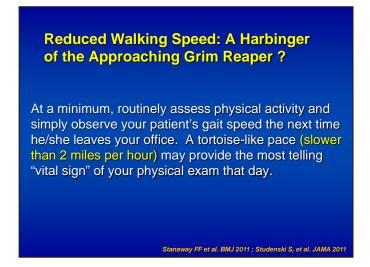


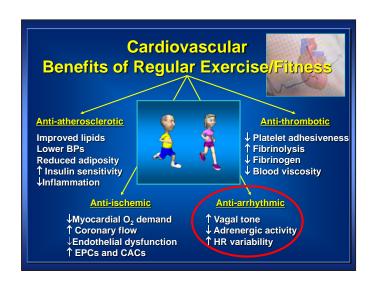


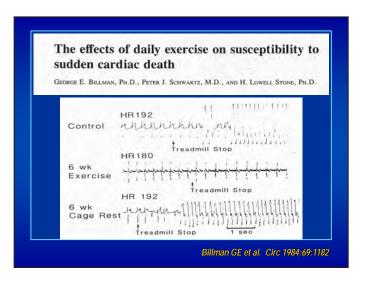
If there was a pill that you could take to cut your risk in HALF of dying from heart disease over the next 30 years, would you take it? There is such a pill---and its called EXERCISE.



# Summary: Cardiorespiratory Fitness (CRF) and All-Cause Mortality\* Conclusion: Men & women who are unable to achieve 5 METs (1.7 mph, 10% grade) during treadmill testing are at high risk for CV and all-cause mortality. In contrast, the risk of CVD-death is very low in those with a CRF of > or = 10 METs (3.4 mph, 14% grade).







# Aerobic Exercise Conditioning: A Nonpharmacological Antiarrhythmic Intervention\*

Aerobic exercise conditioning can improve cardiac autonomic balance by both increasing cardiac parasympathetic tone and decreasing cardiac sympathetic activity, thereby enhancing cardiac electrical stability and preventing sudden cardiac death.

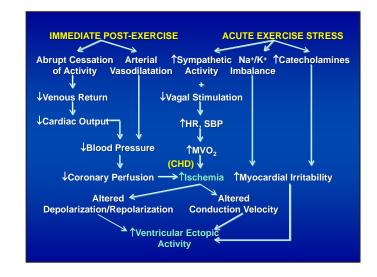


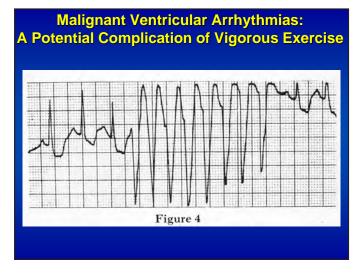
# **Outline**

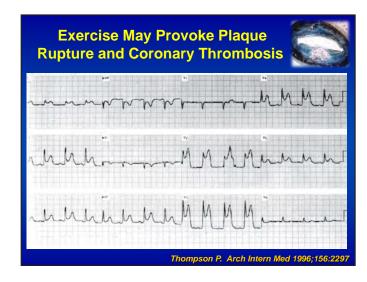
### Topic 2

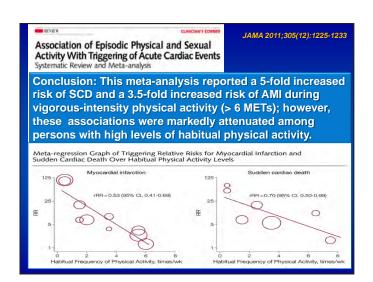
- Cardiorespiratory Fitness, Walking Pace and Mortality: Protective Mechanisms?
- Exercise-Related Cardiovascular Events: Risk of Marathon/Triathlon; Impact of Regular Exercise on Exercise Risk
- Marathon Running and "Immunity to Heart Disease "
- Exercise: Too Much of a Good Thing?
- Physical Activity, Fitness & Atrial Fibrillation: Reverse J-Curve Pattern

# Exercise and Acute Cardiovascular Events Placing the Risks Into Perspective A Scientific Statement From the American Heart Association Council on Nutrition, Physical Activity, and Metabolism and the Council on Clinical Cardiology In Collaboration With the American College of Sports Medicine Paul D. Thompson, MD. FAHA: Serven N. Blair, PED. FAHA: Denenico Corrado, MD. PhD: N.A. Mark Esses III, MD. FAHA: Since N. Blair, PED. FAHA: Denenico Corrado, MD. PhD: N.A. Mark Esses III, MD. FAHA: Since N. Blair, PED. FAHA: Denenico Corrado, MD. PhD: N.A. Mark Esses III, MD. FAHA: Since N. Blair, PED. FAHA: Denenico Corrado, MD. PhD: N.A. Mark Esses III, MD. FAHA: Since N. Blair, PED. FAHA: Denenico Corrado, MD. PhD: N.A. Mark Esses III, MD. FAHA: Since N. Berlion, PRD- Neil F. Gordon, MD, PBD, MPH; William I. Haskell, PhD. FAHA: Since N. Barry A. Fanano, MD: Murray A. Mittleman, MD. FAHA: Amorto Pellicical, MD. FAHA Stefan N. Willich, MD, FAHA; Fernando Costa, MD. FAHA Stefan N. Willich, MD, FAHA; Fernando Costa, MD. FAHA Abstract—Habitual physical activity robace coronary heart disease events, but vigerous activity can also acutely and transiently increases the risk of sudden caretiae death and acute myocantial infurction is usaceptible persons. This scientific statement stranges to robace these complications. Exercise associated neutro cardiac events personally for cardiac events in adults. The absolute rate of exercise conflicted winters with the prevalence of disease in the staty population. The incidence of both acute myocantial infurction and sudden death is penales in the habitually least physically active individuals No strategies have been according to the production of the staty population. The incidence of both acute myocantial infurction and sudden death is penales in the habitually least physically active individuals. No strategies have been applicated to the production of the strategies, such as accenting patients bef









# Cardiac Arrest During Long-Distance Running Races\*

To clarify the risk of cardiac arrest associated with marathon and half-marathon races in the U.S. from January 1, 2000, to May 31, 2010, investigators reported on the incidences and outcomes of events among 10.9 million registered marathon runners. Of the 59 cases of cardiac arrest (mean ± SD age, 42 ± 13 years; 51 men), 42 (71%) were fatal (-4 fatalities/year). Conclusion: Marathoners are at a low risk for acute cardiac events. The final mile, < 5% of the 26.2 mile marathon distance, accounts for ~ 50% of the sudden cardiac deaths.

The most frequent clinical and autopsy findings were hypertrophic cardiomyopathy and atherosclerotic CVD, respectively.

\*Kim JH et al. NEJM 2012;366:130-140

Ann Intern Med

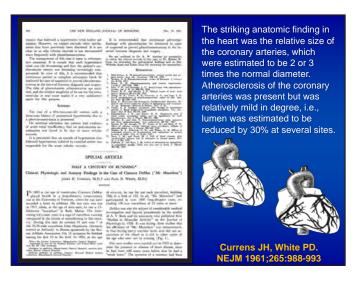
167:529-535

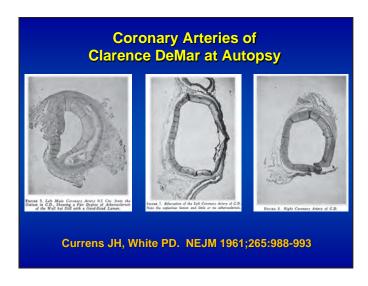


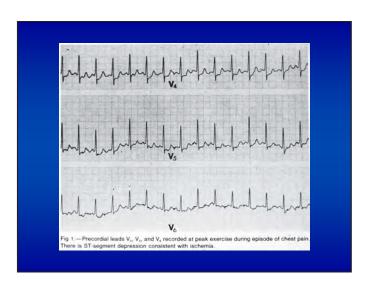
# Death and Cardiac Arrest in U.S. Triathlon Participants\* > 9 million participants over 30 years 135 sudden cardiac deaths( SCDs, 86% men; 13 survivors); incidence of 1.74/100,000 participants versus 1.01/100,000 for marathon running Women ~ 15% of the study population, and their incidence of SCD was 3.5 – fold less than men Most SCDs occurred during the swim (n=90; 67%) followed by the bicycle, run, and post-race periods, 22, 15, and 8 respectively Many of the SCDs (38%) were competing in their first triathlon Autopsies performed on 61 of the 135 victims, revealed that 27 (44%) had atherosclerotic CAD and/or cardiomyopathy

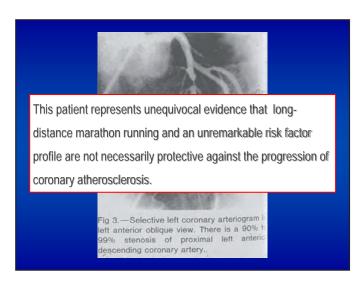
# Outline Topic 3 Cardiorespiratory Fitness, Walking Pace and Mortality: Protective Mechanisms? Exercise-Related Cardiovascular Events: Risk of

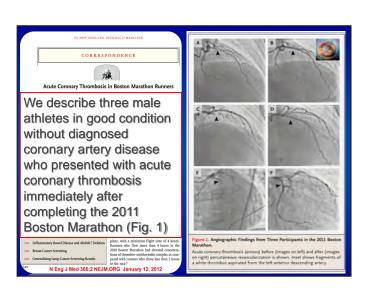
- Exercise-Related Cardiovascular Events: Risk of Marathon/Triathlon; Impact of Regular Exercise on Exercise Risk
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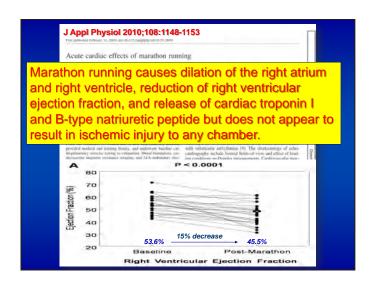




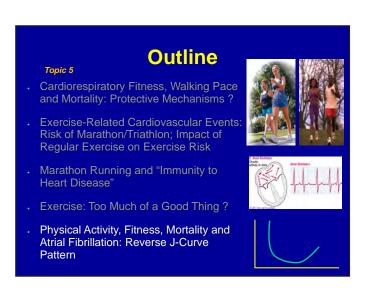


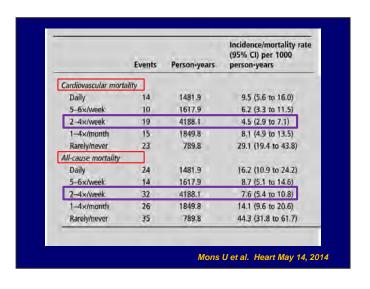


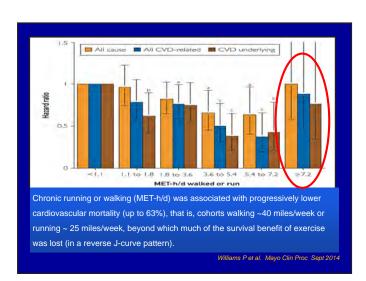


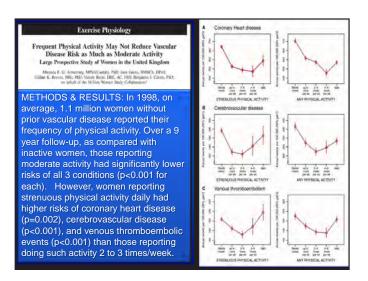


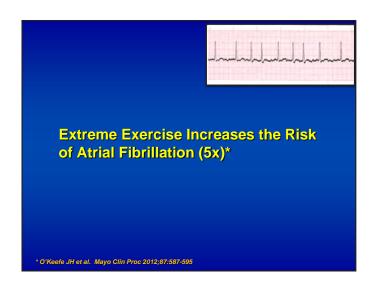
# Myocardial Fibrosis in Veteran Endurance Athletes\* Newer tissue characterization techniques such as delayed gadolinium enhancement on cardiovascular magnetic resonance imaging have now been used to describe diverse patterns of myocardial fibrosis in highly trained veteran endurance athletes (6 of 12, 50%). \*Wilson M et al. J Appl Physiol 2011;110:1622-1626





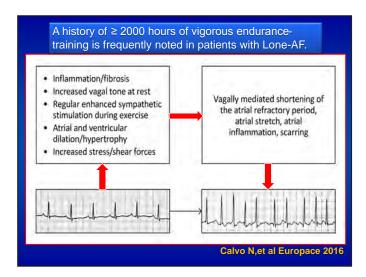


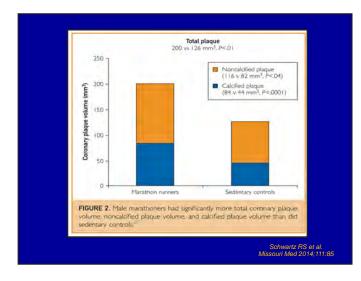




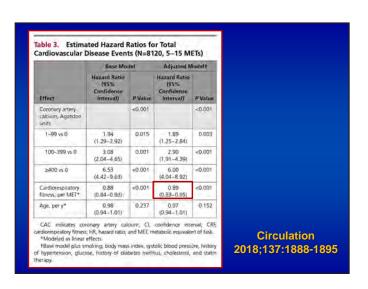
# Older Adults, Exercise and Atrial Fibrillation A prospective observational study of older men and women (mean age 73 years) reported that moderate-intensity physical activity such as walking was associated with a reduced risk of atrial fibrillation by about one-third. Still, high-intensity exercise showed the familiar reverse J-shaped relationship with the risk of atrial fibrillation.

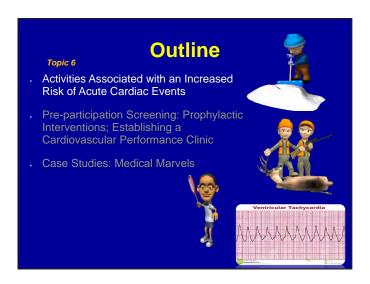
Mozaffarian D et al. Circulation 2008;118:800-80

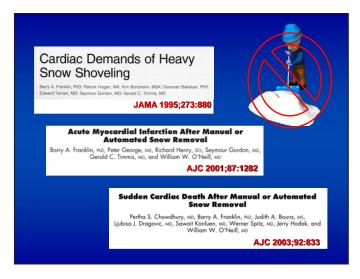


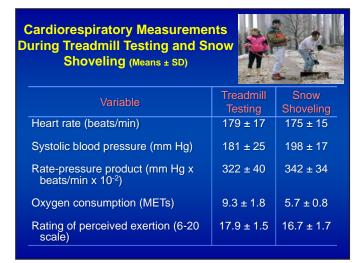


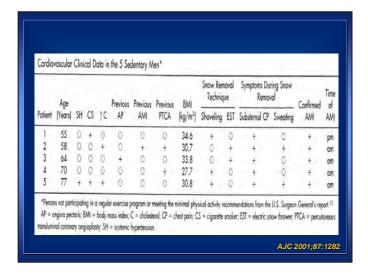
**BACKGROUND:** A robust literature demonstrates that coronary artery calcification (CAC) and cardiorespiratory fitness (CRF) are independent predictors of cardiovascular disease (CVD) events. Much less is known about the joint associations of CRF and CAC with CVD risk. Results From the Cooper Center Longitudinal Study METHODS: We studied 8425 men without clinical CVD who underwent preventive medicine examinations that included an objective measurement of CRF and CAC between 1998 and 2007. There were 383 CVD events during an average follow-up of 8.4 years. RESULTS: CVD events increased with increasing CAC and decreased with increasing CRF. Adjusting for CAC level (scores of 0, 1-99, 100-399, and  $\geq$  400), for each additional MET of fitness there was an 11% lower risk for CVD events (hazard ratio, 0.89; 95% CI, 0.84 - 0.94). CONCLUSIONS: In a large cohort of generally healthy men, there is an attenuation of CVD risk at all CAC levels with higher CRF. Circulation 2018;137:1888-1895



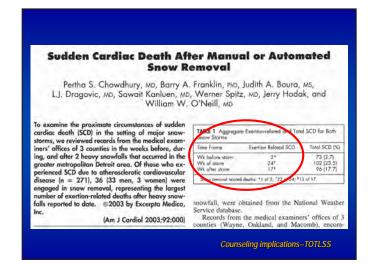




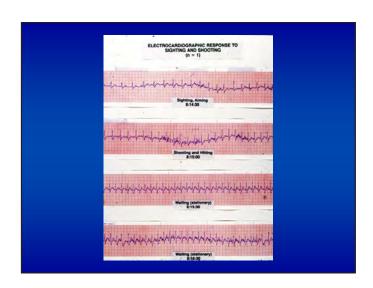


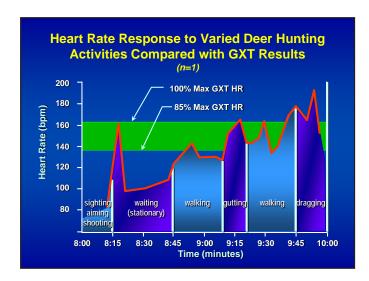


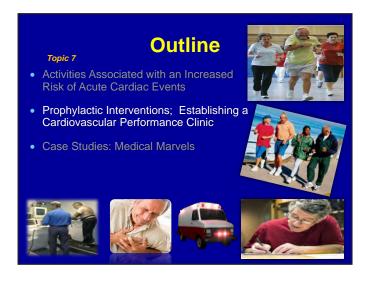
Habitually sedentary middle-aged and older patients at risk for heart disease, including obese and/or overweight individuals, current and former smokers, those with a history of hyper-cholesterolemia and/or systemic hypertension, as well as those with previous AMI or coronary revascularization, should be cautioned regarding the risk of AMI following manual or even automated snow removal, especially during the early morning hours.

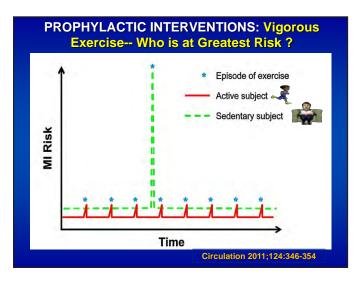


# Why Snow Shoveling Wreaks Cardiac Havoc\* The relative inefficiency of arm exercise as compared with leg exercise Working in an upright posture, especially when the legs are frequently motionless Isometric (static) exertion Expiratory strain (Valsalva maneuver) Inhalation of and exposure to cold air

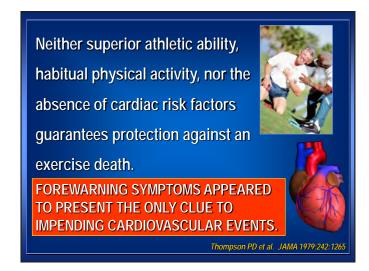


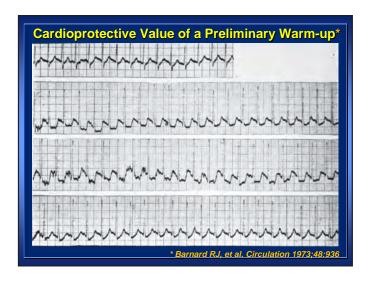


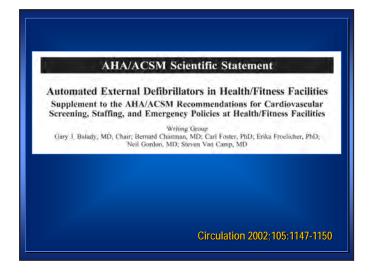


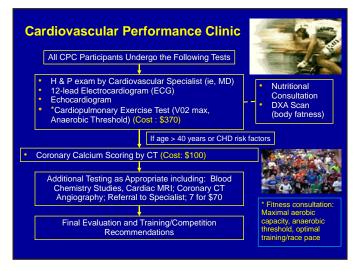


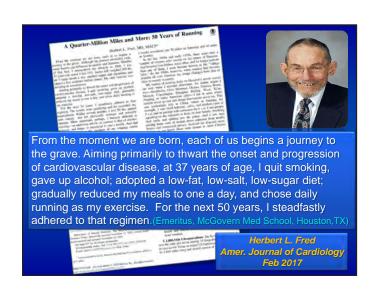


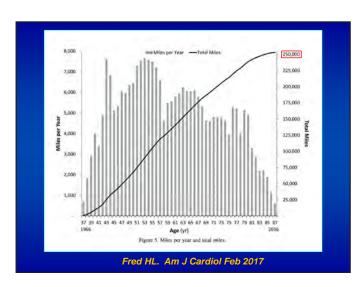


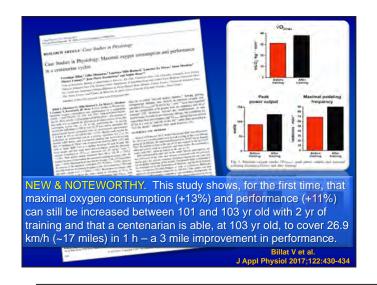


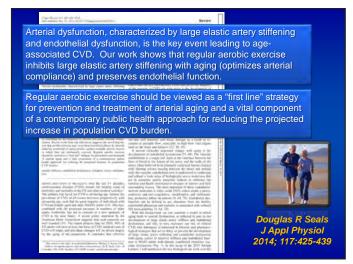












### **SELF EVALUATION**

	Extreme Exercise and Cardiac I	Health: Is More Really Better?
1.	<ul> <li>Poor survival is associated with a low exercise capacity d metabolic equivalents (METs).</li> <li>a. 1</li> <li>b. 5</li> <li>c. 7</li> </ul>	uring maximal treadmill testing, specifically ≤ d. 9 e. None of the above
2.	<ul> <li>According to a classic report, approximately fatalities in the U.S. The most frequent clinical and autopsy finding cardiovascular disease, respectively.         <ul> <li>a. 4</li> <li>b. 8</li> <li>c. 16</li> </ul> </li> </ul>	
3.	<ul> <li>Most sudden cardiac deaths during triathlons occur during</li> <li>a. Run</li> <li>b. Bicycle</li> <li>c. Swim</li> </ul>	g theperiod/portion of the endurance event d. Post-race e. Two of the above
4.	<ul> <li>It has been recently reported that high-volume, high-inten</li> <li>a. Coronary artery calcification</li> <li>b. Cardiovascular mortality</li> <li>c. Vascular disease</li> </ul>	sity exercise regimens may, over time, increase the risk of d. Atrial fibrillation e. All of the above
5.	<ul> <li>T/F - Research has shown that shoveling heavy, wet snow treadmill testing. This finding may account for the large nu</li> </ul>	

In persons with and without heart disease, each 1 metabolic equivalent (MET) increase in cardiorespiratory fitness is associated with a \_\_\_\_\_% reduced risk of dying from an acute cardiac event.

T/F - When previously sedentary middle-aged and older adults initiate an exercise program, jogging is recommended

a. 6

middle-aged and older snow shovelers with known or occult cardiovascular disease.

b. 10 e. 50 c. 15

Answer Key: 1. B, 2. A, 3. C, 4. E, 5. T, 6. F, 7. C

to safely and rapidly improve cardiorespiratory fitness.

# **FACULTY**

# **Dennis Wichern**

Dennis Wichern, of Indianapolis, Indiana, is a partner in Prescription Drug Consulting LLC, where he focuses his efforts on risk mitigation and compliance initiatives to protect healthcare organizations, pharmacies and providers nationwide. His experience includes 30 years of public service as a DEA Special Agent, Special Agent in Charge of the Chicago Field Division where he directed all criminal enforcement and diversion control operations in the states of Illinois, Indiana, Wisconsin, Minnesota and North Dakota with a team of approximately 550 employees.

Mr. Wichern is a recognized expert on the dangers of heroin and the prescription drug epidemic and routinely speaks to healthcare organizations, pharmacies and providers to identify methods to better safeguard their practices and reduce the professional and operational risks emanating from these threats. He was the first to develop CME programs addressing MAT and pain prescribing safeguards, federal regulatory and DEA compliance, credentialing and drug destruction. Mr. Wichern has been a guest lecturer on medical prescriber safeguards to audiences nationwide.

You may contact Mr. Wichern with your questions or comments at Dennis.Wichern@prescriptiondrugconsulting.com or by phone at 312-859-2430.





# PRESCRIPTION DRUG CONSULTING LLC

4000 W. 106<sup>TH</sup> ST., #125-328 CARMEL, INDIANA 46032 (312) 859-2430

# The DEA, Opioids and the Healthcare Provider Dennis Wichern

## Who I Am

- Retired DEA Special Agent in Charge Chicago.
- 30 years of experience.
- Worked through the Indiana "pill mill" crisis during 2005 through 2014.
- Have been partnering with medical community/prescribers for last 10 years through CS programs.
- Developer of CME and CLE prescription drug risk mitigation programs focusing on prescriber safeguards, DEA compliance, MAT, pain and drug destruction.
- I am not an attorney.
- Zero medical training.

# **Disclosure Statement**

- This is not a promotional talk for any pharmaceutical company.
- I will not discuss off-label/investigative use of any commercial product.

# **Presentation Outline**

- DEA Authority
- Opioid Case Studies & Red Flags
- · Emerging Issues
- DEA Resources
- Practice Safeguards

# What Drug Causes This?



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# Methamphetamine Use "Meth Mouth"



## Heroin User Photographs Seven Months Apart



# **DEA's Role with Medical Providers**

DEA's authority under the CSA is not equivalent to that of a State medical board. <u>DEA does not regulate the general practice of medicine.</u>

The responsibility for educating and training physicians so that they make sound medical decisions in treating pain (or any other ailment) lies primarily with medical schools, post-graduate training facilities, State accrediting bodies, and other organizations with medical expertise.

DEA's authority is limited to controlled substances only.

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### **DEA's Role with Controlled Substances**

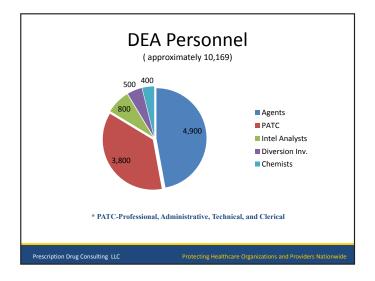
DEA's statutory responsibility under the Controlled Substance Act (CSA) is twofold:

- 1) prevent diversion and abuse of drugs
- 2) ensure an adequate and uninterrupted supply is available to meet the country's legitimate medical, scientific, and research needs.

DEA has no medical doctors on staff.

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## **DEA Focus**

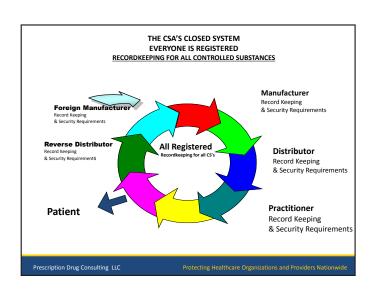
Primarily on Cartels, Gangs, and Criminal Organizations Trafficking, Heroin, Fentanyl, Cocaine and Methamphetamine

Not Against Medical Providers & Pharmacists

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# Controlled Substances Act of 1970 21 USC Legal foundation of federal government's authority for controlled substances and listed chemicals. Under the CSA, Congress established a "closed system" of distribution to prevent the diversion of controlled substances. All persons who lawfully handle controlled substances must be registered with DEA or exempt from registration. Ultimate users (patients) are not required to register with DEA to possess controlled substances.





# **Provider Licensing**

- 1. State Medical License
- 2. State Controlled Substance Registration
- 3. Federal Controlled Substance Registration (DEA) \$888 fee for three years.
- 4. X-Number (DEA & HHS) License to treat substance users. Must have license from SAMHSA. No additional fee.
- 5. All federal licenses contingent on state licenses

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# The Latest Numbers

DEA Registrants – 2021

- · Approximately 1.10 million MD's & DO's
  - o 200,000 Dentists
  - o 73,000 Vets
  - o 453,000 NP's & PA's
- 18,764 hospitals/clinics
- 70,681 Pharmacies
- · Approximately 330,000 pharmacists
- Approximately 400,000 pharmacy techs

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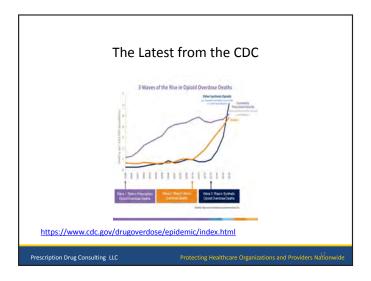
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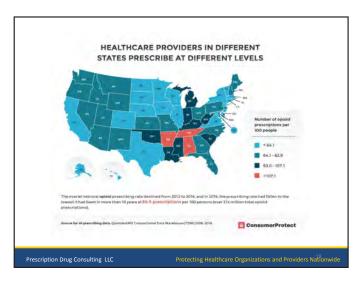
## Required Records – Controlled Substances CFR Part 1304

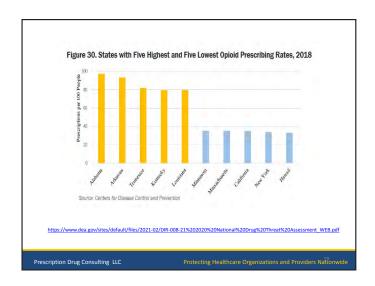
- POA's for II's
- Initial Inventory
- Biennial Inventory
- Closing Inventory
- Receiving Records, 222's or invoices 2 year federal retention
- Distribution Records
- Theft and Loss DEA Form 106 Report to LE
- Drug Destruction DEA Form 41 Reverse Distributors Return to Manufacturer
- Prescriptions vs Dispensing (Must keep dispensing records)

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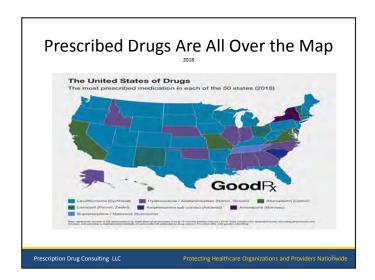
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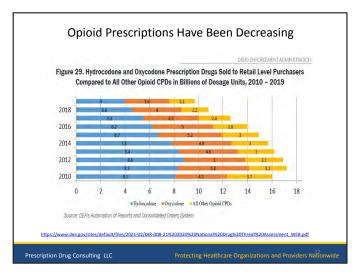


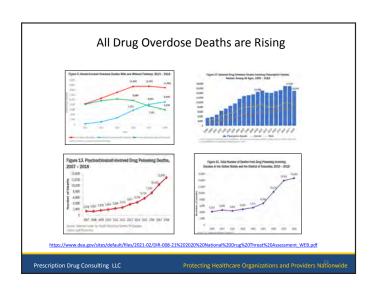












Give Me an Example of a Typical DEA Investigation

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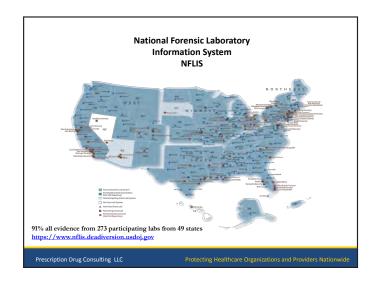
# What are the Red Flags? Complaints from LE, pharmacists & family members. Overdose deaths. Lines outside the office. Irregular hours. Cash only. And others. Usually not one thing but a combination of several.

