



Insomnia and Sleep Hygiene Counseling for Family Physicians

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Educational Objectives

- The objective of this session is to gauge your knowledge, examine your attitudes, and test your practices of sleep hygiene teaching for your patients.
- We hope to improve your skills in examining patients' sleep habits and counseling them toward more effective sleep.
- Lastly, we hope these skills can be retained long past the immediate effect of our teaching session.

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Agenda

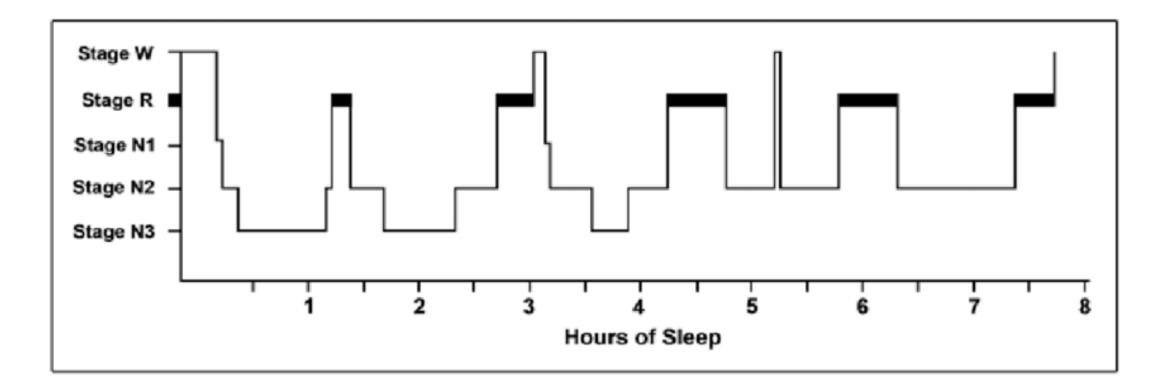
- Pre-assessment
- Background Insomnia
- Pathophysiology
- Evidence-based Insomnia Treatment
- Common Scenarios in Sleep Hygiene Counseling
- Q&A
- Post-assessment

Pre-Assessment

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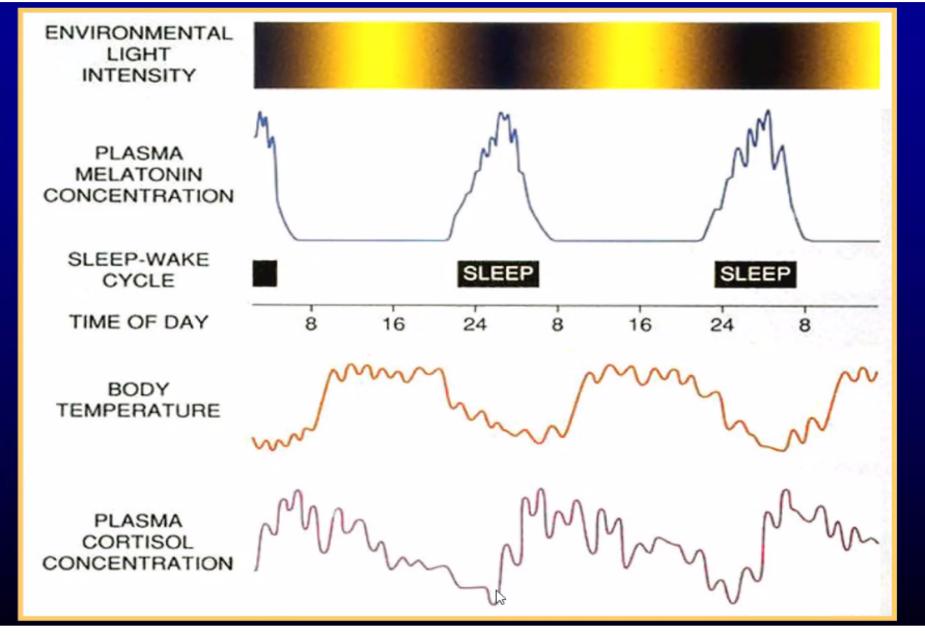
WHAT IS SLEEP?

