# SAFE RESIDENCY

SLEEP ALERTNESS AND FATIGUE EDUCATION IN RESIDENCY

## **American Academy of Sleep Medicine**

### **Recognize The Warning Signs of Sleepiness**

- 1. Falling asleep in conferences or on rounds
- 2. Feeling restless and irritable with staff, colleagues, family, and friends
- 3. Having to check your work repeatedly
- 4. Having difficulty focusing on the care of your patients
- 5. Feeling like you really just don't care

## Napping

- **Pros:** Temporarily improve alertness
- *Types:* Preventative (pre-call); Operational (on the job)
- *Length:* <u>Short naps</u>: no longer than 30 minutes to avoid the grogginess ("sleep inertia") that occurs when you're awakened from deep sleep <u>Long naps</u>: 2 hours (range 30 to 180 minutes)
- *Timing:* If possible, take advantage of circadian "windows of opportunity" (2-5 am and 2-5 pm); but if not, nap whenever you can!
- *Cons:* Sleep inertia; allow adequate recovery time (15-30 minutes)

Bottom line: Naps take the edge off, but do not replace, adequate sleep

## Healthy Sleep Habits

- 1. Go to bed and get up at about the same time every day
- 2. Develop a pre-sleep routine
- 3. Use relaxation to help you fall asleep
- 4. Protect your sleep time; enlist your family and friends!
- **5.** Sleeping environment:
  - a. Cooler temperature
  - **b.** Dark (eye shades, room darkening shades)
  - c. Quiet (unplug phone, turn off pager, use ear plugs, white noise machine)
- 6. Avoid going to bed hungry, but no heavy meals within 3 hours of sleep
- 7. Get regular exercise but avoid heavy exercise within 3 hours of sleep

## Drugs

- **1.** *Melatonin:* Little data in residents
- **2.** *Hypnotics:* May be helpful in *specific* situations (eg, persistent insomnia)
- **3.** *AVOID:* Using stimulants (methylphenidate, dextroamphetamine, modafinil) to stay awake
- **4.** *AVOID:* Using alcohol to help you fall asleep; it induces sleep onset but disrupts sleep later on
- **5.** *Caffeine:* **1.** *Strategic* consumption is key
  - 2. Effects within 15 30 minutes; half-life 3 to 7 hours
  - **3.** Use for temporary relief of sleepiness
  - **4.** Cons: **a.** Disrupts subsequent sleep (more arousals)
    - **b.** Tolerance may develop
    - c. Diuretic effects

#### **Alertness & Night Float Strategies**

- 1. Protect your sleep & nap before work
- 2. Consider "splitting" sleep into two 4 hour periods
- 3. Have as much exposure to bright light as possible when you need to be alert
- 4. Avoid light exposure in the morning after night shift
- 5. Know your own vulnerability to sleep loss and learn what works for you

## **Recognize Signs of DWD (Driving While Drowsy)**

- **1.** Trouble focusing on the road
- 2. Difficulty keeping your eyes open
- **3.** Nodding
- 5. Yawning repeatedly
- 6. Drifting from your lane, missing signs or exits
- 7. Not remembering driving the last few miles
- 8. Closing your eyes at stoplights

## **Risk Factors for Drowsy Driving**

- 1. Taking any sedating medications
- 2. Drinking even small amounts of alcohol
- **3.** Having a sleep disorder (sleep apnea)
- 4. Driving long distances without breaks
- 5. Driving alone or on a boring road

#### **Drive Smart; Drive Safe**

- **1.** AVOID driving if drowsy
- 2. If you are really sleepy, get a ride home, take a taxi, or use public transportation
- 3. Take a 20 minute nap and/or drink a cup of coffee before going home post-call
- 4. Stop driving if you notice the warning signs of sleepiness
- 5. Pull off the road at a safe place, take a short nap

## **Drowsy Driving: What Does Not Work**

- **1.** Turning up the radio
- 2. Opening the car window
- 3. Chewing gum
- 4. Blowing cold air (water) on your face
- 5. Slapping (pinching) yourself hard
- 6. Promising yourself a reward for staying awake

#### It takes only a 4 second lapse in attention to have a drowsy driving crash

## In Summary...

- **1.** Fatigue is an impairment like alcohol or drugs.
- 2. Drowsiness, sleepiness, and fatigue cannot be eliminated in residency, but managed.
- **3.** Recognition of sleepiness and fatigue and use of alertness management strategies are simple ways to help combat sleepiness in residency.
- 4. When sleepiness interferes with your performance or health, talk to your supervisors and program director.

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