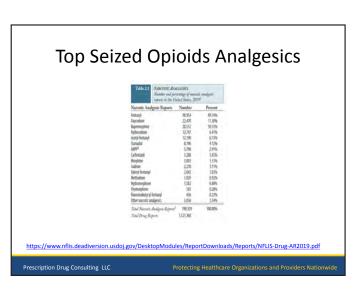


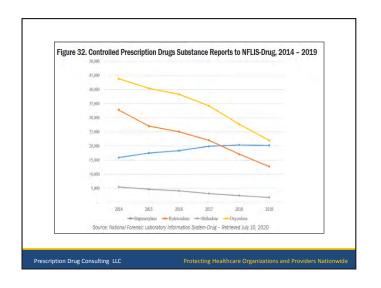




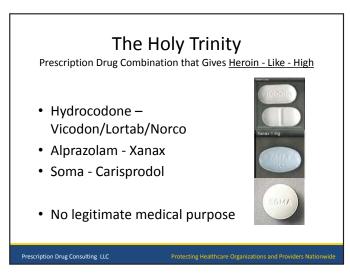






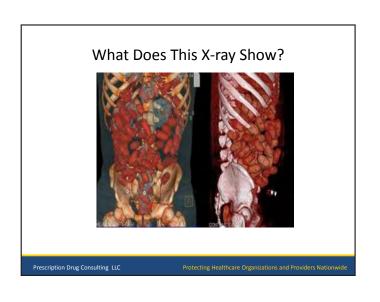












# X-Ray of Cocaine Pellet **Body Carrier**



# What are Possible Patient Red Flags?

- Patient has history of seeing multiple providers.
- Patient's providers are located at significant differences from patients residence.
- · Patient has opioid and benzo history.
- Patient has higher than normal ER visits.

# Walk me through some opioid prescribing case studies

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Appalachian Regional Prescription Opioid (ARPO) Strike Force Takedown Results in Charges Against 60 Individuals, Including 53 Medical Professionals

 In the Western District of Kentucky, a doctor was charged with controlled substance and health care fraud counts in connection with providing pre-signed, blank prescriptions to office staff who then used them to prescribe controlled substances when he was out of the office, and for directing staff at the clinic, including individuals not licensed to practice medicine, to perform medical services on patients.

s://www.justice.gov/opa/pr/appalachian-regional-prescription-opioid-arpo-strike-force-takedown-results-charges-against

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Appalachian Regional Prescription Opioid (ARPO) Strike Force Takedown Results in Charges Against 60 Individuals, Including 53 Medical Professionals

In the Eastern District of Kentucky, a total of five people were charged, including three doctors, a dentist and an office assistant who were charged in connection with several health care fraud and/or controlled substance schemes. In one case a doctor operating a clinic that focused on pain management allegedly provided pre-signed, blank prescriptions to office staff who then used them to prescribe controlled substances when he was out of the office.



Doctor sentenced to prison for prescribing narcotics to non-patients

SAVANNAH, Ga: Dr. Johnny Di Blasi, 46, of Braselton, Ga., was sentenced to 33 months in prison after pleading guilty.

As described in court filings and proceedings, Di Blasi, known as "Dr. Johnny," admitted writing prescriptions for narcotics, including opioids and amphetamines, to nonpatients – many of whom he never met. Di Blasi wrote the prescriptions through clinics he operated in Pooler, Ga., and Braselton, Ga., to individuals traveling from at least 11 states. In addition, Di Blasi also provided and sold prescriptions for opioid pain medications and amphetamines to non-patients he met in restaurants and bars. One of those receiving prescriptions was an individual who was in prison at the time the prescription was written.

https://www.justice.gov/usao-sdga/pr/doctor-sentenced-prison-prescribing-parcotics-non-patients

# What Did You Experience?

- Male
- Solo & small practices
- Over 50 years of age
- · More rural than urban
- GP & FP
- Cash linked
- · Small percentage

Appalachian Regional Prescription Opioid (ARPO) Strike Force Takedown Results in Charges Against 60 Individuals, Including 53 Medical Professionals

In yet another case, a Kentucky doctor was charged for allegedly prescribing opioids to Facebook friends who would come to his home to pick up prescriptions, and for signing prescriptions for other persons based on messenger requests to his office manager, who then allegedly delivered the signed prescriptions in exchange for cash.

# Dr. Ranochak Indictment



https://www.justice.gov/file/984456/download

- Doctor's office inside pharmacy
- Pharmacists decided who saw Dr.
- Patient files kept in pharmacy area
- Pharmacists took cash for UDS's Pharmacists counseled patients how to
- pass UDSs Pharmacists signed scrips for doctor Patients who failed UDSs paid cash
- Doctor charged more for early refills
- All prescriptions had to filled at
- pharmacy No exams by doctor
- 90% of business relied on patients tied to doctor

## What else should I know?

# **Urine Drug Screens**

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What About Urine Drug Screens? (No federal law on UDSs) Do You have a policy or contract in place?

### Positive Screens

- Using for pain good thing
- Using other drugs for how long?
- Terminate?
- · How often and how many?
- Methadone in screen?
- V
- NTP/OTP
- Importance of PMP use
- Other?
- Importance of following guidelines

### **Negative Screens**

- · Not good
- · Indicates diversion?
- Terminate patient?

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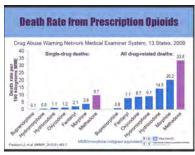
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# Methadone for Pain

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# Methadone Risk



https://www.cdc.gov/vitalsigns/methadoneoverdoses/infographic.html

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# **Patient Drug Disposal Options**



- Pharmacies
- Long-term Care Facilities
- · Hospitals/clinics
- Opioid Treatment Programs
- Police Departments

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# Drug Disposal Links

National Drug Take Back Day - every April and September

NABP https://safe.pharmacy/drug-disposal/
DFA

https://www.deadiver

Walgreens (multiple locations)

CVS (multiple locations)

https://www.cvs.com/content/safer-communities-locate

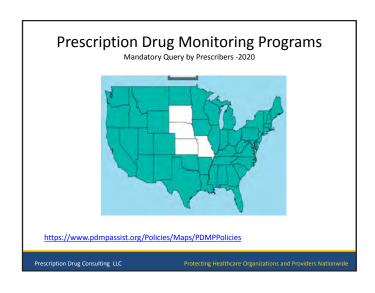


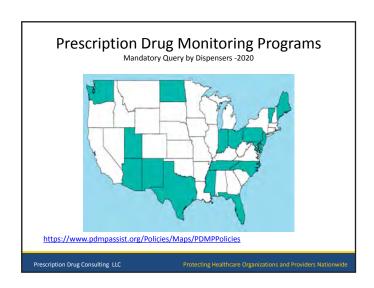


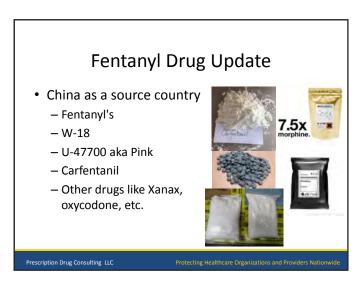
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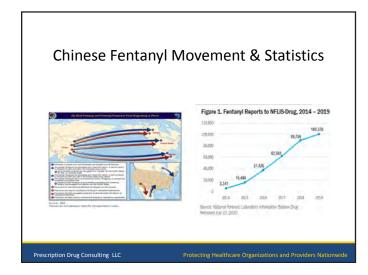
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# Prescription Drug Monitoring Programs Prescription Drug Consulting LLC Protecting Healthcare Organizations and Providers Nationwide



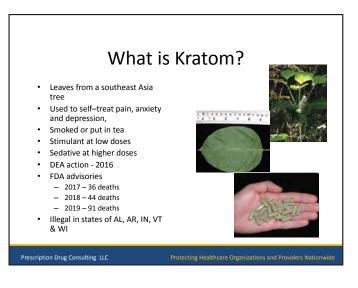






# What is My Government Doing on Opioid Epidemic? China partnerships Expanded treatment, NTP's & MAT New Fentanyl laws Prevention — Discovery Channel

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# 2014 & 2018 Federal Farm Bill's, Hemp & CBD

- Defined hemp as marijuana containing 0.3 or less of THC. (2014)
- Under this definition, hemp with less 0.3 or less is not a schedule I drug. (2018)

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## FDA's View on CBD

- New approved drug for epilepsy Epidiolex
- · Schedule V
- Yearly cost is \$32,500
- Contains less than 0.1% THC
- FDA's view and laws supersede 2018 hemp law & CBD

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# **DEA Press Release**

August 26, 2019

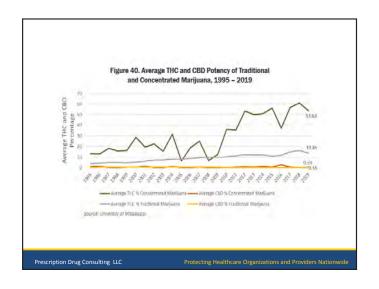
### **Hemp CBD is not a Controlled Substance**

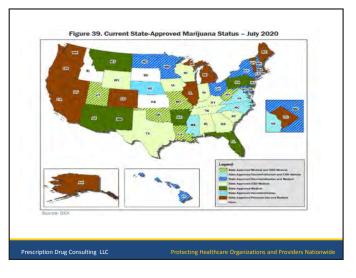
"This notice also announces that, as the result of a recent amendment to federal law, certain forms of cannabis no longer require DEA registration to grow or manufacture. The Agriculture Improvement Act of 2018, which was signed into law on Dec. 20, 2018, changed the definition of marijuana to exclude "hemp"—plant material that contains 0.3 percent or less delta-9 THC on a dry weight basis. Accordingly, hemp, including hemp plants and cannabidiol (CBD) preparations at or below the 0.3 percent delta-9 THC threshold, is not a controlled substance, and a DEA registration is not required to grow or research it."

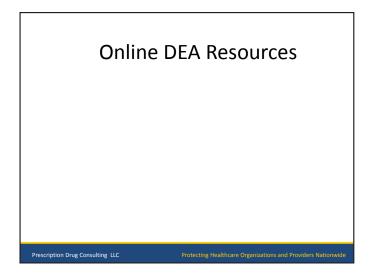
https://www.dea.gov/press-releases/2019/08/26/dea-announces-steps-necessary-improve-access-marijuana-research

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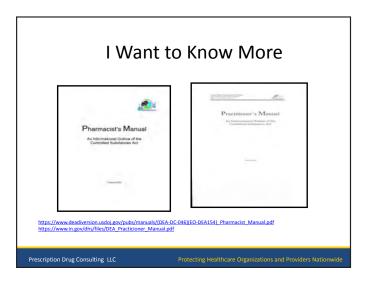














# Why is Marijuana Still a Schedule I Drug?

The federal Controlled Substance Act (CSA) was implemented in 1970 and has changed little over the years.

The FDA pursuant to federal law makes determinations as to what is medicine and has for over 50 years. Its scientific assessment team determines the safety and efficacy of drugs intended for human consumption.

The FDA has not approved marijuana as a medicine. (Marinol & Epidolex approved)

DEA places drugs into a Schedule (I through V) according to its accepted medical use and potential for abuse in consultation with the FDA pursuant to CSA .

Research: Over 350 researchers have been approved to study marijuana and DEA has never turned a researcher approved by the HHS (first step). DEA oversees security requirements.

https://www.dea.gov/divisions/hq/2016/Letter081116.pdf

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# My DEA Number has Been Stolen/Being Misused What Should I Do?

- Notify your area's pharmacies of the fraud and follow-up with email
- Notify your local law enforcement agency of the fraud and follow-up with an email documenting.
- Notify your local DEA office and follow-up with email.
- Assign one or two employees in your office as poc's to aid in pharmacist inquiries.
- Review your PDMP profile periodically.
- · Prosecution?
- Electronic prescribing should prevent.
- DEA will issue a new number.

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# **Locus Tenens**

- · Coordinate with DEA for license transfer.
- DEA number always contingent upon state license(s).
- Call (800) 882-9539 (8:30 am-5:50 pm EST) or <u>DEA.Registration.Help@usdoj.gov</u> to coordinate.
- Can get 2<sup>nd</sup> license also but.....

https://www.deadiversion.usdoj.gov/GDP/(DEA-DC-12)%20What%20is%20DEA's%20policy%20concerning%20Locum%20Tenens.pd

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# **E Prescribing**

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### **ELECTRONIC PRESCRIBING HISTORY**

2010 - DEA's Interim Rule

2011 – Minnesota 1st to mandate/w no penalties

2016 - New York 1st to mandate w/penalties

2016 - Maine was 3<sup>rd</sup>

2016 – 2021 – multiple states

2020 - DEA's Interim Rule Reopened

2021 - CMS Rule for Medicare Part D (1/2022)

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### THE SUPPORT ACT REQUIRES E-PRESCRIBING

The Substance Use-Disorder Prevention that Promotes Opioid Recovery and Treatment (SUPPORT) for Patients and Communities Act, enacted in 2018, requires Medicare Part D prescriptions of opioids and other controlled drugs be prescribed electronically beginning January 1, 2021.

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At this time, the DEA does not preclude the use of a mobile device, for the issuance of an electronic prescription for a controlled substance, if the encryption used on the device meets the latest security requirements set out in Federal Information Processing Standards (FIPS 140-2).

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# The value of E-Prescribing

(Similar to E-Banking?)

- Streamlined prescriber workflow/faster
- · Improved medication safety
- · Reduced drug diversion/fraud
- · Prescriber identification both assured and easier
- Single workflow for prescribing both controlled and noncontrolled drugs
- Instant connectivity between Providers, Pharmacy, health plans, medical records...
- · Access by all authorized clinicians

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# Disadvantages of E-Prescribing

- · System Failures and incompatibilities
- Power Outages
- Authentication Errors
- Improper patient selection from electronic lists
- Improper or difficult product selection
- Interfacing challenges between prescribers and pharmacies

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# DEA EPCS FAQ's

51 Total Q & A's

Satroduction

DEA's rule "Electronic Prescriptions for Controlled Substances."

A DEAX has, "Bestroom Recordance for Controlled Solidances" revision SEAN regulations to provide partitioners will the option of recording places (controlled solidances) in controlled solidances of the controlled solidances (controlled solidances) and architecture of the controlled solidances (controlled solidances). Read 3.1, 2015 and becomes effective on how 1, 2015.

In the way of electronial prescriptions for controlled solidances amountainty.

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Q. Did DEA consider public comment is the development of this rule:

A DEA considered almost 200 separate comments received from the public to the "directionic precisiones for Controlled Substances" National Proposed Automation (27 PR 9-1722, June 27, 2009) in the development of this rule.

A CEA worked change will a number of components within the Equations of Health and Health Carriers, CEA's discussions with the CRIVE of the Stational Considerable or match before the Evolution Centre for Medicine and Reductal Convolved (CRIV), and August of Healthcare Research and Custify (APRC)) were temberated in the development of the rate. CEA sho worked Cosely with the Relicional Institute of Standards and Technology and the Convolved Cosely with the Relicional Institute of Standards and Technology and the Convolved Cosely with the Relicional Institute of Standards and Technology and the Convolved Cosely with the Relicional Institute of Standards and Technology and the Convolved Cosely with the Relicional Institute of Standards and Technology and the Convolved Cosely with the Relicional Institute of Standards and Technology and the Convolved Cosely Administration Administrations.

https://www.deadiversion.usdoj.gov/ecomm/e\_rx/thirdparty.htm

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# **Final Thoughts on E-prescribing**

- · It's coming
- Consult with various state Boards for requirements & vendors - Medical Board, Pharmacy Board, Hospital Association, etc.
- Select experienced vendor that can link to your EMR/EHR
- Know the exceptions just in case
- Conduct training
- · Audit system at regular intervals

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# CDC Opioid Guidelines



# CDC Advises Against Misapplication of the Guideline for Prescribing Opioids for Chronic Pain

April 24, 2019

- Misapplication of recommendations to populations outside of the Guideline's scope.
- Misapplication of the Guideline's dosage recommendation that results in hard limits or "cutting off" opioids.
- The Guideline does not support abrupt tapering or sudden discontinuation of opioids.
- Misapplication of the Guideline's dosage recommendation to patients receiving or starting medication-assisted treatment for opioid use disorder.

 $\underline{https://www.cdc.gov/media/releases/2019/s0424-advises-misapplication-guideline-prescribing-opioids.html} \\$ 

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## AMA Letter to CDC

June 16, 2020

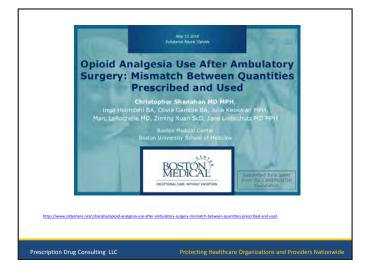
On behalf of the American Medical Association (AMA) and our physician and medical student members, the AMA appreciates the opportunity to review and comment on the Centers for Disease Control and Prevention (CDC) Guideline for Prescribing Opioids for Chronic Pain (CDC Guideline), originally published in 2016. We commend CDC's decision to open a public comment period to allow a broader group of important stakeholders the opportunity to provide their unique perspectives on the public health challenges faced by patients with pain, the unintended consequences of the CDC Guideline, and to provide constructive suggestions on how to revise and update the CDC Guideline to help it more effectively address the intersection of pain management, prescription opioid use, and opioid diversion, misuse, and unintentional overdose.

 $\frac{https://searchif.ama-assn.org/undefined/documentDownload?uri=\%2Funstructured\%2Fbinary\%2Fletter\%2FLETTERS\%2F2020-6-16-Letter-to-Dowell-re-Opioid-Re-Guideline.pdf}{}$ 

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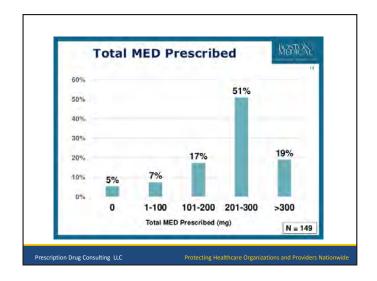
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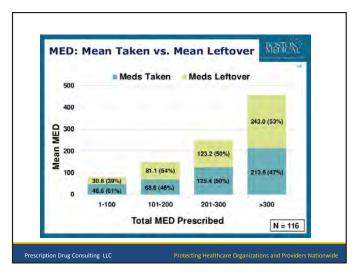
# **Opioid Surgery Study**

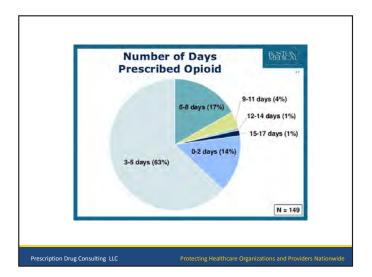


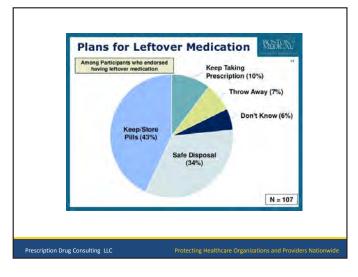
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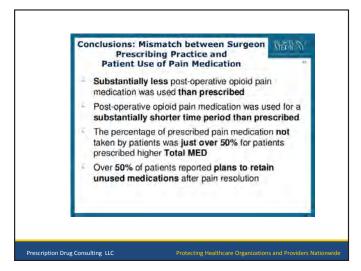
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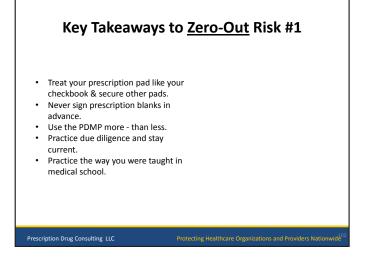












# Key Takeaways to Zero-Out Risk #2

- Prescribe over dispense in office setting (in-patient & hospital settings are different).
- Follow national/state/best practice guidelines whenever possible.
   Be extremely careful when prescribing methadone for pain.
- 99.9% of all medical providers never have an interaction with DEA.

# Questions

**Dennis Wichern** 

Dennis.Wichern@prescriptiondrugconsulting.com 312-859-2430

## **SELF EVALUATION**

# The DEA, Opioids and the Healthcare Provider

## True/False

1	All prescriptions for controlled substances shall be dated as of, and signed on, the day when issued.
2	Methadone can be prescribed for pain treatment but providers should be knowledgeable about its unique pharmacology.
3	The CDC opioid guidelines recommend that opioids and benzodiazepines should be prescribed together if at all possible.
4	The combination of an opioid, a benzodiazepine and SOMA is known as the Holy Trinity and gives one a synthetic heroin like high.
5	The federal definition of a valid prescription is: A prescription for a controlled substance to be effective must be issued for a legitimate medical purpose by an individual practitioner acting in the usual course of his professional practice.
6	The responsibility for educating and training physicians so that they make sound medical decisions in treating pain, addiction (or any other ailment) lies primarily with medical schools, post-graduate training facilities, State accrediting bodies, and other organizations with medical expertise.

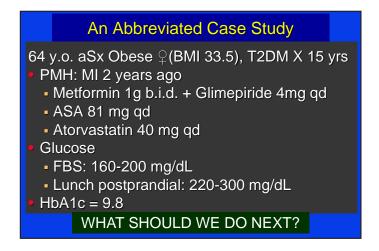
**Answer Key:** 1. T, 2. T, 3. F, 4. T, 5. T, 6. T, 7. T

DEA's authority is limited to controlled substances only.

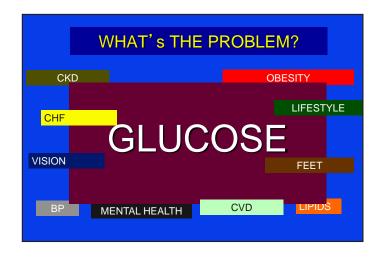
## LOUIS KURITZKY, MD

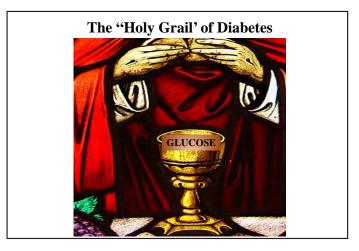
4510 NW 17th Place GAINESVILLE, FL 32605 (352) 377-3193 LKuritzky@aol.com

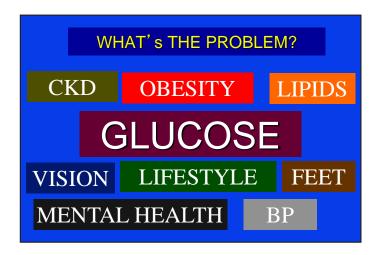
Type 2 Diabetes: New Approaches to Reducing Macrovascular Risk

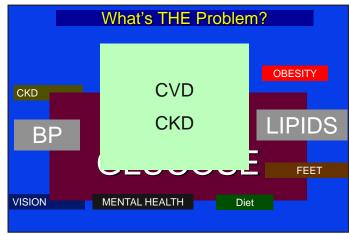


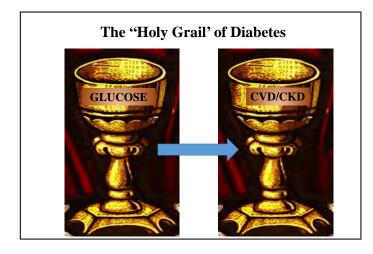












# Why CVD Reduction?

"ASCVD — defined as CHD, CVD disease, or PAD presumed to be of atherosclerotic origin — is the leading cause of morbidity and mortality for individuals with diabetes...."

ADA Standards of Medical Care in Diabetes 2019 Diabetes Care 2019;42(Suppl 1):S103-S123

# Mortal Consequences of Diabetes

"The average life expectancy of a 50-year old individual with DM is 6 years shorter than it would be without the disease."

Boena-Diez J et al *Diabetes Care* 2016;39:1987-1995

# Mortal Consequences of Diabetes: Why?

"DM not only doubles or quadruples CV risk, compared with the general population, but also leads to an increased risk of cancer..."

Boena-Diez J et al *Diabetes Care* 2016;39:1987-1995

# DM and Women: CV Mortality Nurses Health Study 1976-1996

Baseline Status n = 121,700 RNs age 30-55	CV Mortality RR
Control	1
DM no CHD	4.86
CHD no DM	7.46
CHD & DM	20.1

Hu FB, et al Arch Intern Med 2001;161:1717-1723

# Diabetes & Heart Failure

"Recent studies have found that rates of incident heart failure hospitalization....were twofold higher in patients with diabetes compared with those without....As many as 50% of patients with T2DM may develop heart failure."

ADA Standards of Medical Care in Diabetes 2019
Diabetes Care 2019;42(Suppl 1):S103-S123

# If CVD is KING, then..... (2019)

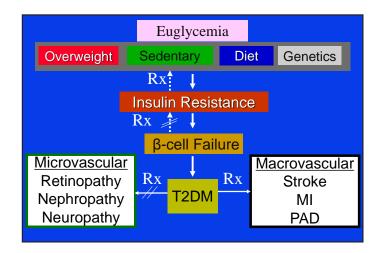
"Among patients with T2DM who have established ASCVD, SGLT2i or GLP1-RA with demonstrated CVD benefit are recommended as part of the antihyperglycemic regimen." A

ADA Standards of Medical Care in Diabetes 2019 Diabetes Care 2019;42(Suppl 1);S103-S123

# If CVD is KING, then..... (2020)

"For patients with established ASCVD or indications of high ASCVD risk (such as patients ≥55 ...with coronary, carotid, or lower extremity artery stenosis >50% or LVH), an SGLT-2-i or GLP-1RA with demonstrated CVD benefit is recommended as part of the glucose lowering regimen independent of A1c...."

ADA Standards of Medical Care in Diabetes 2020 Diabetes Care 2020;43(Suppl 1):S98-S110



# GLUCOTROL XL® (glipizide) Extended Release Tablets For Oral Use Prescribing Information

# Glucotrol XL Prescribing Information (2016) (glipizide)

### PRECAUTIONS

### General

**Macrovascular outcomes**: There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with GLUCOTROL or any other anti-diabetic drug

# Glucotrol XL Prescribing Information (2016) (glipizide)

### WARNINGS

SPECIAL WARNING ON INCREASED RISK OF CV MORTALITY: The administration of oral hypoglycemic drugs has been reported to be associated with <a href="increased">increased</a> cardiovascular mortality as compared to treatment with diet alone or diet plus insulin.

(Emphasis added)

## Glucotrol XL Prescribing Information (2016) (glipizide)

## WARNINGS SPECIAL WARNING ON INCREASED RISK OF CV MORTALITY:

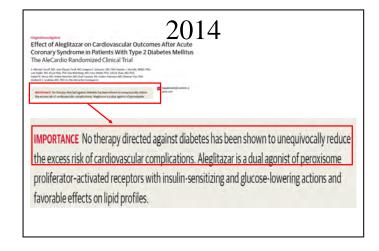
This warning is based on the study conducted by the UGDP, a long-term PCT trial designed to evaluate the effectiveness of glucose-lowering drugs in preventing or delaying vascular complications in patients with non-insulin-dependent diabetes.