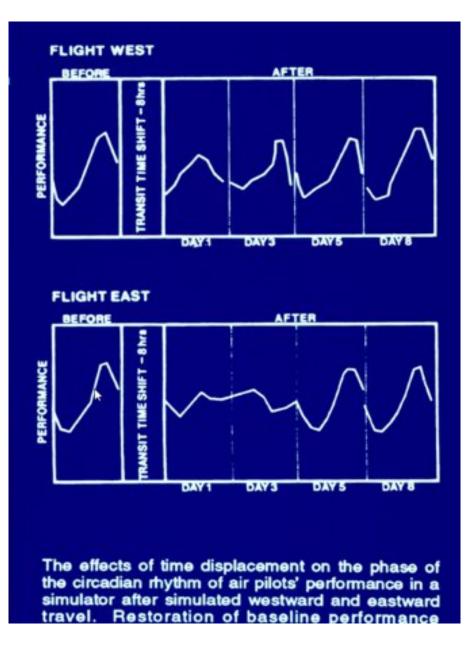


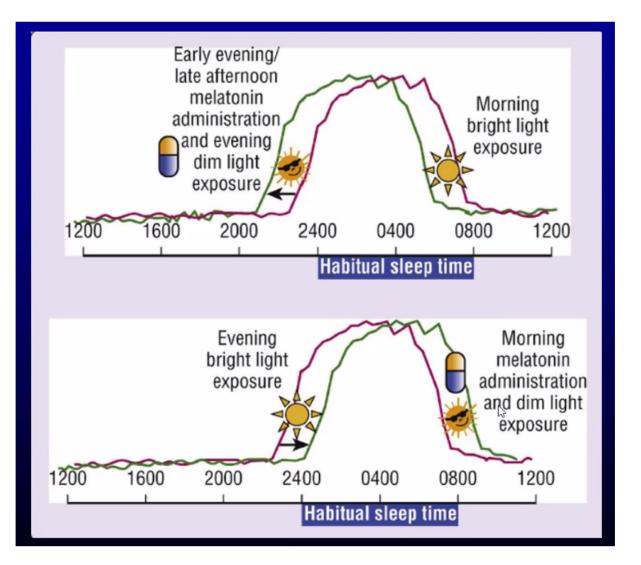
Hypnogram

Stages of Sleep









Comorbidities Associated With Shift Work

- Cardiovascular disease and stroke^{1,2}
- Gastrointestinal disturbances³
- Cancer^{4,5}
- Diabetes and metabolic syndrome⁶⁻⁸
- Depression⁹
- Sleep disorders, including shift work disorder^{10,11}
- Reproductive health issues¹²

Brown DL, et al. Am J Epidemiol. 2009;169(11):1370-1377. Knutsson A, et al. Lancet. 1986;2(8498):89-92. Pietroiusti A, et al. Occup Environ Med. 2006;63(11):773-775. Kubo T, et al. Am J Epidemiol. 2006;164:549-555. Megdal SP, et al. Eur J Cancer. 2005;41:2023-2032. Esquirol X, et al. Chronobiol Int. 2009;26(3):544-559

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	AASM Level of Recommendation	
Planned sleep schedules	Standard	
Timed light exposure	Guideline	
Timed melatonin administration	Guideline	
Hypnotics	Guideline	
Stimulants	Option	
Alerting agents	Guideline	



Caffeine Content of Various Beverages and OTC Preparations

Product	Serving Size	Caffeine (mg)	
Cola	8 oz	30 – 45	
Теа	8 oz	10 – 70	
Orange soda	8 oz	0 – 40	
Mountain Dew	8 oz	57	
Red Bull	330 ml	80	
Drip Coffee	7 oz	110 – 175	
Starbucks Grande	16 oz	320	
No-Doz	1 tablet	200	
Vivarin	1 tablet	200	
Excedrin Extra Strength	2 tablets	130	

enter for Science in the Public Interest. Web site. <u>http://www.cspinet.org/new/cafchart.htm#table_coffees</u>. ccessedsJuly(27, 2011.

Evidence-Based Insomnia Treatment

- Insomnia is defined as a persistent difficulty with sleep initiation, duration, consolidation, or quality that occurs despite adequate opportunity and circumstances for sleep, and results in some form of daytime impairment.
- Note: Variations in diagnostic criteria exist between the ICSD-3, DSM-5, and ICD-10 definitions, but the core features are the same.

