

### T or F?

- Everyone dreams every night.
- Opening a window or turning up the music is a good way to fight sleep if you're driving tired.
- More than 6.5 hrs. but less than 9 hrs. is a healthy amount of sleep
- A adolescent is physiologically unlikely to be sleepy before 10:30





According to the Presidential Commission on the Challenger Accident:

"Time pressure . . . Increased the potential for sleep loss and judgement errors," and that working "excessive hours, while admirable, raises serious questions when it jeopardizes performance, particularly when critical management decisions are at stake."

#### You and 22 million fellow Americans

- Non-traditional work schedules can pose additional challenges
  - To relationships
  - To daily organizational management
  - To sense of self-efficacy





#### What is "Enough" Sleep?

- More than 40 % of adults have sleep complaints
- Enough sleep is the amount of sleep we require in order not to be sleepy during the day!

















#### With adequate sleep

- Problem solving skills improve 2-fold
- Empathy increases
- Energy increases











Sleep: Stages	
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(a) Relaxed, awake	(d) Stage 3 sleep
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(b) Stage 1 sleep	(e) Stage 4 sleep
Sleep spindle Kcomplex-	of the section of the
(c) Stage 2 sleep	(f) REM, or "paradoxical" sleep















### What are the body's Biological Rhythms?

- Ultradian <24 hrs.
  - 90-120 min cycles
  - REM/NREM sleep cycle, productivity cycles
- *Circadian* = 24 hrs.
  - **sleep-waking rhythm**, body temperature, sensitivity to pain or alcohol, reaction time, levels of hormones in the blood .
- Infradian >24 hrs.
  - Lunar cycle, the 5-7 day week
  - Menstrual cycle

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#### Strategies: Shift rotation

- Schedule rotation to move clockwise
  - Day Evening Night Morning
  - 2-3 day rotations preferable to 5-7
  - Best rotations improve productivity, reduce illness, reduce accidents

#### Strategies: Napping

- 90 minute nap if you have no breaks in your nighttime shift
- 15 minute nap within a shift can restore alertness
- 2 hour "nap" accommodates sleep debt
  - Probably does not leave you "rested"

#### Strategies: Driving home

- Consider a 20 minute nap before leaving work
- Wear dark, wrap-around glasses
- Come straight home; No errands



#### Strategies: Melatonin



- Most effective in combination with good sleep hygiene
  - Eliminate TV/computer screens
  - Reduce light exposure

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#### Useful practices

- Progressive Relaxation
- Breath meditation
- Visualization
- Gratitude meditation



## Thank you!

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#### Web Links

- Northwestern University, Center for Sleep & Circadian Biology,
- <u>About Circadian Rhythms</u> National Sleep Foundation,
- Strategies for Shift Workers
- National Sleep Foundation,
- <u>Sleep and the Traveler</u>
- <u>National Institute of Mental Health, How</u> <u>Biological Clocks Work</u>

• <u>Sleepnet.com</u> Connie Schrader, Magistrates Conference,