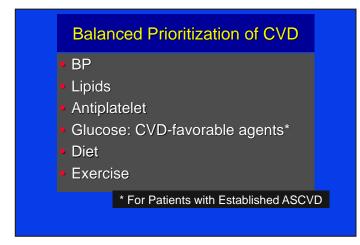
### **UGDP** (University Group Diabetes Program)

- Study: T2DM (n=823)
- Rx (X9 years): Diet +
  - Fixed dose insulin (weight based12-16 u/d)
  - Variable dose insulin (to normalize glucose)
  - SFU (Tolbutamide)
  - Placebo
- Outcome: Cardiovascular Events

Meinert CL "The Trials & Tribulations of the UGDP" 2015 Kelmscott Bookshop, Baltimore

# UGDP (University Group Diabetes Program) Diabetes 1970;19:(Suppl 2):747-830 Results: CV mortality SFU (Tolbutamide) vs diet: RR = 2.5\* Insulin vs diet: RR = ±1\*\* \*Glucotrol Pl. \*\*Meinert CL "The Trials and Tribulations of the UGDP" 2015 Kelmscott Bookshop, Baltimore

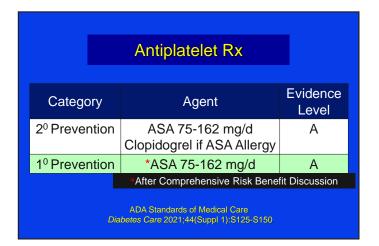


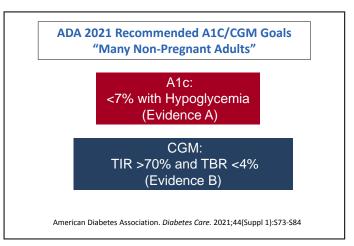




	Prim	Lipid Rx eary Prevention		
Age	CV Risk	Statin Intensity	Evidence	
<40-75		Moderate	Α	
50-70	High	High	В	
All Adults	10 yr CVD>20%	High May add ezetimibe	С	
20-39	RF+	Yes	С	
		standards of Medical Care re 2021;44(Suppl 1):S125-S150		

5	Lipid Rx Secondary Prevention	
Categorey	Statin Intensity	Evidenc e
	High	Α
ALL*	If high intensity not tolerated, use max tolerated lower intensity	Е
Very High Risk LDL ≥70	May add PCSK9 or ezetimibe	Α
A 00 > 75	If already on statin: continue	В
Age >75	Maybe start after R:B discussion	С
D	Statin contraindicated in pregna ADA Standards of Medical Care Abetes Care 2021;44(Suppl 1):S125-S150	ancy





ADA 2021 Recommended A1C/CGM Goals When A1c << 7% Might Be Appropriate

"On the basis of provider judgment and patient preference...lower A1c levels than the goal of 7% may be acceptable, and even beneficial, if it can be achieved safely without significant hypoglycemia or other adverse effects of Rx" (Evidence Level C)

American Diabetes Association. Diabetes Care. 2021;44(Suppl 1):S73-S84

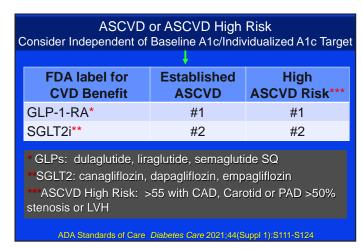
ADA 2021 Recommended A1C/CGM Goals When A1c <8% Might Be Appropriate

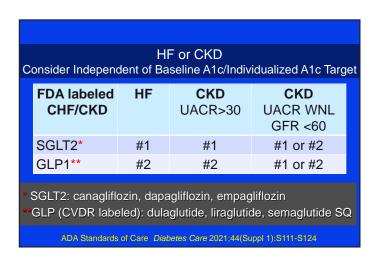
"Less stringent A1c goals (such as 8%) may be appropriate for patients with limited life expectancy, or where the harms of Rx are greater than the benefits."

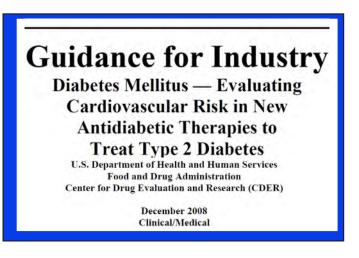
(Evidence Level B)

American Diabetes Association. Diabetes Care. 2021;44(Suppl 1):S73-S84









"Specifically, this guidance makes recommendations about how to demonstrate that a new antidiabetic therapy to treat T2DM is not associated with an unacceptable increase in CV risk."

Emphasis added

https://www.fda.gov/downloads/drugs/guidancecomplianceregulatory information/guidances/ucm071627.pdf accessed January 6, 2019

How Does Industry Respond to the FDA 2008 Guidance for Industry?

Performing Non-inferiority Trials

New Drug A vs Placebo added to existing Rx

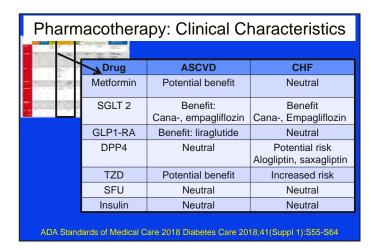
https://www.fda.gov/downloads/drugs/guidancecomplianceregulatoryinformation/guidances/ucm071627.pdf accessed January 6, 2019

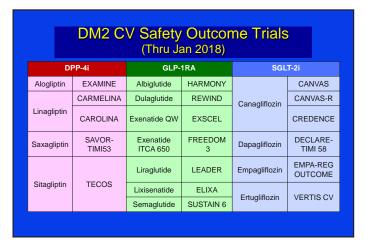
# What Does a Non-Inferiority Trial Demonstrate? "New Drug A has been found to be 'noninferior' to Old Drug B" means: NO Drugs A and B are equally effective YES New Drug A is not more than a specific or amount less effective than Old Drug B YES New Drug A (given, usually, similar efficacy), is not more than a specific amount more toxic than Old Drug B

What Does "Non-Inferiority" Mean In Terms of CV Outcomes for New T2DM Drugs?

New Drug A incurs <30% increase in CV risk

https://www.fda.gov/downloads/drugs/guidancecomplianceregulator yinformation/guidances/ucm071627.pdf accessed January 6, 2019





CV Safety Trial Showin Canagliflozin	g CV F	Risk RE	DUCTION
Endpoint  a = primary endpoint  = all p < 0.05		100 pt- ars Pbo	Hazard Ratio* (95% CI)
CV death, nonfatal MI & stroke	2.69	3.15	0.86 (0.75-0.97)
HF hospitalization	0.55	0.87	0.67 (0.52-0.87)
CV death or HF hospitalization	1.63	2.08	0.78 (0.67-0.91)
Progression of albuminuria	8.94	12.87	0.73 (0.67-0.79)
40% ↓ eGFR, renal dialysis or transplantation, renal death	0.55	0.90	0.60 (0.47-0.77)
Neal B, et al. N Engl J Med. 201	7;doi:10.10	56/NEJMoa1	611925.

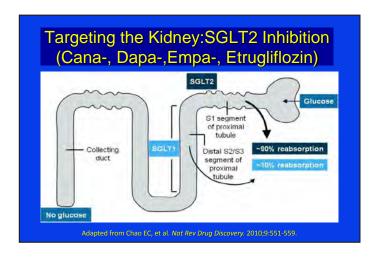
CV Safety Trial Showin Empagliflozin	g CV F	Risk RE	DUCTION
Endpoint  a = primary endpoint		100 pt- ars	Hazard Ratio * (95% CI)
* = all p < 0.05	Empa	Pbo	
CV death, nonfatal MI & stroke	3.74	4.39	0.86 (0.74-0.99)
All cause mortality	1.94	2.86	0.68 (0.57-0.82)
CV death	1.24	2.02	0.62 (0.49-0.77)
HF hospitalization	0.94	1.45	0.65 (0.50-0.85)
HF hospitalization of CV death (excluding fatal stroke)	1.97	3.01	0.66 (0.55-0.79)
Zinman B et al <i>N Engl J Me</i>	ed. 2015;373	3(22):2117-2	128

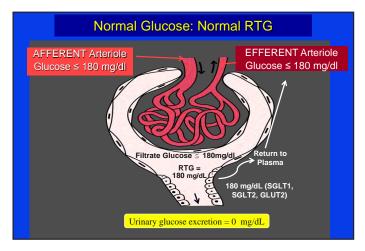
ng CV F	Risk RE	DUCTION
		Hazard Ratio
		(95% CI) *
3.4	3.9	0.87 (0.78-0.97)
5.3	6.0	0.88 (0.81-0.96)
2.1	2.5	0.85 (0.74-0.97)
1.2	1.6	0.78 (0.66-0.93)
2.0	2.3	0.84 (0.73-0.97)
1.86	3.06	0.78 (0.67-0.92)
	Rate/1 ye Lira 3.4 5.3 2.1 1.2 2.0	3.4     3.9       5.3     6.0       2.1     2.5       1.2     1.6       2.0     2.3

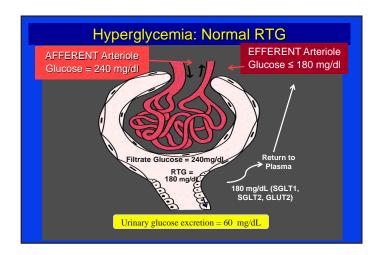
Endpoint  a = primary endpoint		100 pt- ars	Hazard Ratio (95% CI)
* p < 0.05	Sema	Pbo	
CV death, nonfatal MI & stroke <sup>a</sup>	3.24	4.44	0.74 (0.58-0.95
1 <sup>0</sup> + revascularization, unstable angina, or HF hospitalization	6.17	8.36	0.74 (0.62-0.89
All cause mortality	1.82	1.76	1.05 (0.74-1.50
CV mortality	1.29	1.35	0.98 (0.65-1.48
Nonfatal stroke	0.80	1.31	0.61 (0.38-0.99
New or worsening nephropathy	1.86	3.06	0.64 (0.46-0.88

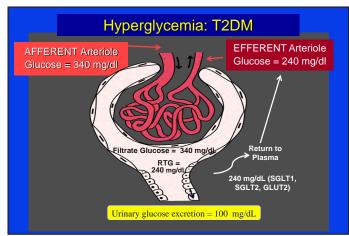


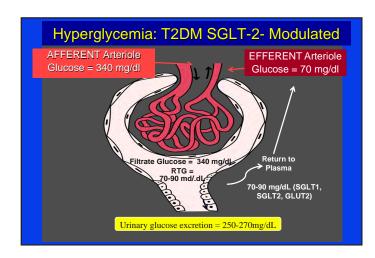


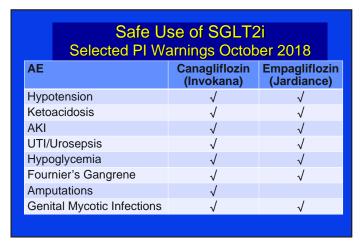


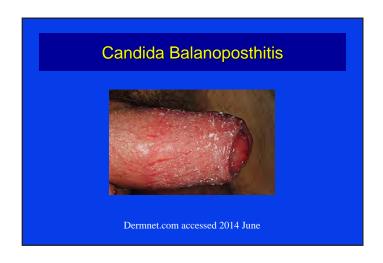














### **Balanitis Rx**

- Clotrimazole 1% cream b.i.d. X 1-3 weeks
- Miconazole 2% cream b.i.d. X 1-3 weeks
- Nystatin 100,000 u/g b.i.d. X 1-3 weeks
- Fluconazole 150 mg PO X 1

+

Hydrocortisone cream if inflammation problematic



Exenatide (Byetta, Bydureon)
Liraglutide (Victoza, Saxenda)
Dulaglutide (Trulicity)
Lixisenatide (Adlyxin)
Semaglutide (Ozempic)

### The 'Magic' of GLP-1-RA Physiologic Effects of GLP-1

- Blunted glucose-dependent glucagon secretion
- Augmented glucose-dependent insulin secretion
- Enhanced satiety
- Modulation of gastric emptying

Gallwitz B Int J Clin Pract 2006;60(12):1654-1661

## GLP1 Benefit #1 Blunted Glucagon Secretion

- Alpha cell function is impaired in T2DM
  - Glucagon should only be elevated when glucose is low
  - In T2DM, FASTING glucagon levels are elevated¹
  - In T2DM, glucagon levels RISE after a meal (→ worsening hyperglycemia)¹

Del Prato S et al Horm Metab Res 2004;36:775–781

# GLP1 Benefit #2 Enhances Glucose Dependent Insulin Secretion

- Insulin secretagogues (eg, sulfonylurea)
  - Stimulate insulin secretion irrespective of ambient glucose levels
  - Continue to stimulate insulin secretion in the face of hypoglycemia
  - Long-acting agents can → protracted episodes of hypoglycemia
- GLP1→ insulin secretion ONLY when glucose elevated: minimizes hypoglycemia

Drucker DJ Diabetes Care 2003;26:2929-2940

### GLP1 Benefit #3 Improved Satiety

Believed to be a CNS effect
Associated with WEIGHT LOSS
Weight loss NOT attributable to nausea
Similar weight loss NOT seen with DPP4

Meier JJ, Nauck MA Best Pract Res Clin Endocrinol Metab 2004;18:587-606

# GLP1 Benefit #4 Modulation of Gastric Emptying

- 1st-Phase insulin (preformed) absent in T2DM¹
- Dietary CHO ingestion → exaggerated plasma glucose from to sluggish insulin response due to absent preformed insulin
- Delay in delivery of gastric contents to intestine allows sluggish β-cell better provision of insuling
- Alpha glucosidase inhibitors have favorable glucose effects simply by slowing glucose absorption

<sup>1</sup>Marchetti P et al *J Clin Endocrinol Metab* 2004;89:5535–5541

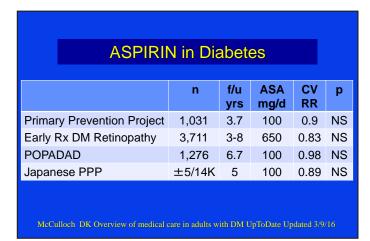
GI	LP1-RA vs	DPP4i
Property	GLP-1RA	DPP-4i
МОА	GLP-1RA	GLP/GIP degradation inhibitor
Route	SQ	РО
A1C $\Delta$	Up to 2%	Up to 1%
Gastric emptying	Slowed	No $\Delta$
Promotes satiety	Yes	No
Weight	Decreased	Neutral
	ab. 2006 Mar;3(3):153-165; 17-414; Neumiller JJ. Clin T.	Lund A, et al. <i>Eur J Intern Med.</i> her. 2011:33(5):528-576.

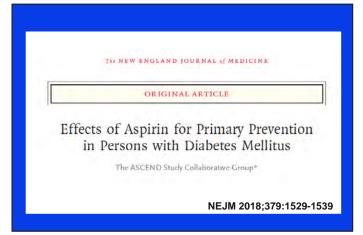
### Diabetes & Heart Failure

"Recent studies have found that rates of incident heart failure hospitalization....were twofold higher in patients with diabetes compared with those without....As many as 50% of patients with T2DM may develop heart failure."

ADA Standards of Medical Care in Diabetes 2019 Diabetes Care 2019;42(Suppl 1):S103-S123

Diabetes & Heart Failure Risk				
Class	Agent	Trial	RR vs placebo	
DPP4i	Saxagliptin	SAVOR-TIMI	1.27 (1.07-1.51)*	
	Alogliptin	EXAMINE	1.19 (0.90-1.58)	
	Sitagliptin	TECOS	1.00 (0.83-1.20)	
GLP1 RA	Lixisenatide	ELIXA	0.96 (0.75-1.23)	
	Semaglutide	SUSTAIN	1.11 (0.77-1.61)	
	Liraglutide	LEADER	0.87 (0.73-1.05)	
	Exenatide QW	EXSCEL	0.94 (0.78-1.13)	
SGLT2i	Empagliflozin	EMPA-REG	0.65 (0.50-0.85)*	
	Canagliflozin	CANVAS	0.77 (0.55-1.08)	
	Canagliflozin	CANVAS-R	0.56 (0.38-0.83)*	
ADA Standards of Medical Care in Diabetes 2019 Diabetes Care 2019;42(Suppl 1):S103-S123				





Effects of Aspirin for Primary Prevention in Persons with Diabetes Mellitus

The ASCEND Study Collaborative Group\*\*

BACKGROUND

"DM is associated with an increased risk of CV events.
ASA use reduces the risk....but increases the risk of bleeding; the balance of benefits and hazards for the prevention of 1st CV events in patients with DM is unclear."

NEJM 2018;379:1529-1539

### DM: ASA for 1º Prevention The ASCEND Trial

- DBRPCT Adult DM (n=15,480)
- Rx ASA 100 mg/d vs placebo X 7.4 yrs
- Inclusion:
  - Age >40 (mean = 63)
  - No known CVD
- Outcomes: CV events, major bleeding

ASCEND Study Collaborative Group NEJM 2018;379:1529-1539

### DM: ASA for 10 Prevention The ASCEND Trial

	ASA	PBO	RR	p
CV Events	8.5%	9.6%	0.88	0.01
Major Bleed	4.1%	3.2%	1.29	0.003
GI CA	2.0%	2.0%	1	NS
All CA	11.6%	11.5%	1	NS

ASCEND Study Collaborative Group NEJM 2018;379:1529-1539

### DM: ASA for 10 Prevention The ASCEND Trial

### CONCLUSIONS

"ASA use prevented serious vascular events....but it also caused major bleeding...The absolute benefits were largely counterbalanced by the bleeding hazard."

ASCEND Study Collaborative Group NEJM 2018;379:1529-1539

### Conclusions

- The most important T2DM 'end-game' has always been CVD, however....
- Only recently has focus shifted to magnify the role of Rx that is favorable for CVD and CKD as top priority
- For ASA, the balance is delicate

### **SELF EVALUATION**

### Type 2 Diabetes: New Approaches to Reducing Macrovascular Risk

- 1. Until the year 2016, which pharmacotherapies for T2DM had shown mortality benefit?
  - a. Sulfonylurea
  - b. Metformin
  - c. Thiazolidinedione
  - d. None of the above
- 2. The first hypoglycemic agent to demonstrate CV risk reduction in type 2 diabetes was
  - a. An SGLT2 inhibitor (empagliflozin)
  - b. An alpha-glucosidase inhibitor (miglitol)
  - c. A sulfonylurea (glimepiride)
- 3. In a non-inferiority trial, New Drug "B" was found to be non-inferior to Old Drug "A". This means:
  - a. New Drug B and Old Drug A are equivalent
  - b. New Drug B should replace Old Drug A
  - c. New Drug B is not more than a small margin less effective or safe than Old Drug A
- **4.** CV safety trials with GLP agents in type 2 diabetes have shown
  - a. All GLP-RA drugs improve CV outcomes
  - b. Only liraglutide improves CV outcomes
  - c. Only exenatide improves CV outcomes
  - d. Liraglutide, parenteral semaglutide, and dulaglutide are the only GLP1-RA proven to reduce CV enpoints
- 5. A patient with T2DM and CKD would likely achieve the most CKD benefit most from
  - a. An SGLT2 agent (e.g., canagliflozin, dapagliflozin, empagliflozin)
  - b. A GLP-1-RA (eg., dulaglutide, exenatide, liraglutide)
  - c. A sulfonylurea (e.g., glimepiride, glipizide, glibenclamide)
  - d. A basal insulin (e.g., glargine, detemir, degludec)

Answer Key: 1. D, 2. A, 3. C, 4. D, 5. A

# **FACULTY**

### Dilip K. Moonka, MD, FAST, FAASLD

Dilip K. Moonka, MD, FAST, FAASLD, of Detroit, Michigan, is the Medical Director of Liver Transplantation at Henry Ford Hospital. He received his medical degree from Stanford University, trained in gastroenterology and hepatology at the University of Pennsylvania, and is board certified in internal medicine, gastroenterology and transplant hepatology. Dr. Moonka has won numerous teaching awards from both the Department of Medicine and the Division of Gastroenterology and he conducts both clinical and bench research in liver transplantation, viral hepatitis and liver cancer with numerous publications in these areas. He is a Fellow of the American Association for the Study of Liver Disease (FAASLD) as well as the American Society of Transplantation (FAST), and speaks or consults for Gilead, Intercept and AbbVie.

You may contact Dr. Moonka at dmoonka1@HFHS.org.





### DEPARTMENT OF INTERNAL MEDICINE

Henry Ford Hospital & Medical Centers

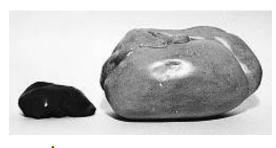
2799 West Grand Blvd Detroit, Michigan 48202-2689 313.916.8238 Office 313.916.4009 Fax

Dilip Moonka, MD, FAST, FAASLD Medical Director of Liver Transplantation

**Division of Gastroenterology and Hepatology** 

### Non-Alcoholic Fatty Liver Disease & Alcoholic Hepatitis

### FAT AND THE LIVER

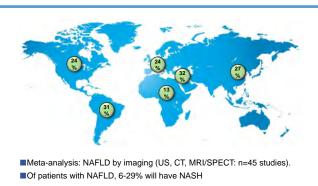


IT'S BAD FOR PEOPLE TOO

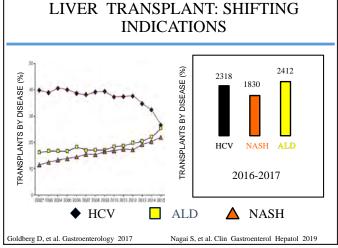
# NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD)

- NAFLD is a burgeoning problem in the US and the world because of an increase in metabolic syndrome
- In evaluating patients with NAFLD, the critical distinction is between simple steatosis and non-alcoholic steatohepatitis
- The emphasis in evaluating and staging NAFLD is on non-invasive modalities
- Medical therapy for NAFLD is evolving

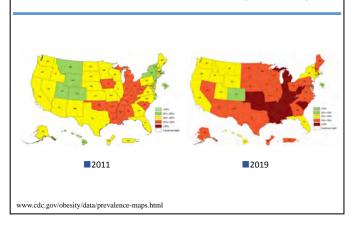
# NAFLD: ESTIMATED GLOBAL PREVALENCE: 25%



Younossi ZM, et al. Hepatology 2016



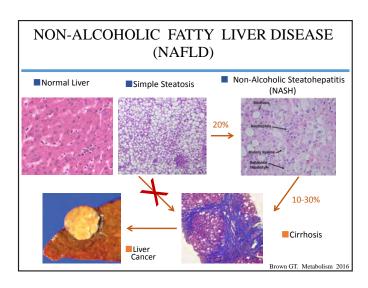
### CDC: U.S. OBESITY TRENDS (BMI > 30)



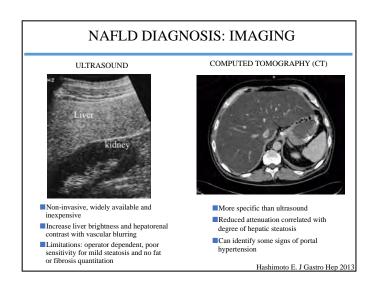
## NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD): DEFINITION

- ■Evidence of fat in the liver (hepatic steatosis) on imaging or histology
  - Usually asymptomatic
  - Evaluation prompted by abnormal liver transaminases or incidental finding on imaging ordered for another reason
- Lack of other cause of hepatic steatosis or liver disease
- Diagnosis is not excluded by a normal AST or ALT
  - •25-50% of patients with NAFLD will not have ALT elevations
  - Current normal ranges for ALT are probably too high

### NAFLD: ETIOLOGY Dyslipidemia Most common and best High triglycerides documented risk factor for NAFLD High cholesterol to HDL ratio > 95% undergoing bariatric surgery 50% of patients in lipid clinics Ethnicity ■Type 2 Diabetes (T2DM) Hispanics 1 33-66% will have NAFLD African-Americans Bidirectional association Patatin-like phospholipase domain-containing protein 3 Hypertension (PNPLA-3) • rs738409 C>G variant

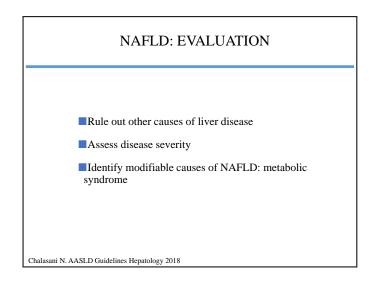


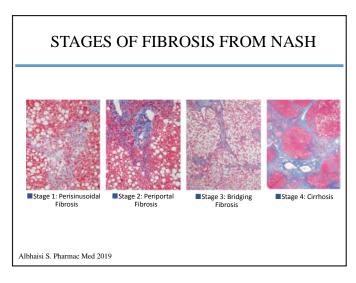
# NAFLD: DIAGNOSIS AASLD: Does not advise the routine screening for NAFLD in high risk groups, including those with diabetes or an elevated BMI. Uncertainties around diagnostic testing Lack of linkage of screening to long-term benefits Lack of medication based treatments Chalasani N. AASLD Guidelines Hepatology 2018

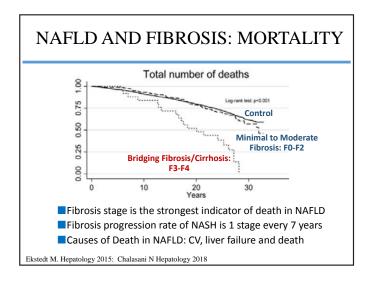


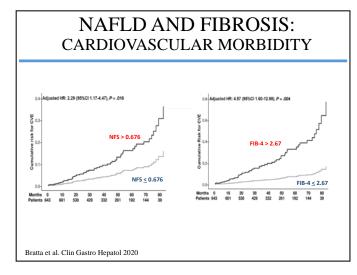
# NAFLD: DIAGNOSIS Critical to rule out other causes of hepatic steatosis or liver disease Alcoholic Liver Disease Viral Hepatitis (Hepatitis C Antibody and Hepatitis B surface Antigen) Autoimmune liver disease (ANA, ASMA and AMA) Wilson's, Hemochromatosis and alpha-1 antitrypsin deficiency Medications that can cause steatosis Corticosteroids Antiretrovirals (HAART), Amiodarone, Methotrexate, Parenteral Nutrition, Tamoxifen, valproic acid Serum ferritin is frequently elevated in NAFLD Up to 20% of NAFLD patients can have positive autoimmune markers

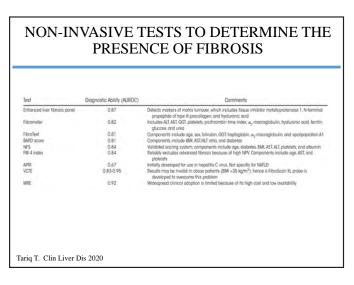
# PHOSPHATIDLYETHANOL (PETH) TEST Phospholipid formed only in presence of alcohol Alcohol consumption in the last 28 days Sensitivity of 90% for two or more drinks a day Specificity of 100% with threshold of 20 ng/dl Validated as a quantitative test Negative with unintentional, low-level ETOH use Not affected by age, sex, anemia or renal function Validated in liver disease Send out lab with turn around of two weeks: \$75 Positive in 23.8% of ALD transplant patients who deny ETOH

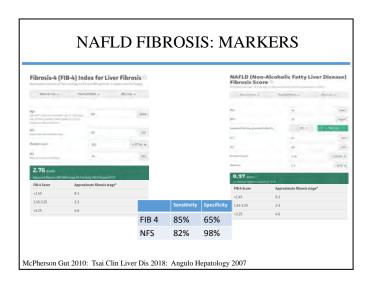


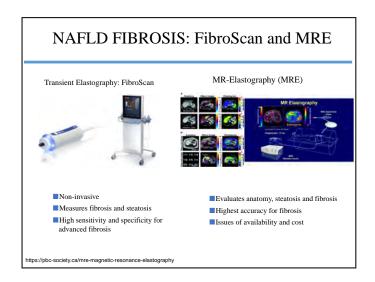


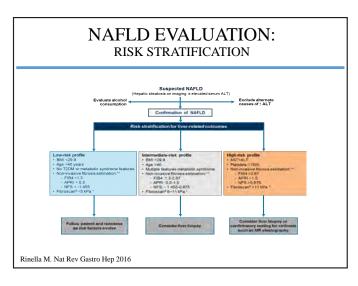


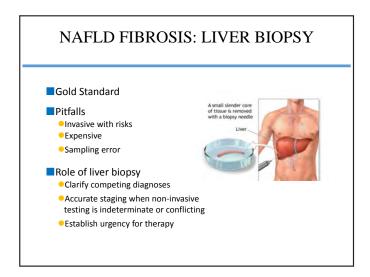


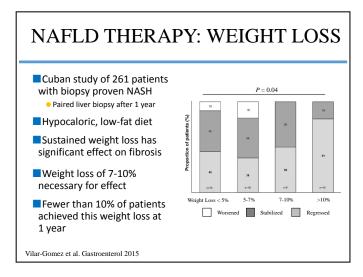


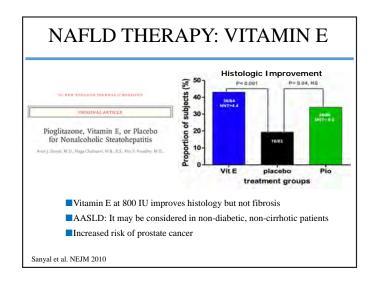


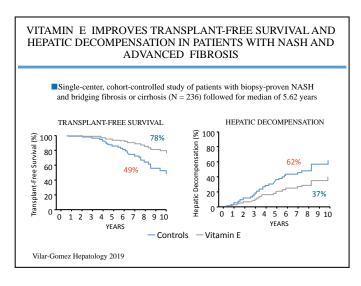


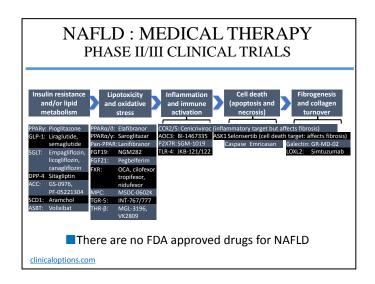


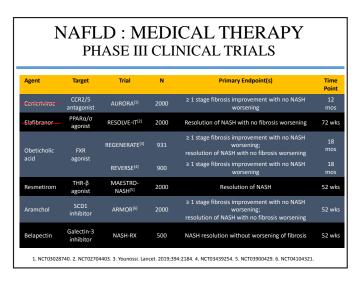


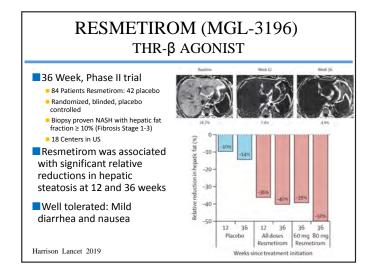


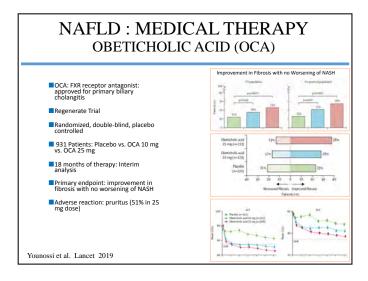


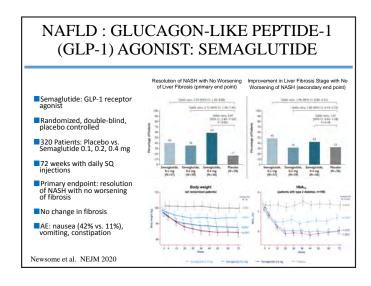


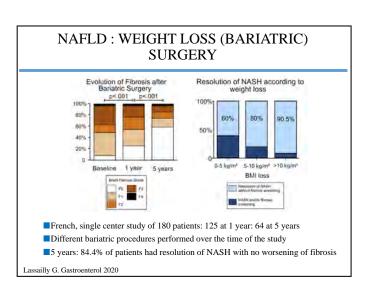


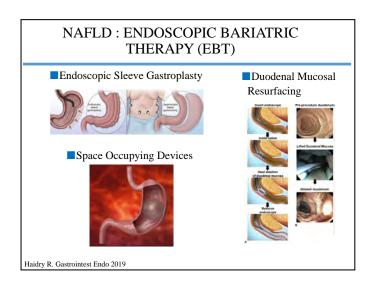












### **NAFLD: CONCLUSIONS**

- NAFLD and NASH are common and increasing causes of disease morbidity and mortality
- In evaluating patients with NAFLD, the critical distinction is between simple steatosis and NASH
- Fibrosis is a surrogate marker for NASH and has prognostic value in its own right
- A variety of non-invasive instruments are available for evaluating fibrosis in NASH
- Medical therapy is evolving but there is no current FDA approved, medical therapy for NASH
- Bariatric surgery and bariatric endoscopic therapy are options.