Evidence-Based Insomnia Treatment

Risk Factors

- Female gender (esp. pregnancy, peri/post-menopause)
- Old age
- Solitude (divorced, single, widowed)
- Shift workers
- Unemployed or low socioeconomic status
- Comorbid medical and psychiatric disorders
- Substance abuse
- Genetic vulnerability

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Evidence-Based Insomnia Treatment

Evaluation

- Nighttime symptoms
- Daytime symptoms
- Sleep history
- Contributing medications
- Laboratory evaluation

Evidence-Based Insomnia

Treatment

- Nonpharmacologic
 - CBT
- Pharmacologic
 - BZD
 - Non-BZD
- Behavioral
 - Sleep Hygiene

Generic (Trade) Name	Dose Range (mg)	Onset	Half- life(hrs.)		
Benzodiazepines					
Estazolam (ProSom)	1-2	Rapid	10-24		
Flurazepam (Dalmane)	15-30	Rapid	47-100		
Quazepam (Doral)	7.5-15	Rapid	39-73		
Triazolam (Halcion)	0.125 - 0.25	Rapid	1.5-5.5		
Temazepam (Restoril)	7.5-30	Slow	3.5-18.4		
Nonbenzodiazepine BZ Receptor Agonists					
Zolpidem (Ambien)	5-10	Rapid	2.5-2.6		
Zolpidem ER (AmbienCR)	6.25-12.5	Rapid	2.8		
Zolpidem sublingual (Edluar)		Very Rapid	2.5-2.6		
Zolpidem sublingual (Intermezzo)	1.75(female) 3.5(male)	Very Rapid	2.5-2.6		
Zolpidem spray (Zolpimist)	5mg/spray	Very Rapid	2.5-2.6		
Eszopiclone (Lunesta)	1-3	Rapid	6		
Zaleplon (Sonata)	5-20	Rapid	1		
Melatonin Receptor Agonist					
Ramelteon (Rozerem)	8	Rapid	2-5		
Antidepressant					
Doxepin (Silenor)	3-6	Moder ate	15		
Orexin Receptor Dual Agonist					
Suvorexant (Belsomra)	5-20	Rapid	12		



SLEEP HYGIENE

Environmental + personal habits that promote quality sleep

THINGS TO DO...



- Get out of bed at the same time
- Bright light during the day
- Exercise in the morning or afternoon
- Set aside a "worry" time
- Establish a comfortable sleep environment •Dark •Cold
 - •Quiet
- Do something relaxing prior to bedtime



COMMON Scenarios

- Alcohol
- Caffeine, nicotine, and other stimulants
- Exposure to bright light during the night
- Rigorous exercise within 3 hours of bedtime
- Heavy meals or drinking within 3 hours of bedtime
- Using your bed for things other than sleep (or sex)
- Napping, unless a shift worker
- Watching the clock
- Trying to sleep
- Noise

Resources



HOME > DISEASES & CONDITIONS > INADEQUATE SLEEP HYGIENE

INADEQUATE SLEEP HYGIENE

Our Doctors

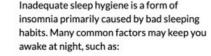
Tests & Treatments

Programs & Services

Frequently Asked Questions

Inadequate Sleep Hygiene

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- Background noise
- Temperature extremes
- · Uncomfortable bedroom
- · Excessive napping
- · Excessive time in bed
- Irregular bedtimes
- Sedentary lifestyle
- -----



5 Ways to Get a Good Night's Rest

If you are having trouble falling asleep and/or staying asleep, there are many ways to help you have a good night's rest:

- 1. Your bedroom should be dark, quiet and comfortable. You should also reserve the bedroom for sleeping, not for watching TV or doing work.
- 2. Go to bed and wake up at the same time every day, even on the weekends.
- 3. Avoid caffeine after lunchtime and avoid alcohol, eating and exercising a few hours before bedtime. These might lead to disruptions of your sleep.
- 4. Don't take naps, unless you are a shift worker or narcoleptic.
- 5. Don't sacrifice your sleep; make it a priority so that your body gets the rest it needs.

Make an Appointment

Call 1-800-JEFF-NOW (1-800-533-3669) to make an appointment with a Jefferson Health sleep specialist.

SCHEDULE AN APPOINTMENT ONLINE



Post-Assessment

https://forms.gle/RaKDya5nvWv7Fsan8

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Thank you!

Questions?