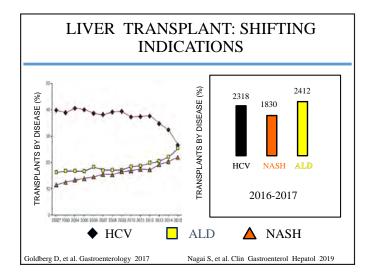
### ALCOHOLIC HEPATITIS

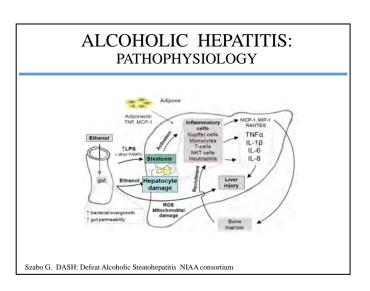
- Acute process in the setting of heavy, sustained and recent ETOH use
- Characterized by an acute and progressive rise in
- Typically a clinical diagnosis
  - Liver biopsy not necessary unless suspicion of other etiology
- 25-50% of patients will have underlying cirrhosis

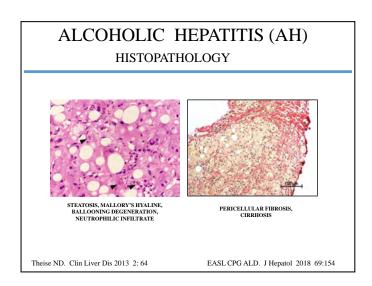
### ALCOHOL USE IN UNITED STATES

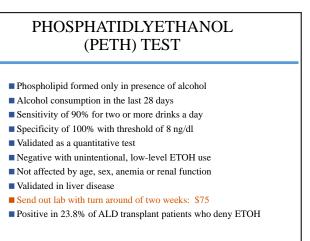
- 5% of all deaths attributed to alcohol: directly or indirectly
  - 88,000 deaths a year
- 10% average more than two drinks a day
  - Men 18%
  - Women 3%
- $\blacksquare$  5% of US population classified as heavy drinkers (30-60 g/day)
  - Steatosis 90%
  - Alcoholic hepatitis 10-35%
  - 8-20% alcoholic cirrhosis

Singal AK, et al. ACG Guidelines. Am J Gastroenterol 2018





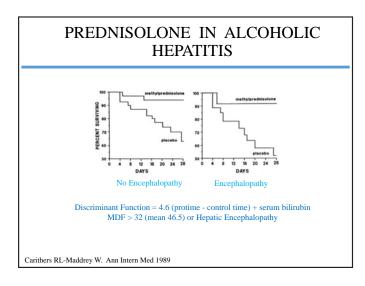


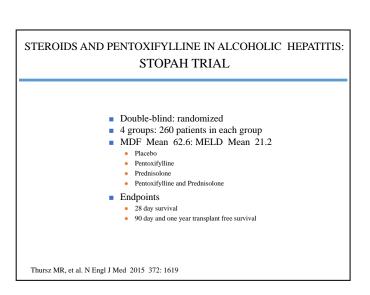


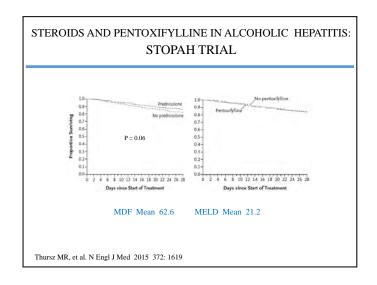


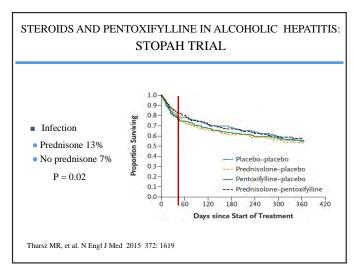
# ALCOHOLIC HEPATITIS: THERAPY ■ Abstinence ■ Hydration ■ Nutrition ■ Treatment of kidney injury ■ Identification and treatment of infection

Fleming MF, et al. Alcohol Clin Exp Res 2017 41: 857

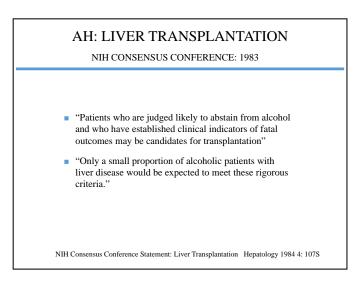


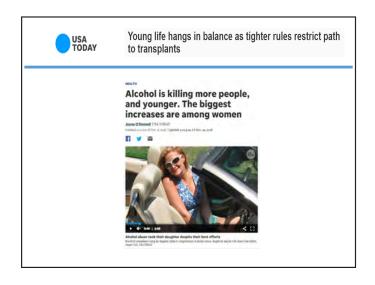


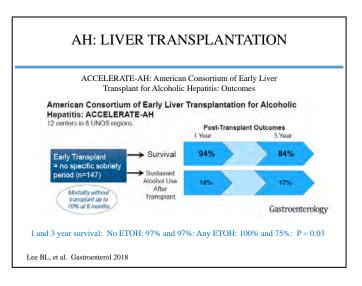




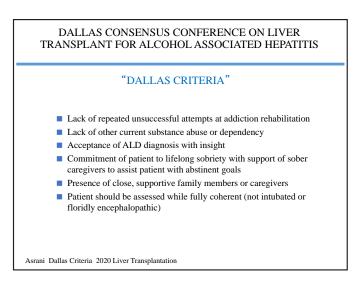
# STEROIDS IN ALCOHOLIC HEPATITIS: Lille Model Six readily available variables Bilirubin is calculated on Day 1-7 Lille score > 0.56 means poor response to prednisolone Steroids should be avoided MDF < 32 Infection Active gastrointestinal hemorrhage Acute kidney injury

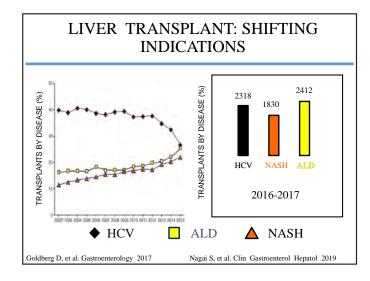


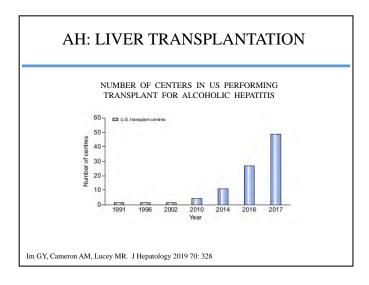




# AH: LIVER TRANSPLANTATION ACCELERATE-AH: American Consortium of Early Liver Transplant for Alcoholic Hepatitis: Recidivism 129 patients Sustained use > 100 days and drinking at time of last visit (vs. Siip) 7 of 12 centers used laboratory testing? 1 and 3 year ETOH use: 26% and 33% 1 and 3 year ETOH use: 26% and 16% SALT Score ≥ 5 Positive predictive value 25% Negative predictive value 95% Positive predictive value of SALT score of 11 is 50% Lee BL, et al. Hepatology 2019

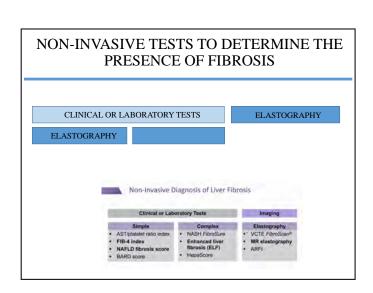






# AH is a major cause of morbidity and mortality in the United States and the World Primary management is abstinence and supportive care Corticosteroids can be considered in appropriate patients using stopping rules based on the Lille Model Liver Transplant can be considered in select patients with on-going alcohol use with low rates of relapse

ALCOHOLIC HEPATITIS: CONCLUSIONS



### **SELF EVALUATION**

### Non-Alcoholic Fatty Liver Disease & Alcoholic Hepatitis

- 1. Which is true of NAFLD?
  - NAFLD is a growing problem and is now the leading indication for liver transplant in the US.
  - b. NAFLD is primarily a medical problem in Europe and North America.
  - c. NAFLD will lead to significant liver damage in a majority of affected
- 2. In evaluating patients with NAFLD, which is true?
  - Typically a normal ALT rules out NAFLD.
  - Non-invasive modalities can reliably distinguish simple steatosis from NASH.
  - NAFLD is associated with metabolic syndrome and ethnicity does not play

- individuals.
- d. A majority of individuals with NAFLD will not have non-alcoholic steatohepatitis (NASH).
- e. Rates of obesity in the US were increasing but have been stable since 2015.
  - a significant role.
- d. On ultrasonography, fat in the liver is echogenic and a "fatty liver" will appear dark.
- e. The phosphatidylethanol (PETH) test is a reliable test to rule out significant alcohol use.
- 3. Which of the following are have been shown to slow or reduce fibrosis in NAFLD?
  - a. Bariatric surgery
  - b. Weight loss
  - c. Obeticholic acid

- d. All of the above
- e. None of the above
- **4.** Which is true of medical therapy for NAFLD?
  - For medical therapy to work, it must be given when patients have simple steatosis and before they develop NASH.
  - b. Vitamin E did showed improvements in fibrosis in patients with NASH but

- has been linked to prostate cancer.
- c. There are no approved medical therapies for NAFLD.
- d. GLP-1 agonists are effective, result in weight loss and are well tolerated.
- e. All are true.
- **5.** Which of the following is false about alcoholic hepatitis?
  - Alcoholic hepatitis can reliably distinguished from NASH on liver biopsy.
  - b. 25-40% of at patients with alcoholic hepatitis will also have alcoholic cirrhosis.
  - c. Pentoxifylline has no efficacy in the

- treatment of alcoholic hepatitis
- d. Corticosteroids have not been shown to be of long term benefit in alcoholic hepatitis.
- e. The phosphatidylethanol test can measure significant alcohol use as far back as two to four weeks.
- **6.** Which of the following statements is true about alcoholic hepatitis and liver transplant?
  - Alcoholic liver disease is a potential indication for liver transplant only after a defined period of abstinence proven with phosphatidylethanol testing.
  - Alcoholic liver disease is now the leading indication for liver transplant in the US
  - Liver transplant for alcoholic hepatitis is performed by a small but growing number of transplant centers.
- d. Patients with alcoholic hepatitis are candidates for liver transplant per the "Dallas" criteria if they have had no more than three prior attempts at alcohol treatment
- e. Patients undergoing liver transplant for alcoholic hepatitis have worse survival because the inflammation set off by the alcohol attacks the new liver

**Answer Key:** 1. D, 2. E, 3. D, 4. C, 5. A, 6. B

# **FACULTY**

### Michael S. Byrd, Esq.

Michael S. Byrd, Esq., of Dallas, Texas, is partner of ByrdAdatto, a business and health care boutique law firm with offices in Dallas and Chicago. As the son of a doctor and entrepreneur he comes to his specialty naturally and has become a leading advocate for doctors and dentists throughout the United States lecturing routinely at academic institutions, hospitals, and professional gatherings. Mr. Byrd has been named to Texas Rising Stars and Texas Super Lawyers for multiple years (2009-2019), Top Rated Lawyer by the Dallas Morning News (2016) and recognized as a Best Lawyer in Dallas in health care by D Magazine (2013, 2016-2019).

You may contact Mr. Byrd with your questions or comments at 214-291-3202, or by email at MByrd@ByrdAdatto.com.

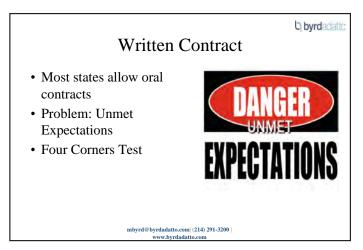




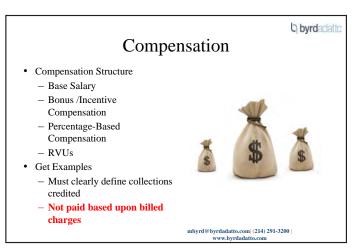
Campbell Centre II 8150 N. Central Expwy, Ste 930 Dallas, Texas 75206 D: 214.291.3202 O: 214.291.3200

### The Big Five: What You Must Know About Professional Employment Agreements









Models

Flex Model

Model

Kaiser Model

- Income Guarantee

- Percentage Model

- Base Employment

- Partnership Models

### byrdadattc Compensation - Benefits 1. Continuing Education Reimbursement 2. Licensing Fees, Societal Dues, Subscriptions 3. Benefits – Health Care, 401k, etc. 4. Malpractice Insurance Health Paid Holiday Insurance Wellness **Program** mbyrd@byrdadatto.com| (214) 291-3200 www.byrdadatto.com



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### Kaiser Model

- · Risk to Practice: High
- Risk to Employed Physician: Low
- Annualized base salary (typically closer to hospital contracts)
- Possible fixed or discretionary bonus (typically low)



### Compensation Models

- **Hospital and Academic** Models
  - Kaiser Model
- Flex Model
  - Income Guarantee
- **Private Practice Models** 
  - Percentage Model
  - Base Employment Model
  - Partnership Models

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### **Basic Terms**

- · Hospital Obligation
  - Guarantee and Payment of Income
  - Moving Expenses
  - Signing Bonus
  - Student Loans
  - Benefits
  - Forgiveness

- · Physician Obligation
  - Medical Service
  - Remain active and good standing with the hospital's medical staff
  - Stay in Service Area
  - Repayment of Guarantee
  - Repayment of Excess Receipts
  - Cap on Total Guarantee

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### Income Guarantee Model

- Pros
  - Funding To Start Practice
  - Forgivable Loan If Stay
  - Hospital Help (locate office space, vendors, etc.)
  - Patient Flow

- Cons
  - Limitations on Earnings
  - Limitations on Timing and Purpose of Draws
  - Onerous Reporting Requirements
  - Note Forgiveness is a Taxable Event

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Percentage Model

### **Compensation Models**

- · Hospital and Academic Models
  - Kaiser Model
- Flex Model
  - Income Guarantee
- **Private Practice Models** 
  - Percentage Model
  - Base Employment Model
  - Partnership Models

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Compensation based on percentage of collections

Risk to Practice: Low

· Risk to Employed Physician: High

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### 132

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### Compensation Models

- <u>Hospital and Academic</u> <u>Models</u>
  - Kaiser Model
- Flex Model
  - Income Guarantee
- Private Practice Models
  - Percentage Model
  - Base EmploymentModel
  - Partnership Models

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### Base Employment Model

- Risk: Shared though risk shifts depending on guarantee amount.
- · Annualized base salary
- Additional opportunity to earn incentive compensation based on productivity formula and thresholds



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### Compensation Models

- <u>Hospital and Academic</u> <u>Models</u>
  - Kaiser Model
- · Flex Model
  - Income Guarantee
- Private Practice Models
  - Percentage Model
  - Base Employment Model
  - Partnership Models

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### Compensation Model

Three Basic Partnership Compensation Models:

- 1. Eat What You Kill
- 2. Enterprise Model
- 3. Communist Model



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### **Ancillary Compensation**

- · Medical Spas
- ASC
- Medical Office Buildings
- · Anesthesia Services
- · Device Companies
- Lab
- Imaging Centers
- · Physical Therapy
- Neuromonitoring
- Stem Cell Therapy
- Pain Management Centers

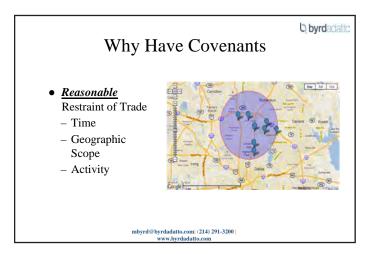
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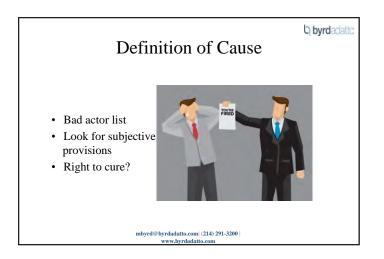




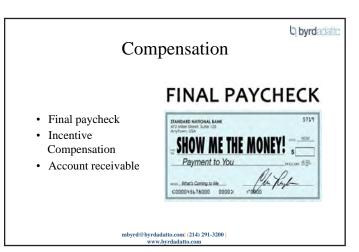


















### **SELF EVALUATION**

### The Big Five: What You Must Know About Professional Employment Agreements

### True or False

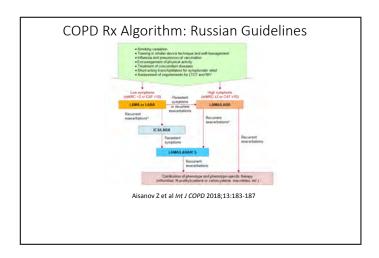
1	The first step to evaluate your employment opportunity is to determine your plan A and plan B.
2	The biggest problem with handshake agreements is the risk of unmet expectations.
3	Oral contracts are not enforceable in most states.
4	The key to understanding your compensation provisions is to understand how productivity will be measured.
5	Physician non-competes are unenforceable.
6	Understanding how you are expected to be busy with patients is an important example of an issue outside the employment agreement that should be discussed prior to employment.
7	Absent language saying otherwise, upon termination of an employment agreement, the account receivable for the leaving physician will likely remain as property of the practice.

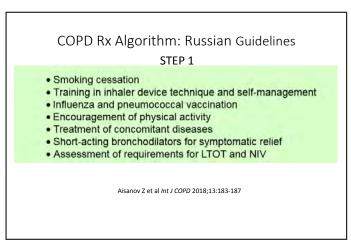
**Answer Key:** 1. T, 2. T, 3. F, 4. T, 5. F, 6. T, 7. T

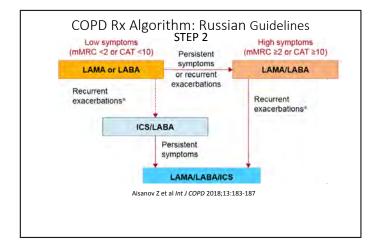
### LOUIS KURITZKY, MD

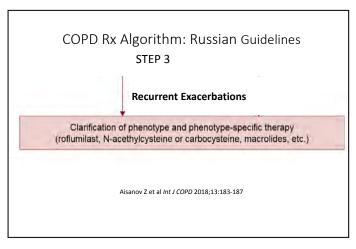
4510 NW 17th Place GAINESVILLE, FL 32605 (352) 377-3193 LKuritzky@aol.com

### **COPD: Diagnosis, Therapies and Management**







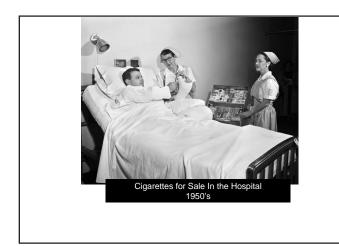


COPD: Why Bother?

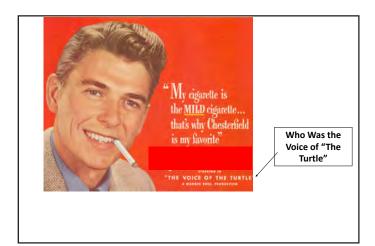
"COPD is currently the 4<sup>th</sup> leading cause of death in the world but is projected to be the 3<sup>rd</sup> leading cause of death by 2020."

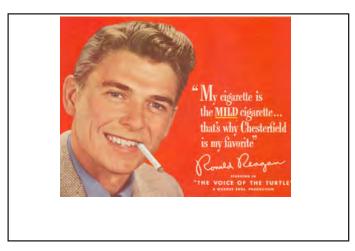
GOLD COPD 2020 Guidelines Pocket Guide

COPD
How Did We Get Into This Mess?









### COPD: Why NOT Bother?

With the exception of smoking cessation and oxygen in latestage COPD, no pharmacologic interventions have been shown to be disease modifying or reduce overall mortality.

# COPD: GOLD Guidelines Glid Intelligible District Unity District GLOCALLE STRATEGY FOR the GOLDANGER MANAGEMENT AND PROPERTY OF THE GOLDANGER MANAGEMENT AND PR

### GOLD: Diagnosis and Assessment: Key Points

- Consider clinical Dx: dyspnea, chronic cough or sputum production, and risk factors
- Spirometry is required to make the Dx
  - Post-bronchodilator FEV<sub>1</sub>/FVC < 0.70 confirms persistent airflow limitation (COPD)
  - To avoid over-Dx in elderly, check age-related norms

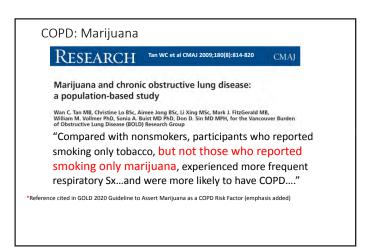
www.goldcopd.com

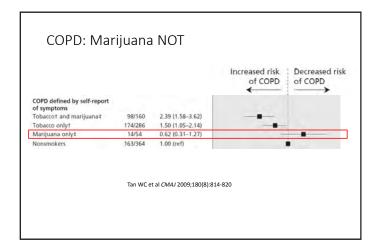
## COPD: Other Risk Factors

"Other types of tobacco, (e.g., pipe, cigar, water pipe) and marijuana are also risk factors for COPD, as well as environmental tobacco smoke."

GOLD COPD 2020 Guidelines Pocket Guide

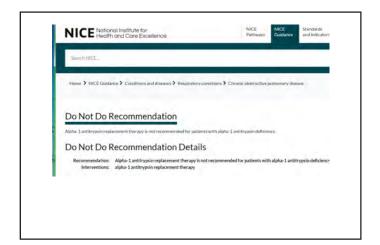
# COPD: Marijuana RESEARCH Marijuana and chronic obstructive lung disease: a population-based study Wan C. Tan MB, Christine Lo BSc, Aimee Jong BSc, Li Xing MSc, Mark J. FitzGerald MB, William M. Vollmer PhD, Sonia A. Buist MD PhD, Don D. Sin MD MPH, for the Vancouver Burden of Obstructive Lung Disease (BOLD) Research Group Tan WC et al CMAJ 2009;180(8):814-820





Alpha-1-antitrypsin Deficiency: Maybe

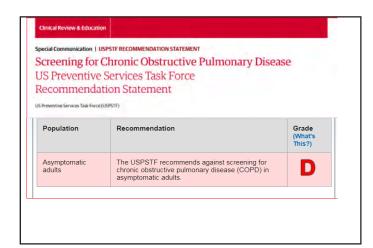
"The WHO recommends that all patients with a Dx of COPD should be screened...."

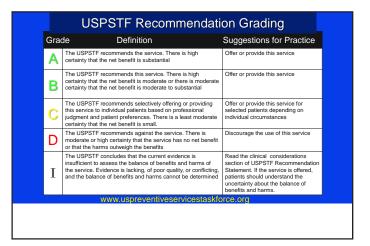


(UK National Institute for Health and Care Excellence)

"With the exception of smoking cessation and the avoidance of other environmental risk factors, current Rxs for emphysema caused by AATD aim to alleviate Sx and do not slow down the progression of the disease....NICE clinical guideline 101 does not recommend replacement therapy for people with AATD and COPD."

NICE Final Scope Report on Human Alpha-1-proteinase Inhibitor for Maintenance Rx of Emphysema March 2018





### USPSTF: COPD Screening NOT

"Similar to 2008, the USPSTF did not find evidence that screening for COPD in a Sx persons improves health-related QOL, morbidity, or mortality. The USPSTF determined that early detection of COPD before the development of Sx, does not alter the course of the disease or improve patient outcomes. The USPSTF concludes with moderate certainty that screening for COPD in aSx persons has no net benefit."

Siu AS JAMA 2016;315(13):1372-1377

# COPD: GOLD Guidelines

- Definition and Overview • Dx and Assessment
- Therapeutic Options
- Manage Stable COPD
- Manage Exacerbations
- Manage Comorbidities
- Asthma COPD Overlap **Syndrome**

Global Strategy for Diagnosis, Management and Prevention of COPD Diagnosis and Assessment: Key Points

- · Goals of COPD assessment: determine
  - severity of the disease
  - severity of airflow limitation
  - impact on the patient's health status
  - · risk of future events

www.goldcopd.com

### GOLD: Chest X-ray? NOT

"A chest X-ray is not useful to establish a Dx in COPD, but it is valuable in excluding alternative Dxs and establishing the presence of significant comorbidities...."

\*emphasis added

GOLD COPD 2020 Guidelines Pocket Guide

### GOLD: COPD-Asthma Overlap? Rx Like Asthma

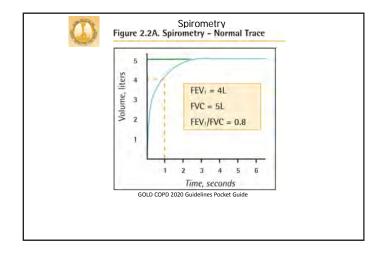
"A major differential Dx is asthma. In some patients with chronic asthma, a clear distinction from COPD is not possible using current imaging and physiological testing techniques. In these patients, current management is similar to that of asthma."

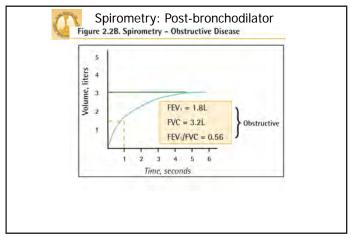
\*emphasis added

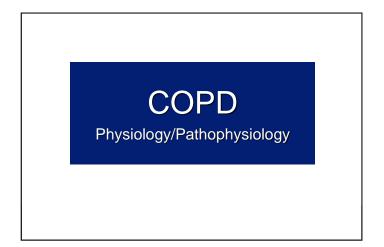
GOLD COPD 2020 Guidelines Pocket Guide

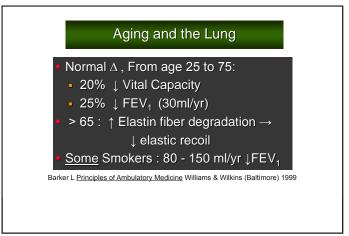
Differentiati	ng Asthma fron	n COPD
	Asthma	COPD
Age of Onset	Usually < 30	Usually > 40
History of Atopy	Often	Uncommon
Family Hx	Usually+	Usually -
Intercritical Lung Fx	WNL/Nearly WNL	Impaired
Lung Fx Under Rx	WNL/Nearly WNL	Impaired
Bronchodilator Response	Strong (>15% FEV1↑)	Modest (<12% FEV1)
ICS Response	Strong	Modest
LKTR Response	Strong	None
Smoking Hx	Variable	Prominent

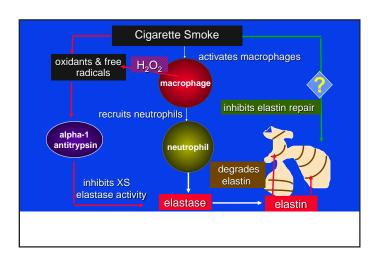
dapted from Kuritzky L "COPD Testing as a Vital Sign" Primary Care Special Edition 1999(3):2

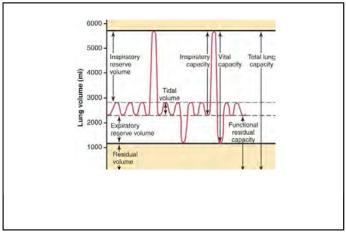


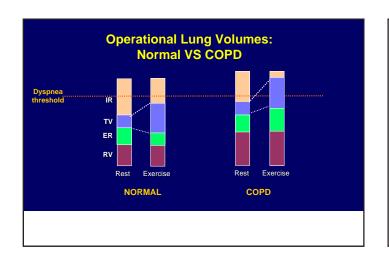


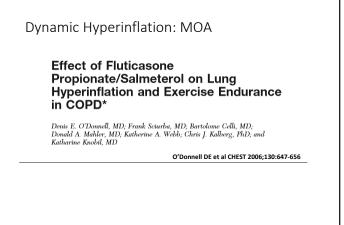


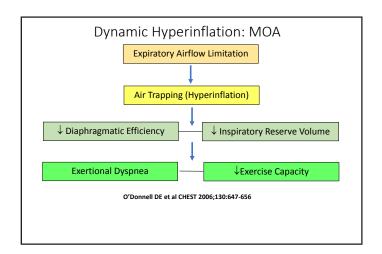


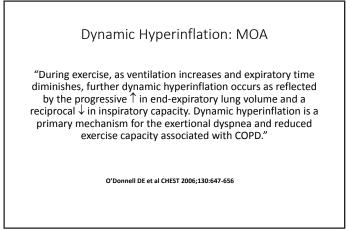


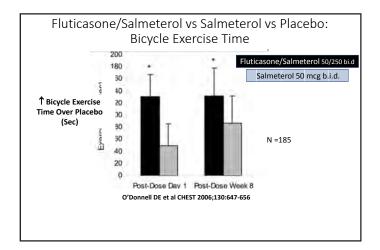


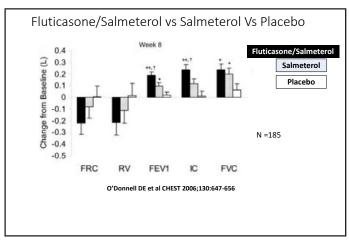


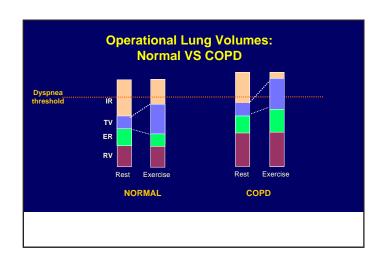




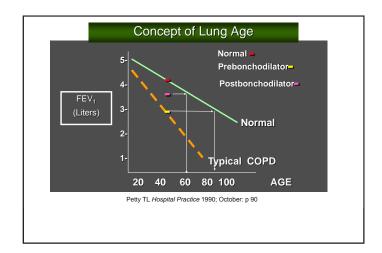




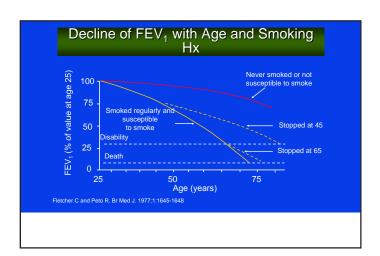


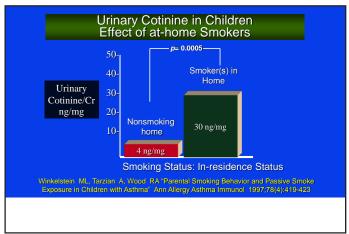


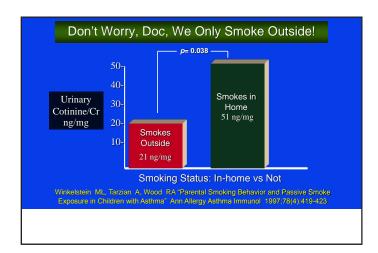
Dillerentiat	ing Asthma from	
	Asthma	COPD
Hypoxemia	Extremis Only	Common
Polycythemia	Rare	Common
Carboxyhemoglobin	WNL	Elevated
Progressive Decline	Uncommon	Typical
Cough Prominence	Nocturnal, Exercise	Early AM
Purulent sputum	Uncommon	Typical
Bronchodilator Response	B agonist > Anticholinergic	Anticholinergic = B agonist
IgE Elevation	Common	Uncommon
Exacerbation: Antibiotics	Ineffective	Usually Effective
	Kuritzky L "COPD Testing as a Vitr ry Care Special Edition 1999(3):2	al Sign"

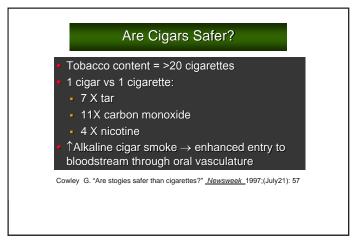


What about the guy who says "Well, Doc after all these years of smoking, there's no sense in stopping now, is there....?









### Smoking Cessation & Stroke Prevention: Does it help?

- Smokers vs non-smokers RR = 1.5
- Former smokers vs nonsmokers RR = 1.2
- Most recent studies (1993): Former smokers begin to approach risk of nonsmokers at 2-5 years cessation

Bronner, Leslie "Primary Prevention of Stroke" NEJM 1995;333:21

### Reducing Smoking: How Much Benefit?

You are speaking to a new patient about smoking cessation. Taken aback, he says "But doc, I've cut down by more than 50% in the last two years and kept it up....isn't that good enough?" Your evidence based response should be

- a) Yes, risk of CVD is correspondingly ±50% lower
- b) Yes, but CVD risk reduction is only ± 25%
- c) No, cutting down has been shown NOT to help

### RESEARCH PAPER

Health consequences of reduced daily cigarette consumption

Aage Tverdal, Kjell Bjartveit

Tobacco Control 2006;15:472-480. doi: 10.1136/tc.2006.016246

### Cutting Down Smoking: Benefits?

- Study: Prospective study (Norway) heavy smokers (n=51,210) who cut down by >50%
- Inclusion
  - Age at enrollment 20-49 years
  - → Smoked >15 cigs/d at baseline
  - ◆ ♀ (n=24,959)
  - → ♂ (n=26,251)
- Exclusion: Known CHD; pipe smokers
- Followup 1974-1978 thru 2003 (mean 21.2 yrs)

Tverdal A, Bjartveit K Tobacco Control 2006;15:472-480

### Cutting Down Smoking: Benefits?

Mortality	Reducers vs Sustained Heavy Smokers RR	р
All-cause	1.02 (0.84-1.22)	NS
CVD	1.02 (0.75-1.39)	NS
IHD	0.96 (0.65-1.41)	NS
Lung Ca	0.66 (0.36-1.21)	NS
Smoking-related CA	0.86 (0.57-1.29)	NS

Tverdal A, Bjartveit K Tobacco Control 2006;15:472-480

### Cutting Down Smoking: Benefits? Conclusions

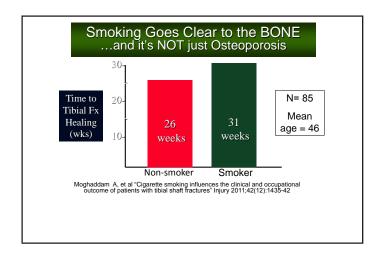
"Long-term follow-up provides no evidence that heavy smokers who cut down their daily cigarette consumption by >50% reduce their risk of premature death significantly."

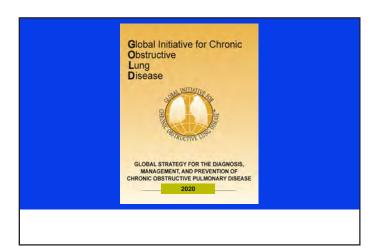
Tverdal A, Bjartveit K Tobacco Control 2006;15:472-480

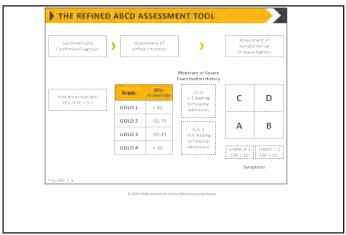
### Cutting Down Smoking: Benefits? Conclusions

"...it may give people false expectations to advise that reduction in consumption is associated with reduction in harm."

Tverdal A, Bjartveit K Tobacco Control 2006;15:472-480







### COPD: Severity of Airflow Limitation

### Post-Bronchodilator FEV1

GOLD 1: Mild FEV<sub>1</sub>  $\geq$  80% predicted

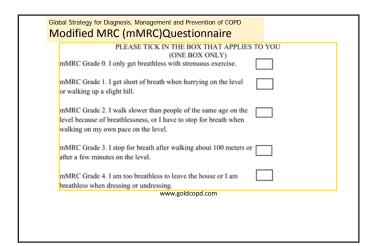
GOLD 2: Moderate  $50\% \le FEV_1 < 80\%$  predicted

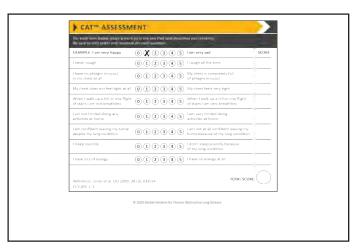
GOLD 3: Severe  $30\% \le FEV_1 < 50\%$  predicted

GOLD 4: Very Severe  $FEV_1 < 30\%$  predicted

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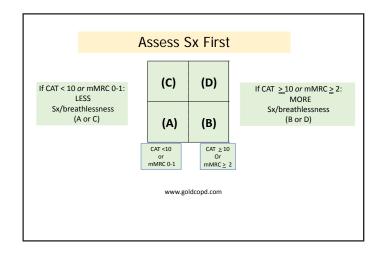
## COPD Assessment of COPD Sx COPD Assessment Test (CAT) or Clinical COPD Questionnaire (CCQ) or mMRC Breathlessness scale

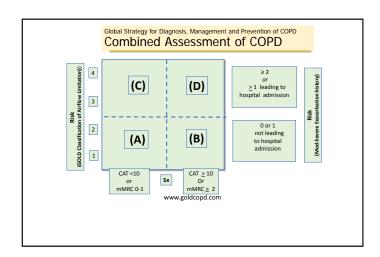


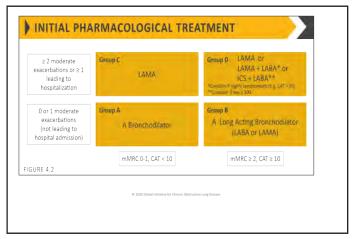


• CAT Distilled: 8 Questions Scored 0-5

• Cough: never—often
• Mucus: none—my chest is full of mucus
• Chest tightness: none—very tight
• Breathless with 1 flight of stairs: none--very
• ADL at home: no limitations—very limited
• Confidence when leaving home: confident—not at all confident
• Sleep: soundly—not at all soundly because of COPD
• Energy: lots—none at all







### COPD Pharmacologic Rx: 10 General Principles

- All patients: SABA for rescue
- Initial Rx:
  - LAMA > LABA (fewer exacerbations)
  - LAMA/LABA > LABA
  - LAMA/LABA > LAMA (±)
- ICS/LABA:
  - When LABD insufficient + exacerbations
  - When ↑ eosinophils (>300 /µl) or comorbid asthma

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### COPD Pharmacologic Rx: 10 General Principles

- ≥GOLD 3 + exacerbations: add PDE4-i (roflumilast) to LABD regimen
- Consider macrolides (eg, azithromycin): continued exacerbations despite GDMT
- Long-term ICS monotherapy: NOT recommended
- Theophylline: Last resort

GOLD COPD 2020 Guidelines Pocket Guide

### The ATBC ( $\alpha$ -tocopherol $\beta$ -carotene ) Study

- STUDY: Lung Cancer Prevention Trial (1985-1993)
- SUBJECTS: male smokers (n = 29,133)
- $\underline{\text{Rx}}$ : Vitamin E 50 mg/d vs  $\beta$ —Carotene 20mg/d vs Both vs placebo X mean 6.1 years
- RESULTS:
  - $\beta$ -carotene 20 mg/d  $\rightarrow$  18% Lung CA $\uparrow$  $\rightarrow$  8% Mortality  $\uparrow$

Alpha-Tocopherol, Beta-Carotene Cancer Prevention Study Group "The Effect of vitamin E and beta-carotene on the incidence of lung cancer and other cancers in male smokers." N Engl J Med 1994;330:1029-1035

### "β-Carotene and Vit A Halted in Lung CA Prevention Trial"

- <u>STUDY</u>: 18, 314 male & female high-risk subjects: current or former smokers, 4,060 asbestos exposed
- Rx : 30 mg b-carotene + 25,000 IU Vit A daily
- <u>OUTCOME</u>: 4 Yrs Rx
  - 28%个 lung CA
  - 17%  $\uparrow$  deaths  $\rightarrow$  study terminated 21months early

Primary Care & Cancer p21 January 1996

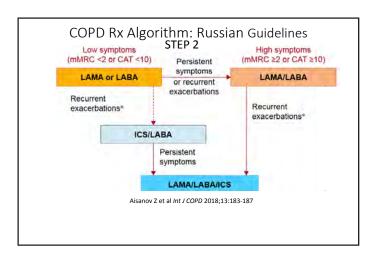
### Vitamin Supplementation?

"Smokers should avoid beta carotene supplementation."

The ATBC Study Group "Incidence of Cancer and Mortality Following alpha-Tocopherol and beta-Carotene Supplementation" JAMA 2004;290(4):476-485

# COPD Rx Algorithm: Russian Guidelines | Sincharge session | Superior should denote the belonger and discovered and discovered

### COPD Rx Algorithm: Russian Guidelines STEP 1 Smoking cessation Training in inhaler device technique and self-management Influenza and pneumococcal vaccination Encouragement of physical activity Treatment of concomitant diseases Short-acting bronchodilators for symptomatic relief Assessment of requirements for LTOT and NIV



## COPD Rx Algorithm: Russian Guidelines STEP 3 Recurrent Exacerbations Clarification of phenotype and phenotype-specific therapy (roflumilast, N-acethylcysteine or carbocysteine, macrolides, etc.) Alsanov Z et al Int J COPD 2018;13:183-187

### **KEY PRACTICE POINTS**

- The USA status for adult smoking is the best it's been in >50 years
- Rx reduces exacerbations and improves function
- Talk to parents of children with URI/OME/AOM about smoking
- You only have to give up 1 cigarette: the next one
- Don't test your abstinence
- No pharmacologic Rx has been shown to be disease modifying or reduce mortality. Hence, your choice about Guideline Directed Treatments certainly has room for individualization

### **SELF EVALUATION**

### **COPD: Diagnosis, Therapies and Management**

- **1.** The diagnosis of COPD is best confirmed by
  - a. A chest xray
  - b. Carbon dioxide diffusion
  - c. A post-bronchodilator FEV1/FVC ratio <0.70
  - d. Resting SaO2 of <93%
- 2. During exercise, one of the phenomenon that magnifies dyspenea in COPD patients is
  - a. Dynamic hyperinflation, thereby reducing available inspiratory reserve
  - b. Small airway bronchospasm
  - c. Decreased residual volume
- **3.** In regards to the pharmacotherapy of COPD:
  - a. Anticholinergics reduce total mortality
  - b. Beta agonists reduce total mortality
  - c. PDE4 inhibitors reduce total mortality
  - d. No pharmacologic treatment (except O2 in late stage COPD) has been shown to reduce mortality
- **4.** Your patient has reduced smoking by 50%. What type of long-term benefits might he anticipate?
  - a. 30% reduction in MI
  - b. 25% reduction in stroke
  - c. 15% reduction in overall mortality
  - d. The largest long-term followup of such patients found no statistically significant endpoint reduction
- **5.** What are the benefits in smokers as far as antioxidant supplements (e.g., beta-carotene, vitamin E) go?
  - a. Antioxidant vitamins reduce stroke
  - b. Only cold-processed vitamin E is beneficial for smokers
  - c. Two randomized trials showed worse outcomes in smokers who supplemented beta carotene
  - d. For best effects, beta-carotene and vitamin E need to be combined

**Answer Key:** 1. C, 2. A, 3. D, 4. D, 5. C

### **FACULTY**

### Frederick M. Cummings, Esq.

Frederick M. Cummings, Esq., of Phoenix, Arizona, is a trial attorney with the law firm of Gust Rosenfeld with extensive experience in the areas of healthcare, medical malpractice, and medical products liability defense litigation. He has represented more than 1,000 physicians and dentists in malpractice suits before federal and state courts and in state disciplinary and licensing proceedings, and has also defended major Arizona hospitals, medical products manufacturers, distributors and retailers. Mr. Cummings is a frequent speaker and writer on topics related to medical and dental liability issues and has been featured on numerous local and national "Best Lawyers" lists including the current 28th edition of "Best Lawyers in America".

You may contact Mr. Cummings with your questions or comments at FCummings@GustLaw.com, or by phone at 602-615-0488.



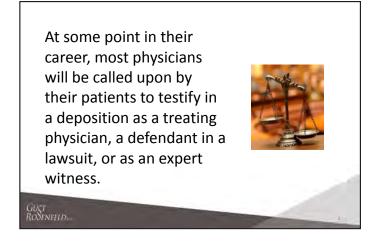


■ ONE E. WASHINGTON, SUITE 1600 ■ PHOENIX, ARIZONA 85004-2553 ■ TELEPHONE 602-257-7422 ■ FACSIMILE 602-254-4878 ■

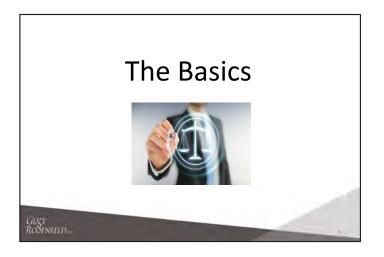
Frederick M. Cummings 602-257-7967 FCUMMINGS@GUSTLAW.COM

### The Physician as a Witness

### Legal Disclaimer (you should have expected this) This is a general description of common problems. It is <u>not</u> a substitute for legal advice. Consult your own qualified attorneys in your state for advice. These are just my opinions.



Automobile Accidents
Criminal Proceedings
Malpractice Lawsuits
Workers Compensation Claims
Divorce/Child Custody Battles
Administrative Hearings
Independent Medical Examinations

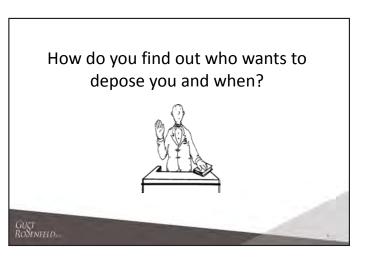


### What is a deposition?

- A deposition is testimony taken under oath by a party or witness taken before a court reporter.
- ➤ During a deposition, all parties and their attorneys have the right to attend and ask questions of the witness being deposed.
- A written transcript is produced by the court reporter of all of the questions and answers by the witness.

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### Who will be there? > The attorney requesting the deposition > Your attorney (if you have one) > Any party (optional) and the attorney representing it > Any interested party (insurance claims representatives, etc.)(optional) > Paralegals/Nurse Consultants (optional) > Court Reporter ➤ Videographer

### Where will it take place?

Virtually anywhere:

- > Attorney office
- ➤ Hotel conference room
- > Hospital conference room
- ➤ Airport
- > Court reporter office
- > Your office
- > Your home (Zoom or other virtual depositions)

### Why are depositions requested?

1. Party

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➤ You

- Discover what facts you know and what opinion you hold
- > Custom and practice
- Admissions against your interest
- Admissions against the interests of others
- Establish facts helpful to plaintiff's burden of proof or to undermine your defenses
- Undermine your credibility and experience

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### Why are depositions requested? (continued)

- 2. Treating physician
  - > Discover what facts you know
  - ➤ Elicit opinions regarding issues in the case
  - ➤ Life expectancy
  - Performance of injury
  - > Reasonableness and necessity of your treatment
  - Your customs and practices (if applicable)
  - > Pure fact depositions about treatment rarely are used outside of the proceeding its used for

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### Why are depositions requested? (continued) 3. Expert Witness Discover what facts you know and what opinion you hold

- - Custom and practice
  - Admissions against the interest of the physician or hospital for who you are hired
  - Admissions against the interests of others
  - Establish facts helpful to plaintiff's burden of proof or to undermine your defenses
  - Undermine your credibility and experience
  - Explore your history as an expert
  - Past expert testimony Fees and expenses

  - Hours spent and money charged, past and future
  - Number of depositions that month, year, career
  - Income derived from expert witness work
  - Expert witness services/advertisements

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### What can your deposition be used for?

- ➤ At trial
- ➤ At depositions of other witnesses
- ➤ At licensing hearings
- ➤ In other lawsuits
- ➤ Expert witness services

### "The Ground Rules"

- 1. Make sure you understand the question before you answer.
- 2. If you do not understand the question or are not sure what was asked, ask to have the question repeated or rephrased.
- 3. Wait until the question is finished before you give your answer.
- 4. Do not talk over any other person talking while on the record.
- 5. Answer verbally.
- 6. If the question asks for a "yes" or "no", do not respond to the question with "uh huh" or "mmm mmm".

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### My Rules

- 1. Tell the truth.
- 2. Answer the question asked and only the question asked completely.
- 3. If you don't know, say so.
- 4. If you don't remember, say so.
- 5. Take the day off.



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### 7 Deadly Sins

- 1. Do not guess or speculate
- 2. Do not argue with the attorney or become hostile
- 3. Do not volunteer information beyond what the questions calls for
- 4. Do not ask for a break when a question is pending
- 5. Do not give an opinion outside your expertise
- Do not talk with others outside of your counsel about your deposition testimony or care of the patient
- Do not discuss your conversations/communications with your counsel.

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### Why is everyone objecting so much?

- ➤ Why attorneys object to questions
- ➤ Why it matters
- ➤ What you should do

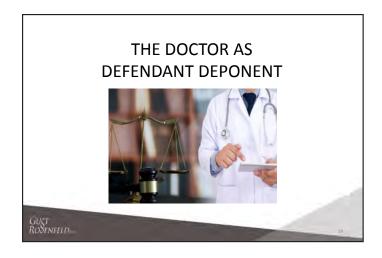
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### The Doctor as Treating Physician

### Treating physicians who are asked for depositions should have certain rights.

- 1. The right to request the deposition be scheduled at a time and place convenient to the physician.
- 2. The right to ask for compensation for your time away from your practice.
- 3. The right to refuse to talk to any lawyer without a proper medical authorization from the patient.
- 4. The right to refuse a pre-deposition meeting.
- 5. The right to refuse to give expert or opinion testimony outside of the facts and scope of your care.

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### Why it's important

- ➤ Most important deposition in case
- Likeability and bedside manner
- ➤ Knowledge of subject matter
- > Experience counts

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### Preparation

Meeting with your counsel well in advance of deposition

- Review issues in case thoroughly
- > Get background on attorney(s) asking you questions
- Determine problem areas and how to meet them
- Learn what to emphasize, what to downplay, what to avoid
- Practice cross-examination

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### DO

- ➤ Be courteous
- ➤ Be direct
- > Know your audience
- > Testify like you would before peers
- ➤ Experts
- ➤ Other parties' lawyers
- ➤ Review your deposition transcript

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### DON'T

- > Be rude or condescending
- ➤ Argumentative
- ➤ Impatient
- ➤ Object to questions
- > Answer questions with a question
- > Read literature to prepare for your deposition
- > Criticize your patient
- Exaggerate your expertise or boast about your care

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### How are depositions used at trial?

- 1. To refresh your recollection
- 2. To impeach trial testimony inconsistent with deposition testimony
- 3. To question your expert
- 4. To guestion the other side's expert
- To impeach or corroborate other witnesses' testimony
- 6. To prove elements of case without your explanation

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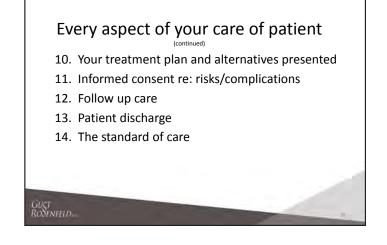








## Every aspect of your care of patient 1. Dates 2. Times 3. Conversations not in record 4. Information available to you 5. Information provided to others 6. Your custom and practice 7. Your diagnosis 8. Your differential diagnose 9. Consultations ordered and why



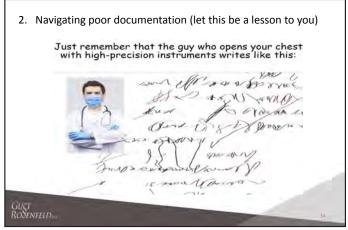
### Special Considerations for Defendants Deposed in Malpractice Suits

- 1. Realistic expectations
  - a) Your goals
  - b) Your attorney's goals
- 2. You will not "win" your case in your deposition
- 3. Do not unnecessarily educate your opponent
- 4. Listen to your attorney
- 5. Do not be evasive
- 6. Do not play lawyer

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Most states require the expert to be a specialist in the same field as the health care provider.

GUST ROSENFELDS The conduct of the physician is to be judged based on the medical information current at the time.

Subsequent surgical or therapeutic breakthroughs are not be considered.

Subsequent surgical or therapeutic breakthroughs are not be considered.

Many states require the expert to have a combination of academic and/or practical experience or through board certification.

Some states have special rules designated to prevent "career" experts who spend most of their time testifying by requiring the majority of the expert's time be devoted to practicing medicine.

GUST ROSENFELDS Expert Witness Services

American Medical

Forensic Specialists

Technical Advisory Service

for Attorneys (TASA)

JurisPro

Seak, Inc.

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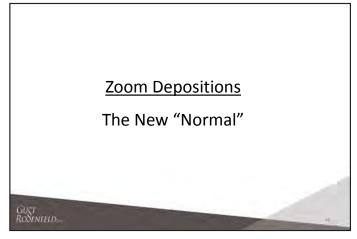
### **Expert Witness Testimony** Compensated hourly Fair market rate Separate charges for record review, depositions and trial appearances

### Your deposition as an expert:

- Discover what facts you base your opinions on
- Your own custom and practice
- $\label{eq:definition} \mbox{ Admissions against the interest of the physician or hospital for who you are hired}$
- Admissions against the interests of others
- Establish facts helpful to plaintiff's burden of proof or to undermine your defenses asserted or opinions held
- Undermine your credibility and experience
- Explore your history as an expert
- Review your past expert testimony
- Fees and expenses ask how you calculated
- Hours spent and money charged, past and future
- Number of depositions that month, year, career
- Income derived from expert witness work
- Expert witness services/advertisements
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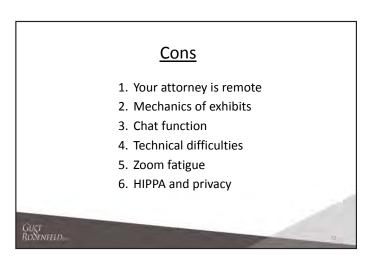


### Appearance to Audience ➤ Camera height > Eye height ➤ Angle ➤ Distance (no talking heads, body language) ➤ Look at camera <u>not</u> your picture ➤ Sit still ➤ Background ➤ Lighting ➤ Dress (no stripes, checks) GUST ROSENFELD

## Zoom Depositions Appearance to Audience (continued) Your Microphone Outside noise Slow down Same rules as depositions Technology Internet connection speed, computer or tablet RAM Background Photo Avitars and Filters

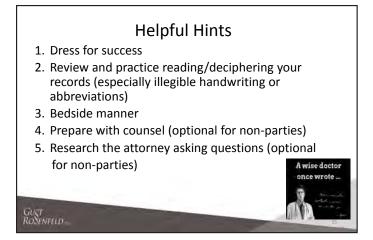


## PROS 1. Location 2. Cost savings 3. Health considerations 4. Scheduling











### SELF EVALUATION

### The Physician as a Witness

- 1. T/F When you are subpoenaed to testify about one of your patients, you are placed under oath and asked questions by the patient at his or her house?
- 2. T/F If you are a defendant in a lawsuit, the patient's lawyer will want to discover what you recall of the patient?
- 3. Which of the following is false?

  If you are an expert witness in a lawsuit or administrative proceeding at your deposition, you can expect to be asked about:
  - a. Your income derived from expert witness work.
  - b. Your history as an expert witness.
  - c. Your favorite movies.
  - d. Your education, training and experience to learn whether you are an expert in the subject you are testifying about.
- **4.** T/F If you are a defendant in a malpractice lawsuit, the best practice is to argue with the patient's attorney when he asks questions you do not like?
- **5.** Which of the following is recommended you do at your deposition?
  - a. Argue with counsel if asked a ridiculous question.
  - b. Object to a question you don't like.
  - c. Project a calm demeanor and professional appearance.
  - d. Give your best guess if you don't know an answer.

Answer Key: 1. F, 2. T, 3. C, 4. F, 5. C

### **FACULTY**

### Herman P. Houin, MD, FACS

Herman P. Houin, MD, FACS, of Detroit, Michigan, is board-certified in plastic surgery with a Certificate of Added Qualifications in surgery of hand. Dr. Houin practices as a plastic surgeon at Henry Ford Hospital in Detroit and serves on that institution's OR Operations Committee. He is associate clinical professor at Wayne State University's Department of Surgery and sits on Purdue University's Biological Sciences Academic Alumni Council. He has received numerous awards and recognitions, has published numerous articles and is a frequent speaker on his specialty.

You may contact Dr. Houin with your questions and comments at 313-982-8355, or by email at HHouin@Yahoo.com.



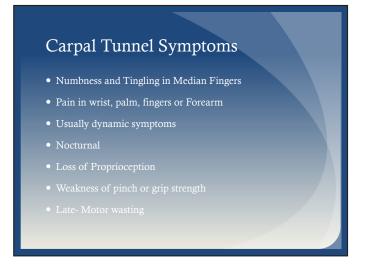


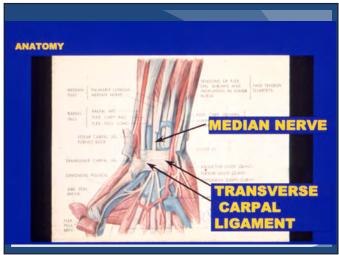
Plastic & Reconstructive Surgery Herman Houin, M.D. 19401 Hubbard Dr. Ste. 205 Dearborn, MI. 48126 313-982-8355

### Understanding and Treating Carpal Tunnel Syndrome Herman P. Houin, MD, FACS

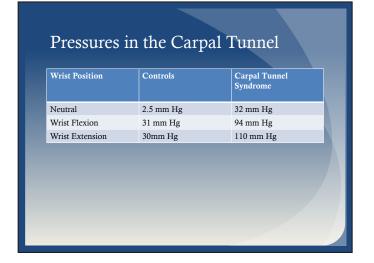
# Understanding and Treating Carpal Tunnel Syndrome • Compression of Median nerve within Carpal Tunnel

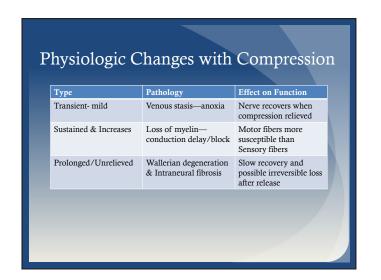


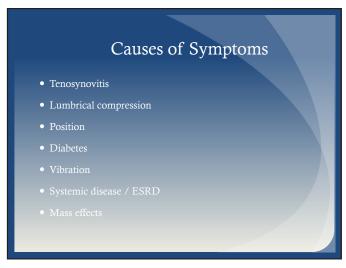












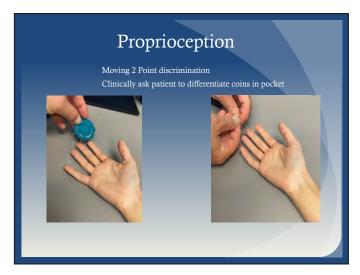


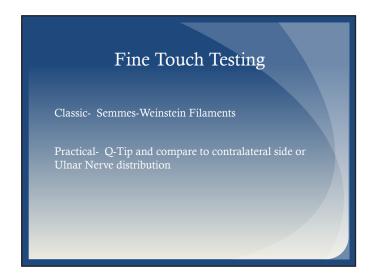






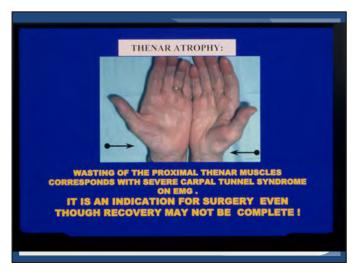


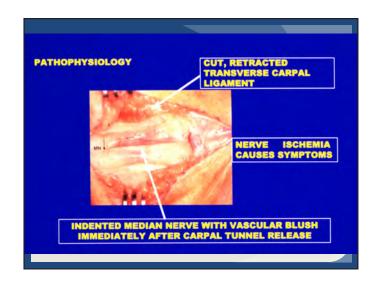


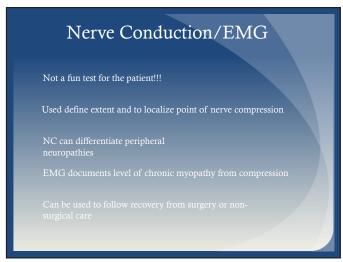












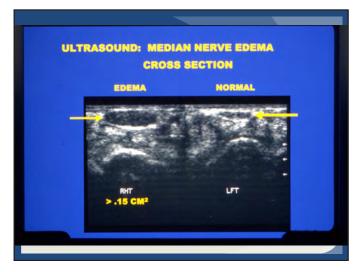
## Interpreting NCV/EMG Normal....All values normal Minimal...Sensory difference <0.5 Mild......Median nerve sensory >3.5 msec Moderate...Median nerve motor >4.5 msec Severe.....Median nerve motor >5.5 decreased amplitude and sensory potentials Very Severe... median motor >6 No response (NR) on amplitude EMG-MUP activity depicts chronicity

Diagnostic Ultrasound

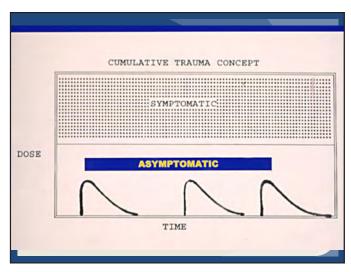
Normal Median Nerve <0.15cm2

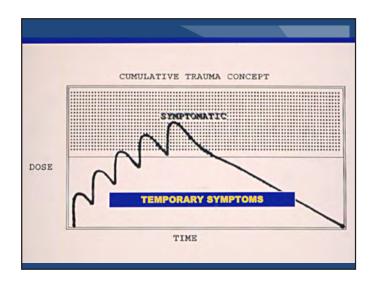
Carpal tunnel compression leads to nerve edema just proximal to wrist crease

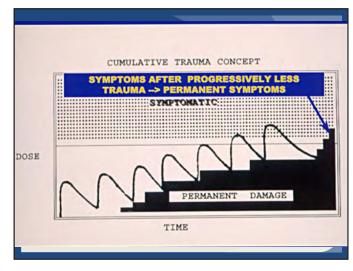






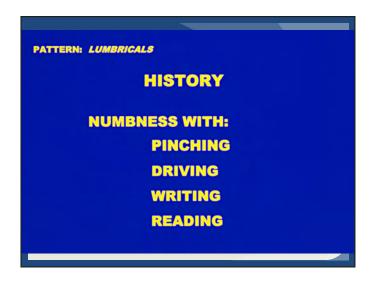


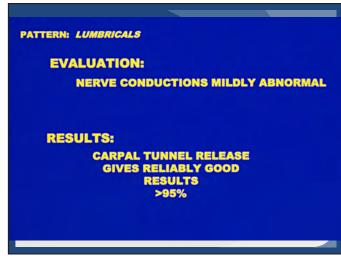










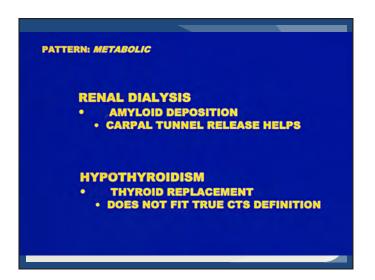












# CTS Metabolic Pattern Renal Dialysis- Amyloid Depositon CTR helps Gout- medical management - CTR and debulking if uncontrollable Hypothyroidism- Thyroid replacement - CTR if residual symptoms

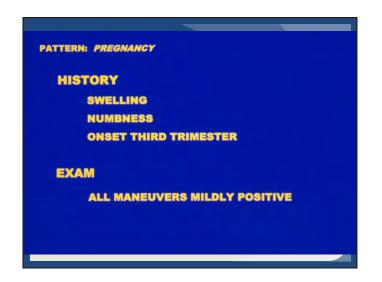
SUSPECTED MASSES ARE
EVALUATED BY ULTRASOUND.

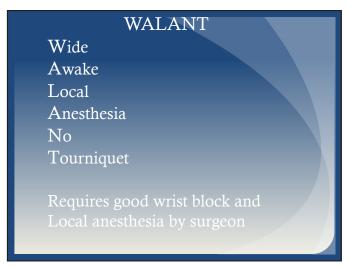
WRIST GANGLIONS CAN HAVE
EXTENSIONS INTO THE CARPAL
TUNNEL.

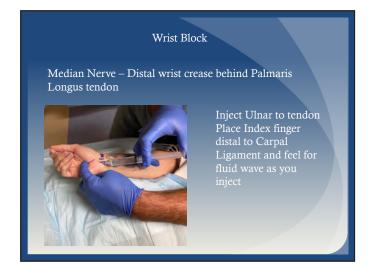










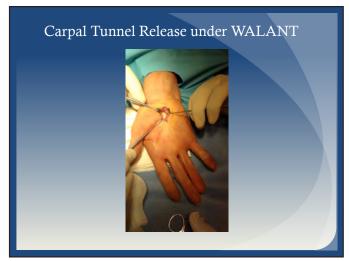












### **SELF EVALUATION**

### **Understanding and Treating Carpal Tunnel Syndrome**

### True/False

- 1.\_\_\_\_ Median nerve supplies sensation to thumb, Index, Middle and 1/2 ring finger
- 2. Lumbrical muscles can contract into the carpal tunnel in many patients
- 3.\_\_\_ WALANT allows dynamic inspection of carpal tunnel during surgery
- 4.\_\_\_ Night splints and anti-inflammatory's best initial treatment
- 5. Wrist blocks are simple for any physician to perform
- 6.\_\_\_ Nine tendons and the median nerve pass within the carpal tunnel

**Answer Key:** 1. T, 2. T, 3. T, 4. T, 5. T, 6. T



### David J. Norris, MD, MBA, CPE

316-200-2785 david@davidnorrismdmba.com

### **Practice Process Evaluation and Improvement**

### By the End

Understand how to evaluate any process

Be able to determine the points of inefficiency and ineffectiveness

Understand the necessary steps to improving any process

Be well equipped to tackle any process problem

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### My Mission and Purpose

To help healthcare professionals obtain the practice they desire by improving their business intelligence.

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### **Process Improvement**

You cannot control what you do not understand Similar to med school Start with basics - anatomy, physiology Add in the pathology later

Learn how to detect problems and treat them

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"An undefined problem has an infinite number of solutions."

- Robert A. Humphrey

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"If I had an hour to solve a problem, I'd spend 55 minutes thinking about the problem and 5 minutes thinking about solutions."

- Albert Einstein

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### Processes Can Cost or Make You Money

Processes are critical in service industry
Inefficient processes can cost time and money
Poor processes can lead to low quality outcomes
Proper processes are efficient and improve quality

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### Characteristics of Service



### Aspects of Service

Intangibility

Simultaneous production and consumption

Proximity to consumer

Cannot be inventoried

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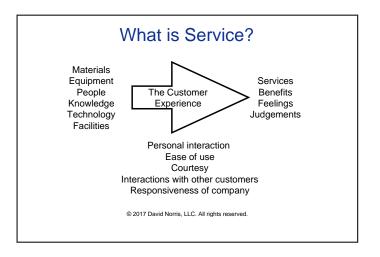
### What is Service?

Materials
Equipment
People
Knowledge
Technology
Facilities

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## What is Service? Materials Equipment People Knowledge Technology Facilities © 2017 David Norris, LLC. All rights reserved.

# What is Service? Materials Equipment People Knowledge Technology Facilities Services Benefits Feelings Judgements Services Benefits Feelings Judgements



### Why Manage Your Service?

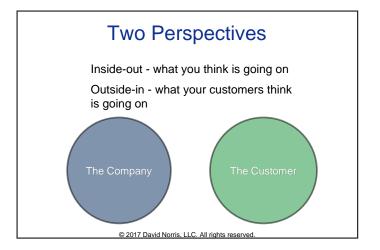
Better for the company

Better for you

Better for your staff

Better for your customer

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## Two Perspectives Inside-out - what you think is going on Outside-in - what your customers think is going on The Compary The Customer

## Two Perspectives The company perspective Inputs Processes Outputs The customer perspective The experience The "products" The Benefits

### **Two Perspectives** Input **Process** Output ER, MDs, RNs, OR, Dx, Tx, Hip fixed Company Wards, PT, Therapy Equipment Experience Service Benefit Empathetic, timely Ambulate again, return **Patient** Hip fixed home © 2017 David Norris, LLC. All rights reserve

## You've got to know every bit of your process Diagram it Actually go through it as a provider and as a patient

### What's Your Process



### The Service Concept



### The Service Concept

Know what it is you're doing

Understand the nature of what you're doing so customer and staff understand

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### Components

Mission and purpose

What and why

How - the service provided

What - customer experience & outcomes

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### Example

### Mission and purpose

To help physicians have the practice they desire by raising their business intelligence through business education

### How

Online education, books, seminars, consulting

### What

### Experience

Easy to use and understand concepts in courses and books

### Outcome

Physician who has business intelligence and creates the practice they desire

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### Connecting with Your Customers



### Who is Your Customer?

Customers can be many things
Patient
Hospital
Other physicians
Health plans
Employers

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### Service is a Two-Way Street

Your service is a two-way street

Information flows between you and your customer

Information leads to changes in the service provided

Information leads to changes in the customers expectations

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### Managing Your Customer's Expectations



### **Customer Satisfaction**

Satisfaction is their overall assessment of their perceptions of the service

Process, their experiences, their outcomes

Expectations Service Perceptions

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### **Customer Satisfaction**

Expectations Service Perceptions

Poor service design Don't understand their expectations Inadequate resources Wrong service provided

Satisfaction is their overall assessment of their perceptions of the service

Process, their experiences, their outcomes

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### Influencers of Expectations

Price of your service
Alternatives in marketplace
Marketing of your service
Your reputation (word of mouth)
Their previous experiences
Their attitude/mood
Your confidence

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### The Zone of Tolerance

Patients have a zone of tolerance based upon their expectations

As you design a process, consider your patients expectations to develop a zone of tolerance

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### **Overall Satisfaction Factors**

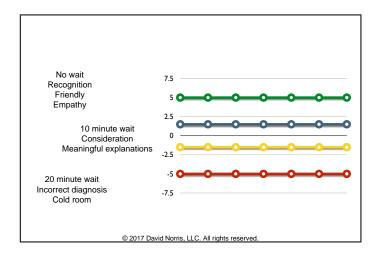
There are points in the process where the customer's satisfaction can be altered

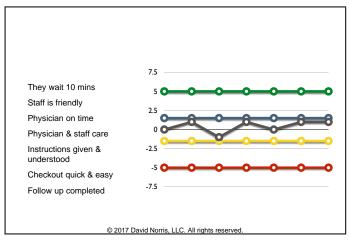
Research shows satisfaction is heavily influenced by

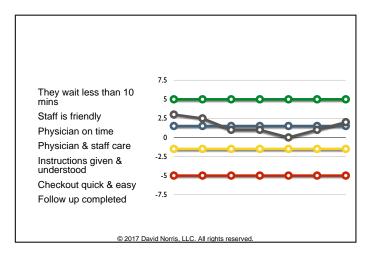
- the peaks (best and worst)
- how they felt at the end

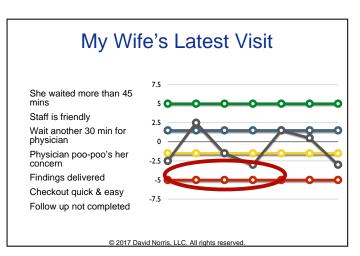
Design the experience with the end in mind

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### Factors That Affect Your Quality



### Service Quality Factors

Access Communication

Aesthetics Staff commitment

Helpfulness Competency

Availability Flexibility

Concern and empathy

Cleanliness

Comfort

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Responsiveness

### Herzberg-ish Model

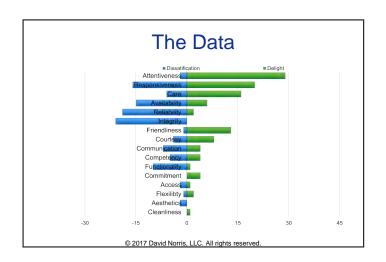
Dissatisfaction is not the opposite of satisfaction or delight

There are two types of factors

**Hygiene factors** - these need to be in place to satisfy; if absent they will dissatisfy

**Enhancing factors** - these can delight if present; if absent likely do not lead to dissatisfaction

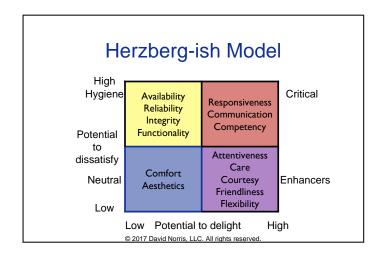
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### Where Should You Focus?

<b>Dissatisfy</b>	<u>Delight</u>
Slow to respond	Be attentive to them
Don't be available	Be responsive
Don't be reliable	Care about them
Don't have integrity	Be friendly
Don't communicate	Communicate with them
Don't be competent	Be competent

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### Herzberg-ish Model High 🔥 Critical Hygiene Availability Reliability Communication Integrity Competency **Functionality** Potential Attentivene dissatisfy Care Comfort Neutral Courtesy Enhancers Aesthetics Friendliness Flexibility Low Low Potential to delight © 2017 David Norris, LLC. All rights reserved

### How to Get the Data

Questionnaires & surveys
Customer advisory panels
New & lost customer surveys
Complaint & compliment analysis
system

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### Design & Deliver



### The Servicescape



### Servicescape

In healthcare, the patient will experience the service we provide in a physical environment

It comprises everything the patient will see, touch, and how those physical aspects impact their experience

They provide clues to the patient as what to expect Chairs, odors, music

Patients will use all of their senses to build their experience Using a servicescape can help you design your service It's a large part of the experience

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### Customer Experience Statement

Define the experience you want the patient to have

The experience and outcomes from their point of view

Include the emotions they should feel as a result of the experience and benefits of the service

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### The Power of Emotion

Seven primary emotions

Joy Surprise

Love

Fear

Anger

Shame

Sadness

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### The Power of Emotion

Emotions drive decisions

Limbic system overrules any perceived rational decision-making

In fact, emotions drive the decisions and rational brain searches for reasons to justify the emotion

Responses to emotions are swift and powerful and can be permanent

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### Front or back?

Front office processes

Face to face

Telephone

Internet services & remote

interaction

Back office processes

Building the chart

Billing the proper fee

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### Design the Experience

Customer journey mapping

Walk-through audits

**Emotion mapping** 

Customer experience analysis

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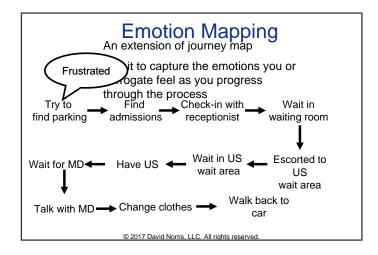
### **Customer Journey** Map out the touch points between you and the patient Check-in with Try to waiting room find parking admissions receptionist Wait in US Escorted to Wait for MD← Have US ← wait area US Walk back to Talk with MD → Change clothes -© 2017 David Norris, LLC. All rights reserve

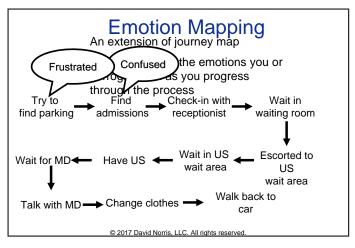
### Walk-through Audit

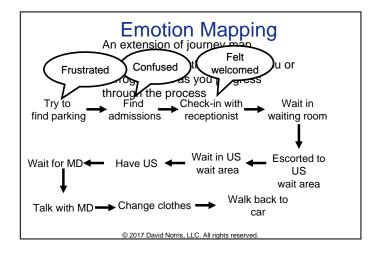
You, other staff, consultants act as surrogate patient

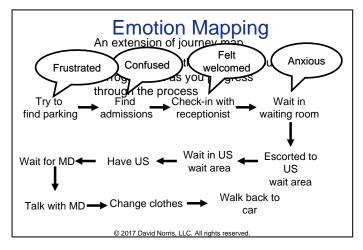
Develop checklist of questions you want the surrogate to answer as they experience the process

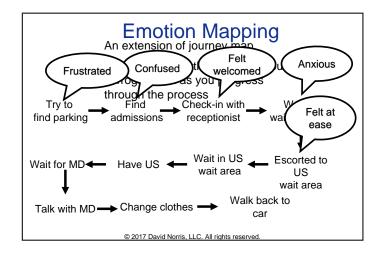
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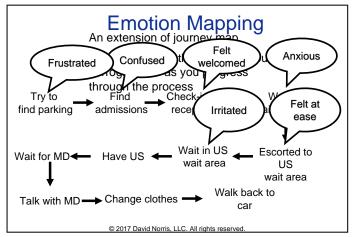


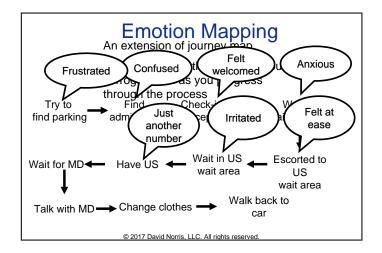


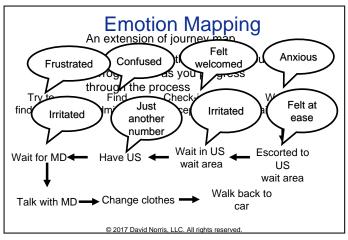


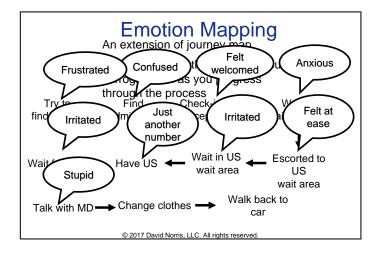


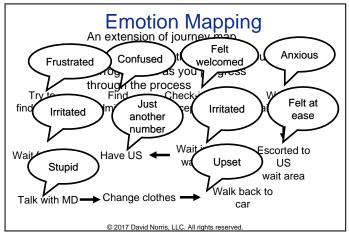












# Put together all three pieces Journey map Walk-through audit Emotion map

**Customer Experience Analysis** 

Create one large diagram of customer experience in your process

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# Designing the Customer Experience



# Types of Flowcharts



# **Workflow Mapping**

AKA

Flowcharts

Flow maps

Flow diagrams

Flow sheets

Process maps

Simply a visual representation of a process

The sequence of events of a process from start point to end point

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# Workflow Map Uses

Provide visual representation of process

Are things really happening the way we think?

Provide starting point for improvement of the process

Ability to identify roles and responsibilities of the process

Ability to maintain the process

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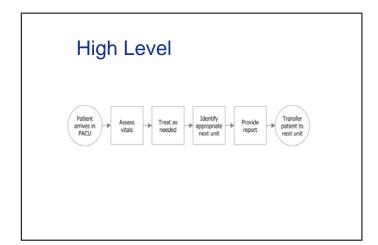
# Types of Flowcharts

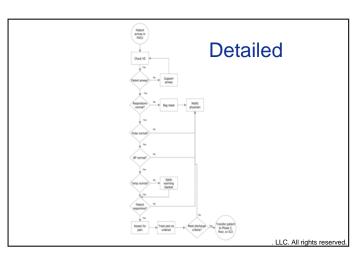
High level - provide brief overview of the process

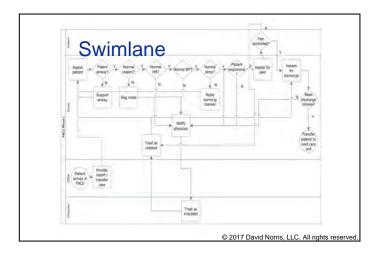
Detailed - maps out every step in the process

Includes decision points, waiting times, feedback loops

Swim-lane - displays process as carried out by the different roles across multiple stages of the process







# Creating the Maps



#### Questions to Ask

Does this process support the mission and purpose of the business?

Does each activity add value?

Who is responsible for the process?

Who owns the process?

Is the process "in control"?

How efficient is the process?

How can the process be improved? Is it possible to develop a standard for this process?

Does this process or a part of it need to be moved up or back in the timeline?

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## Who is involved?

It'll take a team effort

Identify all parties involved in the process

Pick a champion or two

Gather all the facts, data, and material

Have those selected members craft the process map

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# Start Simple

Craft the overview map first

Then the detailed map

Finally, craft a swim lane map

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# The Process

- 1. Identify the process to map
- 2. Being with high level map
- 3. Move to detailed map
- 4. Walk through process once or twice
- 1. Note the roles involved in the process
- 2. Use this data to create swim lane map
- 5. Validate the map
- 6. Identify quick fixes

#### Start with M&P

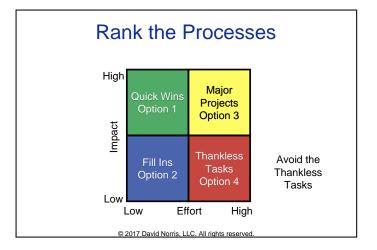
Begin with end in mind

Identify all the processes in your organization or area

Rank them according to how well they work, the number complaints each has, etc

Agree upon a start and finish point of the process to be mapped

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# Analyze the Map

Questions to ponder

- Where are the bottlenecks? What might be causing delays?
- · How much rework is required?
- Where are the errors occurring?
- · Where might role ambiguity be present?
- Where are steps duplicated? What steps are unnecessary?
- Where are the hand-offs?

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# Start with This Exercise

Get the team together

Outline the following process

Make a cup of coffee

Define the start and end points

You have coffee, the coffee maker (no single cup machines)

Map the process to illustrate what they'll be doing for the company's processes

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# **During the Exercise**

Did everyone discover what a process map is?

Does everyone understand the importance of a process map?

How did the team determine the start and end points?

How did the team deal with disagreements? How might these types of disagreements be handled in the future?

Did everyone participate? If not, why?

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# Once You've Got Your Map

**USE IT** 

## What to Avoid

Interview only a handful of people

Map the process you wish you had rather than the one that exists

Ignore the opinions of those who know the process the best

Put your map on a shelf or in a drawer and never look at it again

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# Bottlenecks and Queues



#### **Bottlenecks**

Part of a process that constrains or restricts capacity

Result in queues

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# Managing Bottlenecks

Theory of constraints

Ensure only essential work passes through the bottleneck

Eliminate non-essential tasks from the bottleneck

Ensure substandard work doesn't pass through the bottleneck

Once bottleneck has been identified, devote more attention and resources to ensure maximum throughput

Once you find the bottleneck, move it only if necessary. Sometimes simply knowing where it exists is enough in complex systems

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# Queues - Rules of Time

Perceived waiting time > actual waiting time
Unoccupied time feels > than occupied time
Anxiety only makes wait seem longer
Uncertain waits feel > than known wait times

Unexplained waits feel > than explained wait times

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# Queues - Rules of Time

Unfair waits feel > than equitable waits

Greater the value of service > longer patient will wait

Waiting by yourself feels longer than when with someone else

Discomfort wait feels > than comfortable wait

New patients will experience wait longer than established patients

# **Factors Creating Your Queues**

Three key aspects

Patient arrival rate

Rate patients can be seen

Number of providers available

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# **Dealing with Queues**

Theory of constraints

Stage with lowest throughput is rate limiting step

Ensure only essential work passes through the bottleneck

Remove non-essential activities at the bottleneck

Take steps to ensure maximum throughput and effectiveness of the bottleneck

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# Effects of Your People

Dealing with queues can be stressful for your people

They can cope with the demand up to a point, then they might "break"

Help your people "cope" with the queue

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# Coping with Queues

Start with the service concept - the mission and purpose

Determine how capacity utilization is measured

Understand the nature and impact of the "coping" zone

Determine the ideal operational area

Develop coping strategies

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# **Coping Questions**

What does the customer perceived quality/capacity look like?

What measures or early signals tell you when you're nearing the breaking point?

How does the patient suffer when you reach the breaking point?

How do your employees suffer?

What can be done to reduce the impact on patients and employees?

What can be done to keep you from the breaking point?

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# Dealing with Complaints



# Why Customers Complain

Want problem corrected

Prevent problem from happening again to others

Want an explanation of what occurred

Want someone punished

Want money

Want to feel better

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# Tips on Dealing with Complaining Customers

Acknowledge the problem happened

Empathize with them - understand their POV

Apologize (might be enough) "I'm sorry this happened to you."

Own the problem

Involve leadership when problem/complaint serious

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# Most Customers Don't Complain

49% of dissatisfied customers don't complain in a restaurant 44% of dissatisfied customers don't complain in a store They will complain to others, just not you

50% don't believe it will fix anything Comment cards, website, feedback

	Biases
Halo Effect	Good at one thing, good at another. Bad at one thing, bad at another.
Availability	Because I've seen it, it must happen a lot
Spurious Awareness	I think I know things that really are not so
Anchoring	People tend to latch onto information presented early and then fail to update when new information is presented
Recency	People tend to pay more attention to what has happened recently, even if it's not representative of what usually happens
Selective Preception	People tend to give credence to what confirms their beliefs and discount those things that contradict their beliefs
Memory/hindsight	People remember things differently from what actually happened
Confirmation bias	People tend to see only that part of the data that supports their positions © 2017 David Norris, LLC. All rights reserved.

# What's Your Progress

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Analyze your metrics at each milestone

Are goals being achieved?

Are any adjustments needed?

Are there any morale or attitude issues?

Should any adjustments be made?

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# Document the Results

Revisit each countermeasure

Did the change support the mission and purpose?

Was the patient experience improved?

Was complexity eliminated?

Was confusion eliminated?

Was target met and did it support the objectives?

## Document the Results

Revisit each countermeasure

Was the root cause addressed?

Did positive change occur?

What was the financial impact of the countermeasure?

Are you better off now than before?

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# Conclusion



# Have a Plan

SOAP Note approach

**Subjective** - How are you performing? What did the last period feel like?

**Objective** - Examine the metrics and reports.

Assessment - Pool all the data and determine how you are trending

**PLAN** - Know where you want to go and make a plan to get there

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#### **SELF EVALUATION**

#### **Practice Process Evaluation and Improvement**

- **1.** Aspects of a service include the following:
  - a. Intangibility
  - b. Simultaneous production and consumption
  - c. Close proximity to the patient
  - d. Cannot be inventoried
  - e. All of the above
- **2.** Before you begin any process improvement program, an understanding of your service concept is necessary. Which of the following should be defined prior to beginning any improvement efforts?
  - a. The mission and purpose of the organization
  - b. The mission and purpose of the process
  - c. The service being provided
  - d. What you want the customer to experience
  - e. What outcomes for the customer you desire
  - f. All of the above
- **3.** Items that must be in place to satisfy patients, but will not delight them include:
  - a. Reliability
  - b. Availability
  - c. Friendliness
  - d. Integrity
- **4.** T/F One of the more effective tools in designing a service that delights the patient is emotion mapping.
- **5.** Queues and bottlenecks are inherent in any process. Understanding how your patient experiences the wait is critical as you design your services. Which of the following is FALSE:
  - a. Perceived wait times feel longer than actual wait times
  - b. Anxiety makes waiting feel longer for the patient
  - c. Waiting alone makes the wait seem longer for the patient
  - d. Pain makes the wait seem longer
  - e. Explained wait times feel longer than unexplained wait times
- **6.** T/F Almost half of dissatisfied customers do not complain about the service they receive.
- **7.** T/F Bottlenecks not only effect your patients, but your staff as well.

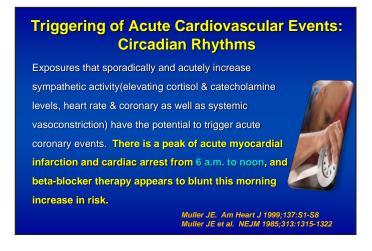
**Answer Key:** 1. E, 2. F, 3. C, 4. T, 5. A, 6. T, 7. T

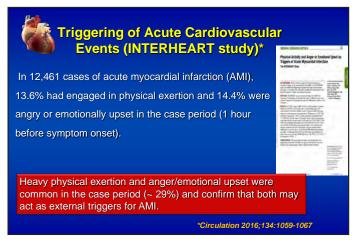
Beaumont Health Health Center 4949 Coolidge Highway Royal Oak, MI 48073

#### **Acute Cardiac Event Triggers and Novel Preventive Strategies**



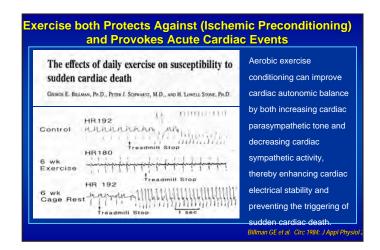






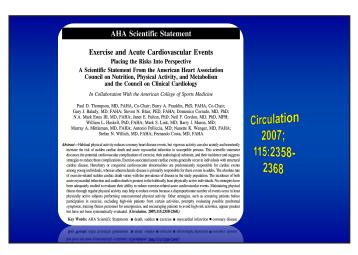


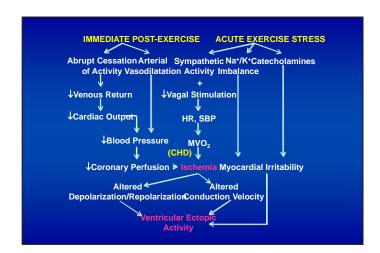


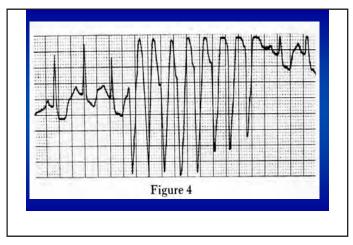


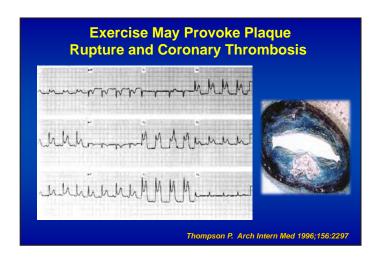


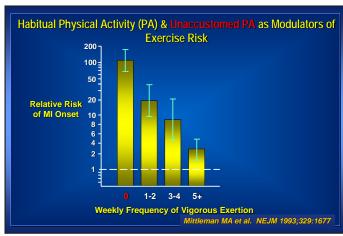


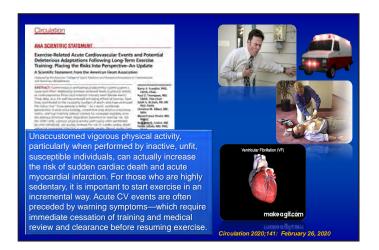


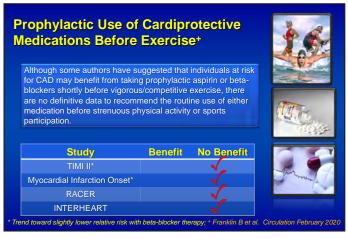


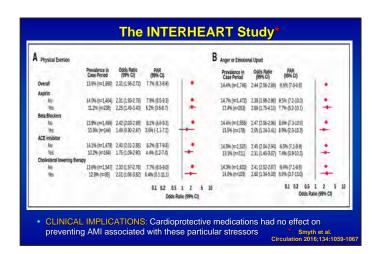




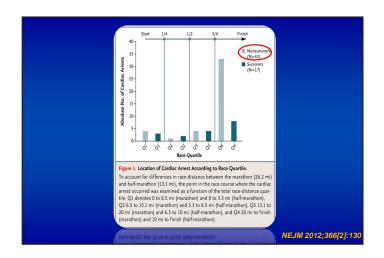








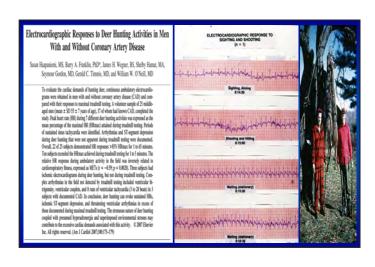


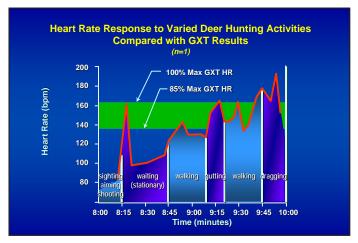






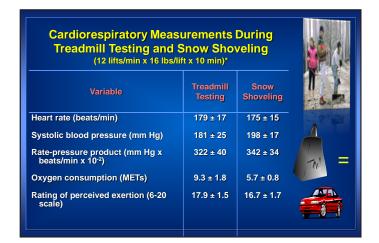


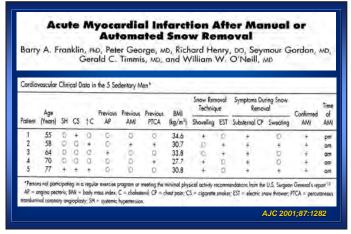


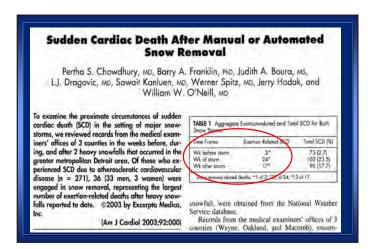


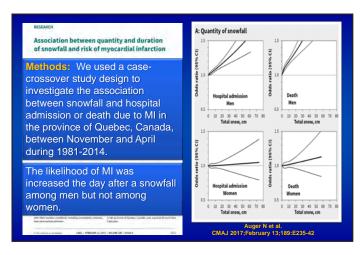


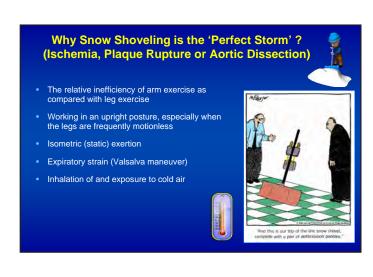


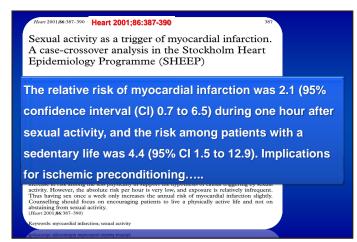


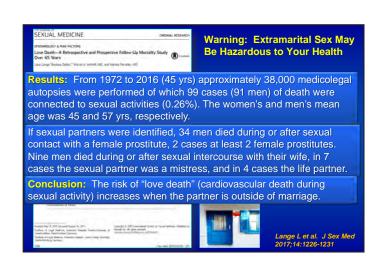


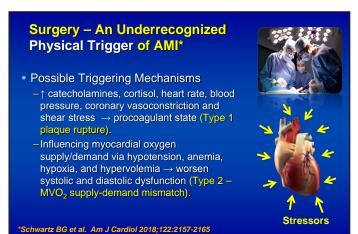


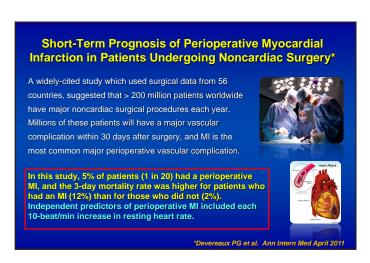


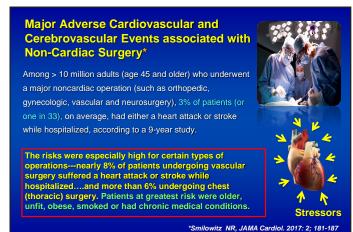


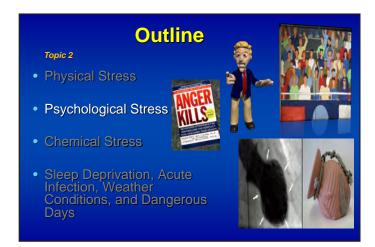


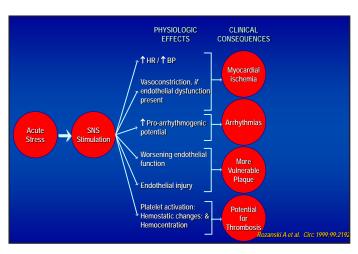


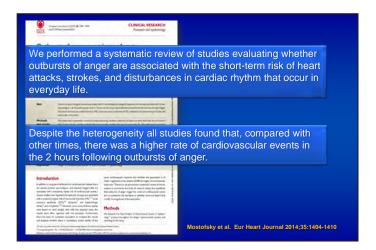


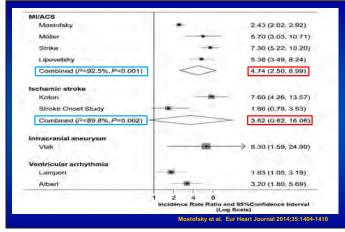


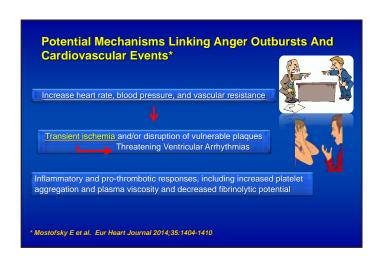


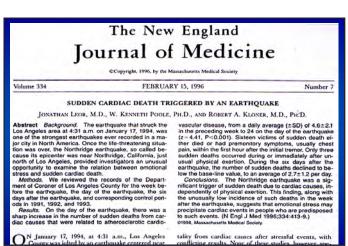


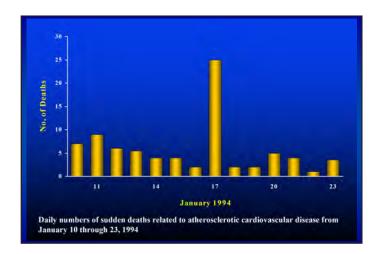


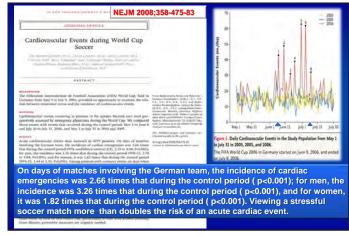




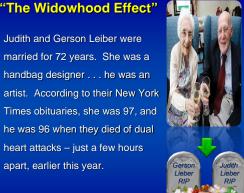


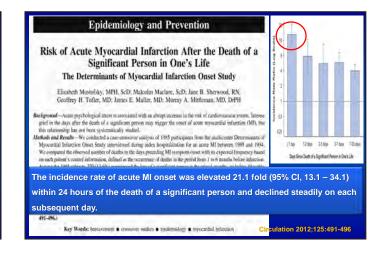


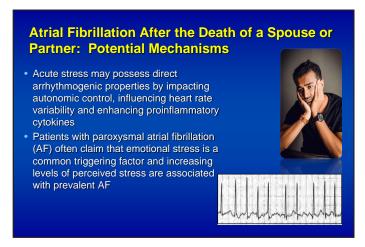


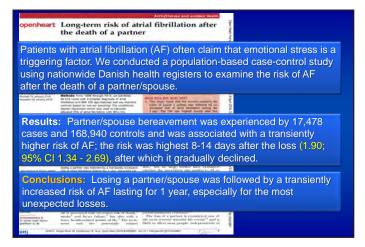


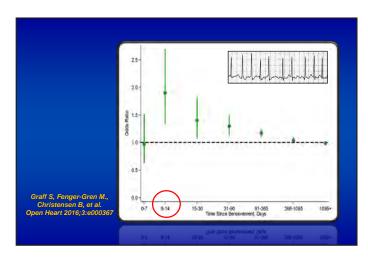


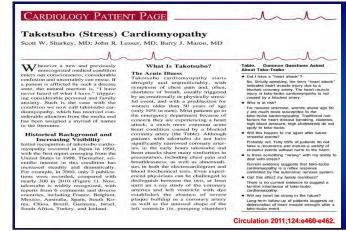


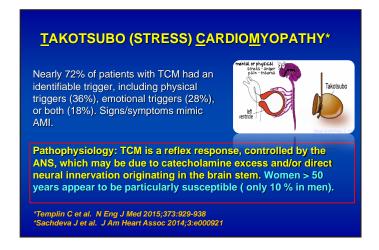




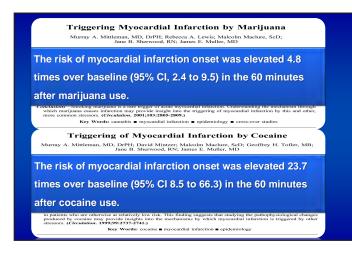


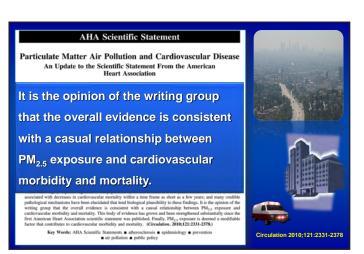




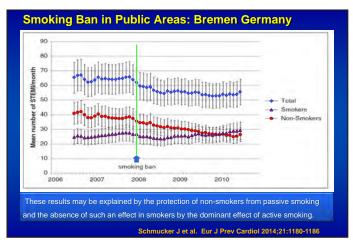




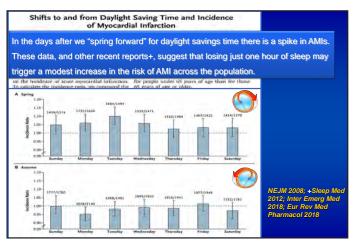


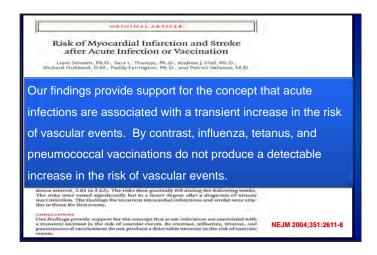


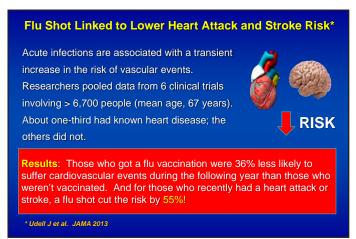


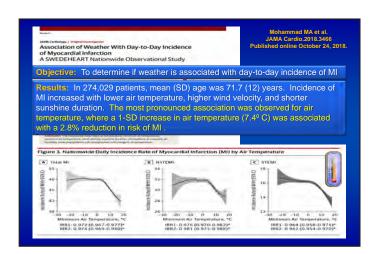


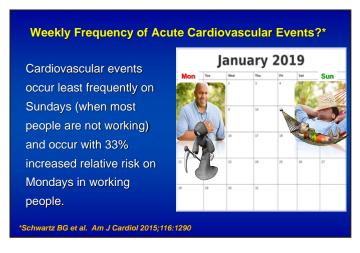


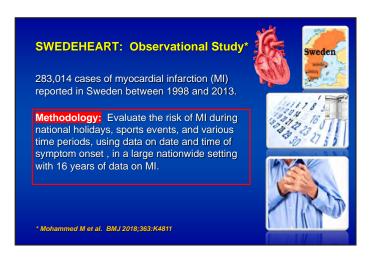


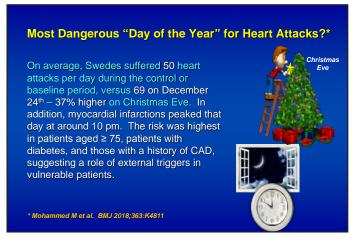






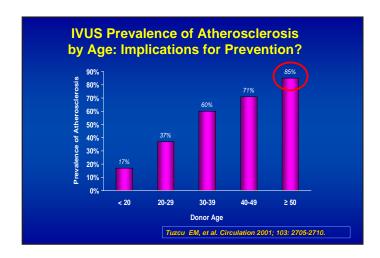


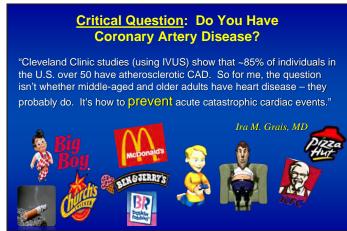
















#### **SELF EVALUATION**

# **Acute Cardiac Event Triggers and Novel Preventive Strategies**

	Acute Gardia Event Higgers and Novel Freventive Gardiagnes
1.	According to the INTERHEART Study, heavy physical exertion and anger/emotional upset serve as triggers for acute myocardial infarction in approximately% of all cases.
	<ul><li>a. 9</li><li>b. 19</li><li>c. 29</li><li>d. 39</li><li>e. 50</li></ul>
2.	Patients at greatest risk for cardiovascular events following non-cardiac surgery were:
	<ul> <li>a. Unfit</li> <li>b. Obese</li> <li>c. Cigarette smokers</li> <li>d. Afflicted with chronic diseases</li> <li>e. All the above</li> </ul>
3.	Intense grief in the days after the death of a significant person in one's life may trigger the onset of acute myocardial infarction. According to one study, the incidence rate of acute myocardial infarction was elevatedfold within 24 hours of the death of a significant person and declined steadily on each subsequent day.
	<ul> <li>a. 11</li> <li>b. 21</li> <li>c. 31</li> <li>d. 41</li> <li>e. None of the above</li> </ul>
4.	According to a classic, widely cited report, the risk of heart attack was elevated times over baseline in the 60 minutes after marijuana use.
	<ul><li>a. 5</li><li>b. 10</li><li>c. 15</li><li>d. 20</li><li>e. 24</li></ul>
5.	T/F - Smoking bans appear to significantly reduce the incidence of acute cardiac events and the effect appears most pronounced in non-smokers.
6	T/E. In the days after we "enring forward" for daylight sayings time there is a decrease in the

6. T/F - In the days after we "spring forward" for daylight savings time there is a decrease in the incidence of acute myocardial infarctions.

**7.** T/F - The most dangerous day of the year for heart attacks is Christmas Eve.

**Answer Key:** 1. C, 2. E, 3. B, 4. A, 5. T, 6. F, 7. T

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#### **Effective Time Management: Challenges and Strategies**

Managing multiple responsibilities and time lines in a time-effective and time-efficient way can be challenging for helping professionals. Even if you happen to be a reasonably good manager of time, it can be especially difficult to address barriers that can potentially sabotage your achieving critical personal and professional goals. These barriers include: procrastination, managing various types of correspondence and data, having to balance multiple roles and responsibilities, answering to more than one boss or supervisor and having difficulty prioritizing and delegating tasks.

This program is designed to assist helping professionals develop specific skill sets that are essential in managing time and multiple tasks successfully. As a result of completing this course, participants will be able to:

- 1. Assess their current level of skill in managing time and multiple priorities;
- 2. Reduce/eliminate chronic procrastination and other barriers to managing time effectively;
- 3. Reduce unnecessary stress and anxiety associated with managing multiple tasks and deadlines;
- 4. Set realistic, action-oriented goals;
- 5. Delegate tasks more effectively; and
- Negotiate multiple tasks and deadlines when answering to multiple bosses or supervisors.

#### I. Introduction

- A. How well do you think you manage your time? (see inventory, Handout A.)
- B. Are you a procrastinator?
  - e.g., Do you often wait until the last minute to start a project?
  - e.g., Do you often put off making a decision about something?
  - e.g., Do you find that you miss deadlines at work?
- C. Time management is a skill which can be learned; it will take work and practice to overcome the old habits.

#### II. A Major Problem: Procrastination

- A. Reasons we procrastinate: (Refer to Handout B)
- B. Addressing procrastination strategically (Refer to Handout B)

#### III. Another Major Problem: Interruptions

- A. Most interruptions come about because the priorities of someone else come into conflict with what you have planned.
- B. How to manage:
  - 1. Setting limits is critical.
  - 2. Don't prolong a conversation or do anything to extend an interruption.
  - 3. Plan for the fact that there will be interruptions and anticipate how you will deal with them, e.g., using voicemail to screen calls.
  - 4. Don't use interruptions as an excuse to avoid your work; this fuels procrastination.
  - 5. Don't encourage unnecessary telephone calls from family and friends.
  - 6. Don't start another project before you finish the first one. When you have too much going on at once, you interrupt yourself mentally by focusing on the wrong project at the wrong time.
  - 7. Don't procrastinate. Once you have the time, use it wisely.
  - 8. Set aside blocks of time each day to "delete" or respond to emails. Do not check emails multiple times a day; this will create unnecessary stress and may prevent you from completing more important tasks.
  - 9. Be assertive with your superiors about what you can reasonably accomplish if they are going to interrupt you throughout the day. Constant interruptions undermine forward momentum with any project; they also increase the likelihood of errors and missed deadlines.

- 10. Be realistic with yourself. "Guesstimate" how long it will take you to complete a project and then double that estimate. This estimate of extra time required will allow for interruptions.
- 11. Reward yourself for managing interruptions; reward others for respecting your limits and boundaries.

#### IV. <u>Learn to handle correspondence...</u>

#### A. Emails out:

- 1. Brief, to-the-point; excellent grammar/spelling
- 2. Refrain from using all "CAPS"; this implies anger; strong emotions, such as anger, should not be expressed in an email.
- 3. Would it be more efficient to just <u>call</u> this person and have a short telephone conversation?

#### B. Emails in:

- 1. Set aside blocks of time at beginning or end of each day to attend to these.
- 2. "Delete" as many as possible.
- 3. Prioritize those which require an immediate response.
- 4. Delay responding to other emails that require greater thought/preparation and that are not urgent.

#### C. Learn how to handle paper correspondence:

- 1. Sort all incoming paper:
  - a. To-do file
  - b. To-file file
  - c. Trash/to be shredded file
- 2. Set aside a block of time each day to handle current business.
- 3. Develop a personal filing system for paper that you will need to retrieve.
  - a. Label file with the broadest possible category (e.g., certificates, reports, job descriptions, etc.)
  - b. Arrange strictly alphabetically
  - c. Avoid a miscellaneous file
  - d. If you think that you might possibly need the item someday, that's a clue that you should not throw it away
- 4. Create electronic files for email correspondence using same guidelines as above.

#### V. <u>Time Management: Additional Pointers/Strategies:</u>

#### A. Ways of gaining extra time

- 1. Do the job more efficiently in less time than usual.
- 2. Use small blocks of time that you normally waste.

#### B. Values of time scheduling

- 1. You waste less time; have more free time.
- 2. Scheduling priorities in advance frees the mind.
- 3. Gets you started; provides direction and focus
- 4. Prevents avoidance of disliked tasks
- 5. Monitors slacking off process
- 6. Eliminates cramming; goal-achieving vs. tension-relieving
- 7. You don't overlook recreation.
- 8. Regulates daily living; keeps crises to a minimum
- 9. Will help you advance within an organization

#### C. How to make a time schedule

- 1. Eliminate dead hours make each unit productive.
- 2. Use daylight hours for difficult mental tasks.
- 3. List according to priorities.
- 4. Do not over-organize.
- 5. Know your sleep pattern and natural cycles.
- 6. Discover how long it takes to complete a given task and then schedule accordingly.
- 7. Plan in blocks of time 50 minute work, 10 minute break.
- 8. Allow plenty of time for sleep, meals, recreation.

#### D. Types of schedules

e.g., weekly, daily

#### E. Use of reward in time management

e.g., give yourself a special "treat" when you complete an especially difficult task.

#### VI. Special Tips for the Chronically Late:

- A. Put yourself on a tight and consistent schedule; routines soon become second nature and make it easier to get moving and get things done.
- B. Have a clock in every room even the bathroom.
- C. Set the clock 10 minutes ahead.
- D. In your calendar, mark your appointments a little earlier than they really are.
- E. Use timer to limit phone calls or to time how long it takes to complete a given task.
- F. Double estimate of time for travel to account for traffic delays.

#### VII. Reducing unnecessary stress/anxiety

#### A. We create stress/anxiety through:

- 1. Worrying about situations we have little or no control over
- 2. Perfectionism, i.e., expecting too much of ourselves or others
- 3. Competition, i.e., turning every encounter into a win-lose situation
- 4. <u>Self-criticism</u>, i.e., you focus inordinately on real or perceived faults and do not acknowledge your strengths
- 5. Insecurity, e.g., looking to others for something that must come from within
- 6. Unverifiable assumptions about how others feel and what they want from you
- 7. Powerlessness, e.g., failing to see the choices that are available
- 8. Hurrying, e.g., constantly pushing yourself to perform better and faster
- 9. <u>Comparisons</u> of your achievements, or lack of them, to those of others
- 10. Pessimism, e.g., you expect failure or the worst from life
- 11. Unrealistic expectations, e.g., that life should be easy or problem-free

#### B. <u>Tips for reducing job-related stress</u>:

- 1. <u>Take charge of your situation</u>. To the extent possible, set and re-set priorities. Take care of important (and difficult) things first. Organize your time.
- 2. <u>Be realistic about what you CAN change</u>. Don't doom yourself to frustration and failure. Do what's possible. Accept the rest.
- 3. Take one step at a time. Divide each project into manageable steps. Decide on a first step. Do it. Feel better?
- 4. <u>Be honest with colleagues</u>. This includes the boss. Make it plain you feel in a bind. Chances are others are feeling the same. Don't just complain. Be constructive and make practical suggestions for improvement.
- 5. <u>Let your employer help</u>. Many companies help their employees deal with the effects of stress through diet, smoking and alcohol clinics, corporate fitness programs and personal counseling and employee assistance programs. Find out what's available to you.
- 6. <u>Slow down</u>. Learn to say "no". Drop activities that are not crucial.
- 7. <u>Recognize danger signals</u>. Learn the symptoms of job stress and take action as soon as they appear to be getting out of hand.
- 8. <u>Take care of your physical health</u>. It increases your stress tolerance and stamina. Eat and sleep sensibly. Cut down on alcohol, tobacco and drugs. Get plenty of exercise.
- 9. <u>Learn to relax</u>. Find a safety valve, whether it is a sport, hobby, music, reading or just walking. Use it to create a "bridge" between work and home life.
- 10. <u>Don't neglect your private life</u>. Work out a schedule which allows you to do justice to both work and personal life. Stick to it.
- 11. Share your stress talk about your concerns with a colleague, friend or counselor.
- 12. <u>Know your limits</u> set realistic goals for yourself and others.
- 13. Learn how to manage your time and priorities more effectively.
- 14. Assess and address any job-related skill deficits, i.e., additional training and education.
- 15. <u>Limit major changes</u>; avoid making too many <u>major</u> changes in your life at one time; allow for a period of adjustment for each major change.

#### VIII. Special Focus: Goal-Setting

- A. Are measurable and realistic
- B. Compatible with your mission/objective
- C. Time specific
- D. In writing (well-defined) and important
- E. Ownership (commitment) and accountability
- F. Negotiated (agreed-upon)

#### IX. Special Focus: Delegation Skills

#### A. Why we do not delegate:

- 1. "I can do it better."
- 2. "It's easier if I just do it."
- 3. "I'm not sure I can trust this person to do the job well."
- 4. "If they screw-up, it reflects badly on me."
- 5. "It must be done perfectly."

#### B. Key guidelines for delegating effectively:

- 1. Explain the task thoroughly and specifically.
- 2. Define the purpose of the task.
- 3. Give and get feedback about how to do the task.
- 4. Give the delegates authority and responsibility.
- 5. Do <u>not</u> hover/"micro-manage". Be methodical.
- 6. Make the delegates accountable. Establish interim deadlines for accomplishments.
- 7. Give positive and corrective feedback as needed.
- 8. Recognition, recognition, recognition.

#### C. When you are the delegatee:

- 1. Ask for resources.
- 2. Seek out authority.
- 3. Have regular meetings with the delegator to get feedback.
- 4. Follow up with email clarifying your understanding of expectations.
- 5. Find out what potential traps exist, e.g., does the delegator have a history of being inordinately controlling or critical?
- 6. Say NO assertively to new tasks when you are already overloaded.

#### D. Answering to more than one boss:

- 1. Clarify the priority of the task in comparison to other tasks assigned by different bosses.
- 2. Encourage your bosses/supervisors to have conversations with each other when there is a conflict regarding each's priorities
- 3. Have regular meetings with each boss/supervisor.
- 4. Put tasks on paper and diagram time lines for each task.
- 5. Ask each boss/supervisor to give you more specific deadlines for each task.

#### X. Questions/Closure

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#### SELF EVALUATION

#### **Effective Time Management: Challenges and Strategies**

- 1. Which of the following are examples of procrastination?
  - a. You wait until the last minute to start a project.
  - b. You often put off making decisions.
  - c. You have a tendency to miss deadlines at work.
  - d. All of the above are examples of procrastination.
- 2. Which of the following is <u>not</u> a primary cause for procrastination?
  - a. You are not perfectionistic and rarely have a fear of failure.
  - b. You feel overwhelmed.
  - c. You may overestimate the time required to complete a task, making the task seem more daunting.
  - d. You really don't want to do the task in question and would rather be doing something else.
- **3.** Which of the following <u>reduces</u> procrastination?
  - a. Proceeding one-step-at-a-time is helpful.
  - b. Learn how to prioritize tasks.
  - c. Take a large task and break it down into smaller tasks.
  - d. All of the above should reduce procrastination.
- **4.** Which of the following is <u>not</u> true about managing interruptions?
  - a. Most interruptions occur because the priorities of someone else come into conflict with what you have planned to do.
  - b. Managing interruptions rarely involves setting limits or boundaries with others.
  - c. You should not use interruptions to avoid your work; this fuels procrastination.
  - d. It is better to complete one project before moving on to the next task.
- 5. Which of the following is recommended for handling outgoing emails?
  - They should be brief, to-the-point and have excellent grammar, punctuation and spelling, e.g., no "runon" sentences.
  - b. Refrain from using all "CAPS"; this implies frustration, anger or other strong emotions; not appropriate for an email.
  - c. Would it be faster, more efficient to call this person and have a brief telephone conversation?
  - d. All of the above are recommendations for handling outgoing emails.
- 6. When dealing with in-coming emails:
  - a. Set aside specific blocks of time at the beginning and end of each day to respond to these.
  - b. "Delete" as many as possible.
  - c. Prioritize those emails which require an immediate response.
  - d. All of the above are true.
  - e. Only "A" and "C" are true.
- 7. Which of the following strategies is not recommended when managing time?
  - You can gain extra time if you can do a given job more efficiently in less time than usual.
  - b. It is often helpful to use small blocks of time that you might normally waste.
  - c. Use late afternoon or evening hours to tackle more difficult tasks.
  - d. Allow plenty of time for sleep, meals and recreation.
- 8. If you tend to be chronically late for meetings and appointments:
  - a. Set all of your clocks ten minutes ahead.
    - b. On your calendar, record your appointments a little earlier than they are.
    - c. Put yourself on a tight and consistent schedule.
    - d. Double estimates of time for travel to account for traffic delays.
    - All of the above strategies will reduce chronic lateness.
- 9. Professional caregivers can create unnecessary stress through which of the following?
  - a. Perfectionism
  - b. Excessive self-criticism
  - c. Hurrying, i.e., constantly pushing yourself to perform better and faster
  - d. All of the above
- 10. Which of the following is not a tip for reducing job-related stress?
  - a. Learn how to relax.
  - b. Do not worry about job-related skill deficits.
  - c. Limit major changes.
  - d. Be realistic about what you can change.

**Answer Key:** 1. D, 2. A, 3. D, 4. B, 5. D, 6. D, 7. C, 8. E, 9. D, 10. B

# **FACULTY**

# Michael J. Howell, MD, FAAN, FAASM

Michael J. Howell, MD, FAAN, FAASM, of Minneapolis, Minnesota, is an associate professor of Neurology at University of Minnesota where he co-chairs the neurology department's education section. He is board certified in both neurology and sleep medicine and is a fellow of the American Academies of both specialties. Dr. Howell is a frequent international speaker, a co-investigator of numerous research projects, widely published and co-founder and president of Sleep Performance Institute.

You may contact Dr. Howell with your questions and comments at REMwalkers@gmail.com.



#### Introduction to Sleep and Circadian Rhythm Well Being

#### Contents

- Find a new motivation for healthy sleep
- Understanding and identifying your circadian rhythm
  - Adjusting your circadian rhythm
- What to do when you can't fall asleep
- Evidence based review on supplements for sleep and wakefulness
- Screening for sleep disorders across the day
- Become a good napper

#### Finding motivation that resonates

- Improving sleep often takes behavioral change.
- Benefits of sleep on:
  - The Brain
  - Cardiovascular health
  - Weight Management
  - Immune Health
  - Athletic, Professional and Artistic Performance

### Better sleep and the brain

- Vigilance and alertness
  - Improve safety
  - Fewer accidents
- Mood and temper
  - Decrease depression
  - Decreased suicidal ideation
- Anxiety
  - Decreased anxiety and more manageable phobias

(Olaithe et al 2018, de Zambotti et al 2018, Steel et al 2018)

#### Better sleep and the brain

- Substance abuse
  - Helps those trying to modify substance use and abuse
- Glymphatic clearance
  - Removes toxic metabolic by products.
  - Relationship to Alzheimer's disease and concussion pathology
- Chronic pain
  - Decreases the likelihood of developing chronic pain
  - Lessens pain burden for those already in chronic pain

(Finan et al 2013, Sun et al 2019, Cordone et al 2019)

# Better sleep and cardiovascular health

- Coronary artery disease
  - Fewer heart attacks
- Heart function
  - Improved cardiac performance
- Heart rhythm
  - · Decreased cardiac arrhythmia's
- · Cerebral artery disease
  - Fewer Strokes

(McDermott et al 2018, Kwon et al 2018)

# Better sleep and weight management

- Appetite
  - Decreased hunger
  - Increased satiety
- Thermogenesis
  - Increased capacity and motivation for exercise
  - Increased NEAT: Non-Exercise Activity Thermogenesis
- Nutrition choices
  - Improved selection of healthy foods

(Sun et al 2019, Zhu et al 2019)



#### Better sleep and the immune system

- Pathogens
  - Decreases infections
  - Shortens response time
- Malignancy
  - Improve immune surveillance
- Vaccination Response
  - Promotes stronger immune response



(Faraut et al 2012)

# Better sleep and performance

- Professional
  - Decreased burnout for health care providers
  - · Better interpersonal interactions
  - · More creativity and better problem solving
- Athletic
  - · Faster reaction times
  - Fewer errors
  - Greater accuracy

(Mah et al 2011, Benton et al 2013, Stewart et al 2019)

## Circadian Rhythm

- Your bodies 24-hour biological clock.
- Ubiquitous through out nature
- Cellular genetic machinery operates in 24 hour DNA-RNA-Protein feedback loop.
- Controlled by the suprachiasmatic nucleus in the hypothalamus
- A primary determinant of the wake-sleep cycle

#### Circadian Rhythm diversity

- Circadian rhythms exist upon a diverse range.
  - Early Birds-Circadian Advance
  - Night Owls-Circadian Delay
- Circadian diversity can be clearly advantageous for a population.
- Conversely, circadian diversity can be a challenge when work, school and social life misaligns with inherited trait.

#### Circadian Rhythm disorders

- When environment and lifestyle are misaligned with intrinsic biological clock.
  - Jet Lag
  - Social Jet Lag
- Circadian Rhythm disorders commonly present as sleep problems.
  - Circadian Rhythm Delay
  - Circadian Rhythm Advance

# Circadian Rhythm disorder Delay

- Difficulty initiating sleep.
  - Often misdiagnosed as an Insomniac
- Difficulty waking up the AM.
  - Often misdiagnosed as a narcoleptic or related disorder of hypersomnia.

(Culnan et al 2019)

#### Circadian Rhythm Delay

- Common especially among adolescents and young adults.
- Related to the brains response to evening light exposure.
  - In large part a modern disorder.
    - In 1700—approx. 500 lumen hours/year
    - In 2010-approx.. 500,000 lumen hours/year



















Hypothalamus-

Nucleus (SCN)

Suprachiasmatic

#### Circadian Rhythm Delay

- Common especially among adolescents and young adults.
- Related to the brains response to evening light exposure.
  - In large part a modern disorder.
    - In 1700—approx. 500 lumen hours/year
    - In 2010-approx.. 500,000 lumen hours/year













End Organs (all of them)

Hypothalamus-

### Treatment-Circadian Rhythm Delay

- Avoid sleeping pills and avoid daytime stimulants
- - Sunlight or a 10,000 lux light box
  - Use at a consistent time (7 days a week) for 30—120 minutes
- - Melatonin 0.5-1.0mg po 3-4 hours before bedtime.
  - Dim screens and use blue light blocking software
- Be mindful of meal timing

(Culnan et al 2019)

### Circadian Rhythm Advance

- Difficulty staying awake in the evening.
  - · Falling asleep socially.
  - Troubles at movies, plays, dinner parties
- Difficulty waking up early and not being able to fall back
  - May lay in bed for several hours before getting up for the day.

(Culnan et al 2019)

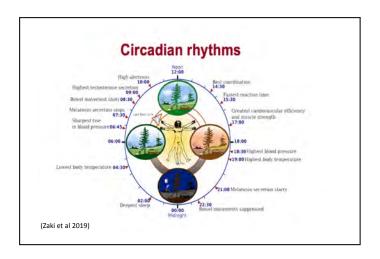
# Treatment-Circadian Rhythm Advance

- Avoid evening stimulants and middle of the night sleeping pills
- Evening
  - Sunlight or a 10,000 lux light box
  - Use at a consistent time (7 days a week) for 30—120 minutes
- Morning
  - Melatonin 0.5-1.0mg po during an early morning (for example 2AM) wakeup.
- Be mindful of meal timing

(Culnan et al 2019)

# Circadian Rhythm Disorders-Challenging

- Persistent sleep wake disorders resistant to conventional sleeping medications.
- More then just sleep and wake problems.
  - Appetite and weight management problems
  - Gut Motility issues
  - · Difficulty concentrating for work/school
  - Hormonal disruption



#### Insomnia-The experience

- Laying awake in a dark room trying to sleep
  - Frustrating
  - · Ruminating thoughts
  - · Non-stressful upcoming events become anxiety provoking
- The harder you try to sleep the more elusive sleep becomes

# Insomnia Etiology-a conditioned response

- Trying to sleep becomes an insomnia trap
  - Despite feeling tired the act of climbing into bed is an alerting not sedating response. Psychophysiological Insomnia develops as a conditioned response.
- Feel tired and sleepy outside of the bedroom
  - Alert once an insomniac climb into bed.
  - May sleep better in hotel's and out of the typical sleeping environment.
- Daytime consequences
  - Hypervigilance
  - CNS hypermetabolism

(Mitchel et al 2019)

#### First step in insomnia treatment:

- Primum non nocere First do no harm
- Stop promoting the adverse conditioned response
  - Stop lying in bed when not sleeping
  - The bedroom should be reserved for sleeping and sexual activity.
- Often requires difficult behavioral change
  - Patient often see recommendations as paradoxical

(Mitchel et al 2019)

# Insomnia Treatment-Cognitive Behavioral Therapy

- Cognitive Behavioral Therapy for Insomnia
  - Using Stimulus control, bedroom restriction and mindfulness you gradually decrease the adverse (wakeful) conditioning and promote positive (soporific) conditioning to the bedroom environment
- Usually administered by a licensed psychologist
  - Unique skill set from practitioners in other forms of CBT
  - Also available with evidence-based online programs.
- Very compelling evidence
  - Most effective strategy to cure insomnia.
- The two rules:
  - Get out of bed if you are not sleeping
  - Don't fall asleep outside of the bedroom.

(Mitchel et al 2019)

# Supplements for sleep and wakefulness

- Melatonin
- Iron
- Vitamin D

#### Melatonin



- Endogenous compound released from the pineal gland
  - Located at the base of the brain
- · Molecular signal of darkness.
  - Ganglion Cell Layer in retina → Suprachiasmatic nucleus → Pineal Gland → Melatonin secreted into vascular bed.

Melatonin-most important point

Melatonin is a circadian agent not a sleeping agent

#### Melatonin-evidenced based use

- For Circadian Disorders
  - Circadian Rhythm Delay
    - Small dose (0.5mg) 4-6 hours before bedtime
  - Circadian Rhythm Advance
    - Small dose (0.5mg) during middle of the night awakening
  - · Jet Lag Disorder
    - Small dose (0.5mg) taken 1-2 hour before new bedtime.
    - If possible begin 2-3 days prior to departure.

(Culnan et al 2019)

#### Melatonin-setting expectations

- Lower expectations that the treatment will immediately be effective.
- Increase expectations that treatment will be effective over days to weeks.
  - Especially when used in combination with light therapy.
    - Circadian Rhythm Delay-AM Light
    - Circadian Rhythm Advance-PM Light
    - Jet Lag Disorder-Light at time of desired destination wake up time.

(Culnan et al 2019)

#### Melatonin-Use in other disorders

- Most effective when used in setting of conditions that affect circadian rhythms.
- Neurodegeneration-Alzheimer's and Parkinson's disease
  - Breakdown in the night-day cycle is the strongest predictor of institutionalization.
- Circadian Strategy in Neurodegeneration
  - Address early
  - Small Doses 0.5mg 1 hour before desired bedtime.
  - Combine with morning light therapy.

(Videnovic et al 2015)

Iron

- Co-factor in the tyrosine hydroxylase
  - Rate limiting step in the production of CNS dopamine
  - In addition to its essential role in Red Blood Cells
- CNS dopamine deficiency a primary cause of restlessness.
  - Common in young healthy women.
    - Vegans/Vegetarians at higher risk.
    - Pregnancy exacerbates relative iron deficiency

#### Iron and restlessness

- Common reason for trouble falling asleep
- Often difficulty for patients to describe the discomfort
  - Discomfort causes an urge to move
  - Movement relieves the urge (although often only momentarily)
  - Worsens at night thus interferes with sleep
- Frequently the presenting complaint is often only "I cant fall asleep"

(Avni et al 2019)

#### Iron

- Difficult to measure
  - CNS iron stores v. serum iron
- · Serum ferritin is the most readily available marker
  - However hospital labs base low thresholds for iron deficiency anemia not for health CNS iron stores.
    - . Low normal values are often listed at 10mcg/l.
    - More appropriate low value would be 50mcg/l.
    - Sleep medicine consensus is even higher at 75mcg/l.

(Allen et al 2018, Avni et al 2019)

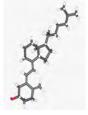
#### Iron-supplementation

- Oral supplementation is challenging
  - Poor intestinal absorption of elemental iron
  - · GI side effects.
- Increased absorption with iron gluconate formulation.
  - Recommend 325mg
  - Absorption improved when combined with 100mg Vitamin C.
- IV Iron replacement an option
  - · Ferric carboxymaltose

(Avni et al 2019)

#### Vitamin D

- Collection of fat-soluble hormones
  - Diet
  - UV exposed skin
- DNA transcription Effects
  - Mineralization
  - Inflammation
  - Immune function
  - Muscle tissue



(McCarty et al 2014)

## Vitamin D-severe deficiency

- Demineralization
  - Osteomalacia
  - Rickets
- Myopathy
- Hyperparathyroidism

(McCarty et al 2014)

# Vitamin D deficiency and the immune system

- Low levels promote Th-1 over Th-2 immunity
  - Pro-inflammatory
  - TNF-alpha promotes tissue destruction
- Upper airway inflammation
  - Asthma
  - Allergic Rhinitis
- Possible increased risk for autoimmune disorders
  - Multiple Sclerosis
  - Rheumatoid Arthritis
- Increased infection risk

(McCarty et al 2014)

# Vitamin D deficiency and sleep disorders

- Promote obstructive sleep apnea
  - Due to
    - tonsillar hypertrophy
    - rhinitis
    - upper airway myopathy
  - Independently promotes cardiovascular disease
- Excessive daytime sleepiness
  - Small studies suggest vitamin D replacement can address hypersomnia in some cases.

(McCarty et al 2014)

#### Vitamin D

- Measuring Vitamin D
  - Conventional definition of deficiency <20ng/ml
  - Based primarily upon rickets demineralization data
- · Limitations on single point testing
  - Variations by season and uncertain durations
- Dosing recommendations (primarily based upon consensus)
  - < 12 ng/ml=50,000 IU for 8 weeks
  - 12-20ng=5,000 IU
  - 20-30ng/ml=3,000 IU
  - 30-40ng/ml=1,000 IU

(McCarty et al 2014)

#### In the morning and during the day

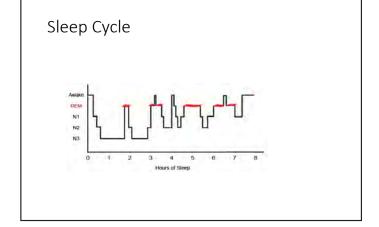
- When you wake up in the morning
  - You should feel like you are done sleeping.
  - Could not sleep in longer even if you tried
  - · Should feel hungry within an hour
- During the day
  - You should feel alert even when sedentary and without caffeine or other stimulant
    - Exception: afternoon nap time

#### In the evening

- Should feel alert after dinner
  - Able to stay awake even during passive activities
    - Watching a show or sporting event
    - Reading
- In the hour leading up to sleep
  - Should feel progressively sleepy
- Climbing into bed
  - Should feel comfortable
  - Should feel somnolent

### At night-breathing

- · Watch for snoring
  - Labored breathing
  - Gasping
  - Apneas
    - May be silent



#### At night-behaviors

- Normal to wake up intermittently at night
  - Abnormal to wake up and not be able to fall back asleep
- Amnestic behaviors
  - Sleepwalking
  - · Sleep eating
- Dream enactment
  - Common-1% general population; 5% in the elderly
  - Potentially injurious and can be a prodromal syndrome for Parkinson's disease

# Become a good napper

How do you know if you are a bad napper?

#### Nap drunkenness

- Occurs when napping brain is trying to fall asleep for the "night"
- Occurs when naps are
  - · Out of timing
  - Out of duration
  - · Out of practice
- Untreated sleep disorder
  - · Sleep deprived

#### Nap timing and duration

- Circadian Rhythm of Naps
  - Varies person to person
  - 12 hours from midpoint of natural sleep rhythm
- Duration
  - 10-20 minutes
    - Stages N1 and N2 Sleep (light NREM sleep)
    - Power Nap
  - 70-90 minutes
    - Stages N1, N2, N3 (Light and Deep NREM sleep), R (REM sleep)

#### Power napping routine

- Identify and practice during ideal nap timing
- Don't lay down or cover yourself
  - Drop in body temperature (0.5C) during N1 and N2 will act as a snooze alarm.
- Practice, Practice, Practice



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#### SELF EVALUATION

#### Introduction to Sleep and Circadian Rhythm Well Being

1.	Iron is a	Iron is a critical cofactor for the metabolism of which neurotransmitter?			
	a. b. c.	Dopamine Acetyl choline Gaba	d. e.	All of the above Non-of the above	
2.	Vitamin D Deficiency can promote obstructive sleep apnea through the following pathway(s)				
	a. b. c.	Tonsillar hypertrophy Upper airway myopathy Rhinitis	d. e.	All of the above Non-of the above	
3.	A person with a Circadian Rhythm Advance				
	a. b. c.	Will have difficulty falling asleep at night Will wake up several hours early and have trouble falling aback asleep. Will sleep in late into the morning when	d. e.	given the opportunity (weekends, vacation) Non-of the above All of the above	
4.	Improved sleep can				
	a. b. c.	Decrease suicidal ideation Decrease the likelihood of developing chronic pain Decrease pain burden for those already	d. e.	in chronic pain. Non-of the above All of the above	
5.	Waking up extra early in the morning is helpful for those trying to lose weight because				
	a. b.	They will get exercise and burn more calories Establishes the discipline to limit caloric intake.	c. d. e.	They will make better food choices. Non-of the above All of the above.	
6.	The following strategy(s) have been demonstrated to be effective in treating a Circadian Rhythm Delay.				
	a. b.	10,000 lux light box for 60 minutes at the same time in the morning. 10,000 lux light box for 60 minutes when ever an individual wakes up in the morning.	c. d. e.	10,000 lux light box for 60 minutes in the evening Melatonin 0.5 mg at bedtime. All of the above	
7.	The following strategy(s) have been demonstrated to be effective in helping people with insomnia fall asleep.				
	a. b. c.	An evening bath and chamomile tea. Evening exercise Bedroom restriction	d. e.	Take afternoon naps Non-of the above	
8.	Evening melatonin is effective for people with				
	a. b. c.	A Circadian Rhythm Advance A Circadian Rhythm Delay Hypervigilant Insomnia	d. e.	Restless Legs Syndrome All of the above	
9.	Napping				
	a. b. c.	In an adult is indicative of excessive daytime sleepiness In a child is Indicative of excessive daytime sleepiness Is a normal human physiological need	d.	across the lifespan Is to be avoided if a person has to perform (such as an athlete) in the evening.	

**Answer Key:** 1. A, 2. D, 3. B, 4. E, 5. D, 6. A, 7. C, 8. B, 9. C

# **FACULTY**

### **Kathy Gaughan**

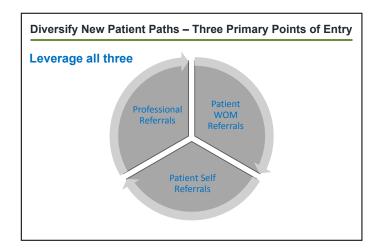
Kathy Gaughan of Irvine, California is Senior Marketing Strategist at Healthcare Success Strategies, a data driven healthcare marketing company. She has over 25 years experience in healthcare marketing having personally consulted with over 7,000 clients and created thousands of strategic plans for clients in myriad medical and institutional clients. Kathy has authored numerous articles in her field and has spoken to hundreds of audiences across the country.

You may contact Ms. Gaughran with your questions of comments by phone at (714) 328-2865, or email at kathy@healthcaresuccess.com.





#### Building Physician and Patient Referral Relationships Kathy Gaughan



#### **Diversify New Patient Paths - Points of Entry**

Developing a strong referral network is critical to ensuring the success of your medical practice. In order to grow your medical practice's revenue, it is important to attract new patients consistently. In addition to advertising and connecting with insurance agencies, establishing a reliable referral network is an excellent way to bring in new business.

Marketing to doctors for referrals works to build connections among healthcare offices to provide the best care for all of your patients. The majority of doctors in practices of every size recognize the importance of referrals in building a sustainable practice. In one survey, 78% of physicians ranked doctor-to-doctor referrals as very or extremely important. For specialists, that number jumps to 87%.

Specialist and PCP - Think "Outside of the Box"



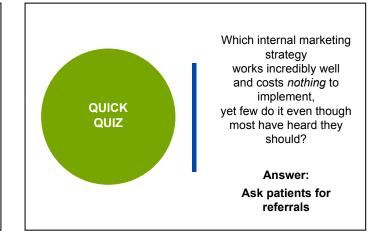
#### The Importance of a GREAT Patient Experience

- Enhancing patients' health care experiences means more than just providing top-notch clinical care. It requires care that addresses every aspect of the patients' encounters at the clinic – their physical comfort, their understanding of what's happening and their emotional needs.
- A better patient experience results in improved clinical and business outcomes. As competition for patients increases, patients may make provider choices based not only on clinical outcomes, but also on whether their doctor or mental health clinician delivers compassionate patient-centered

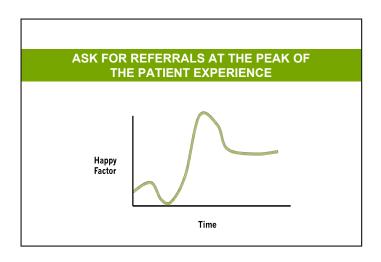


#### **Effective Patient Referral Tactics**

Put Fear Behind You
Simply Ask for the Referral
Obtain and expression of satisfaction, then ask
Go Above and Beyond
Follow Up With Patient Ambassador Program
One Minute Messages Delivered Verbally
Internal Signage, Sales Collateral and Looping Video
Your Website Content – Tell the Story, Make Sure You are
Easily Accessible
Make referring easy - KISS
Be Grateful
Reward referrals according to standards in your area



# ASKING PATIENTS FOR REFERRALS •No cost = infinite ROI •It works •Doctors and staff can all participate •Mark the patient chart with "AFR" code after they have been asked to refer •Ask at the peak of their experience



#### ASK FOR REFERRAL SAMPLE SCRIPT



"Mrs. Smith, we think you are just terrific.

We would love to treat more patients like you in our practice.

If you know of anyone who can benefit from our care, please let them know about us and we promise to take good care of them"

# CREATING PATIENT AMBASSADORS

Acknowledge all referrals with positive reinforcement

- •Warm phone call
- Thank you note

Encourage frequent referrers to become "Health Ambassadors"

- •Arm them with your marketing materials
- •Make them feel special



#### **PATIENT EMAILS**

- •Build opt-in email list
- -Intake forms
- -Incentives at front desk
- •Promote specific services and ask for referrals
- Special offers
- Frequency varies
- Postal mail too for special cases













#### **Effective Physician Referral Tactics**

- · Put fear behind you
- Introduce yourself to new physicians or providers in the area
- If you're the "newbie" meet your neighbors
- Be selective
- Go Above and Beyond
- · Create and implement a digital doctor referral strategy
- Make it easy on referrers KISS
- · Be visible and easily accessible online and on the phone
- Use a customer relationship management (CRM) tool
- Follow up with referring doctor
- · Meet the doctor
- Update promptly according their communication preferences
- · Designate a referral ambassador
- Become a Contact
- · Differs by specialty









- •If referring doctors are valuable to you, they are also valuable to your competitors
- •Competitors are probably aggressively targeting your best referrers
- •What is the cost of losing some "A" referrers?
- •Do not be complacent or overestimate loyalty!











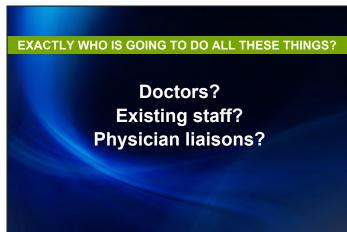












#### **PHYSICIAN LIAISONS**

- •AKA Physician Relations, Business Development, Marketing/PR Person, Practice Representative, etc.
- •Growing trend due to competition
- ·Hospitals, groups and solo practices use
- •Can outsource or hire
- •Sales is objective, not "creative marketing"
- •Consider what referrers are worth to you when budgeting



#### PHYSICIAN LIAISON BEST PRACTICES

- Naturally good at establishing relationships
- Always has a goal for each meeting
- Advances agenda
- •Goal driven with performance bonuses
- ·Self-starting
- •Does reconnaissance
- ·Not afraid to talk to doctors





# AVOID THESE COMMON MISTAKES

- Combine role with marketing tasks (they should be in the field!)
- "Do this in your spare time"
- Hire before you have defined expectations, goals, etc.
- Hire the wrong person (job description, role, experience, personality, sales skills)
- Offer a noncompetitive compensation package (remember, good ones are desirable for corporate America - and your competitors)
- Fail to manage them
- No database or system to measure results and activity
- Fail to train them





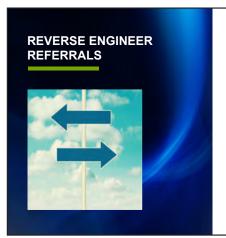












- •Ask "un-referred" patient for permission to speak with her primary care provider
- •Use an excuse to start a dialogue with the new doctor
- •Also, remember to "talk up" PCP to his/her patient





- •Subject should be helpful to referral value – not just promotional
- •Distribute your brochure as you start speaking for great impression and take-away recall
- •End with 1 minute promo about you
- •Invite them to use you as a resource

#### **NEW PRACTICES IN TOWN**

- · Arrange to meet, take to lunch
- Discuss their practice, problems they are having
- Be a resource, mentor
- · Introduce to key people
- Drop off your practice kit



#### **ADDITIONAL TACTICS**

- •Tell patients how WONDERFUL their referring doctor is! They will often go back to that provider and share your comment. Great reinforcement of that referral relationship!
- •Diagnose each practice to determine how the would like to communicate with you.
- •Identify WHO is actually making the referral Doctor, Staff, Referral Coordinator
- •Don't forget staff
- •Timeline follow up and reporting
- •Marketing Automation
- •Develop compelling content deploy through email campaign

#### **SELF EVALUATION**

#### **Building Physician and Patient Referral Relationships**

- **1.** T/F Is it appropriate to ask patients directly for referrals?
- **2.** T/F Is it important to develop a strong patient word of mouth referral network?
- **3.** Which of the following encourages Patient Ambassadors?
  - a. Offering Saturday hours
  - b. Thank you note and phone call
  - c. Online appointments
- **4.** What is not included in the Key Referral Development Program?
  - a. Prioritize "A" thru "C" categories of referrers based upon volume of referrals and opportunity
  - b. Communicate and reward referral sources according to category
  - c. Communicate with all referrals prospects the same way
- **5.** What is Reverse Engineering?
  - a. Having staff learn other job responsibilities
  - b. Ask "un-referred" patient for permission to speak with her primary care provider
  - c. Utilize your EMR to market to your patients

**Answer Key:** 1. T, 2. T, 3. B, 4. C, 5. B