SLEEP HYGIENE AND MINDFULNESS

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OBJECTIVES

**Sleep hygiene:**
1. List at least two areas of functioning that sleep can impact.
2. Describe 3 tips for improving sleep hygiene.

**Mindfulness:**
1. Name four benefits of mindfulness.
2. Describe the three components of mindfulness.
SLEEP & SLEEP HYGIENE
SLEEP

Sleep Satisfaction, who is satisfied with their sleep?

Impact of Sleep:

- physical health
- mental health and well-being
- cognitive functions (e.g., memory, learning, creativity)
- athletic training, performance, recovery, and risk for injuries

Theory
Adults need 8 hours of sleep?

**Myth**

**Facts:**

1. Individual needs vary
2. On average people need < 8 hours
3. Sleep quality is just as, or even more important, than sleep quantity.
Good sleepers begin to experience insomnia if they try to sleep longer?

Fact

Facts:

1. Spending more time in bed than you are actually able to sleep might make your sleep problem worse.

2. Brain is learning that bed does not equal sleep.
If you don’t feel refreshed when you wake up, than you need more sleep?

**Myth**

**Facts:**

It’s normal to feel sleepy when first wake up.
- “sleep inertia” typically last 30-60 minutes.
- can last longer for “night owls”.
Good sleep only occurs if you do not wake up in the middle of the night?

**Myth**

**Facts:**

Normal sleep includes brief awakenings.

- we typically don’t remember them.
<table>
<thead>
<tr>
<th>Stage</th>
<th>Duration</th>
<th>What happens</th>
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<tbody>
<tr>
<td>Stage 1</td>
<td>1 – 7 minutes</td>
<td>Start falling asleep, brain slows down, and movements decrease</td>
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| Stage 2                      | 10 – 25 minutes | ↓: body temp, breathing rate, heart rate, overall brain activity  
↑: muscle relaxation  
Eye movements stop  
Short bursts of brain activity |
| Stage 3 (Deep sleep)*        | 20 – 40 minutes | ↓: muscle tone, breathing rate, and heart rate  
Brain- delta (slow wave sleep) |
| Rapid Eye Movement (REM)     | 10 – 60 minutes | Typically starts 90 minutes after falling asleep  
↑ Brain activity (similar to being awake)  
Muscle paralysis (atonia)- except for eyes and breathing  
Dreaming most likely to occur (vivid dreams) |
SLEEP STAGES

A TYPICAL 8 HOUR SLEEP CYCLE

- awake
- stage 1
- stage 2
- stage 3
- stage 4

REM stages occur throughout the cycle.
SLEEP HYGIENE AND STIMULUS CONTROL

What is stimulus control?

-the extent to which a behavior (e.g., sleep) is influenced by different stimulus conditions (e.g., environment- bedroom).

Repeated experiences of lying in bed awake strengthens the brains association between lying in bed and being awake.
SLEEP HYGIENE AND STIMULUS CONTROL

Stimulus control strategies:

1. Go to bed when you are sleepy, but not before.

2. If you can’t sleep (after approx. 15-20 minutes), get out of bed!

3. Use the bed only for sleep (and sex).
   - No reading, eating, watching tv, worrying or planning

4. Stimulus control is difficult. You may feel worse at first. Remember: your brain didn’t learn that bed = wakefulness in a day. Breaking that association won’t happen in a day, either.
Stimulus control is difficult!

• You may feel worse at first.

• *Keep in mind*: your brain didn’t learn that bed = wakefulness in a day.
  – Breaking that association won’t happen in a day, either.
Sleep Hygiene tips:

**Food and Drink**

1. Limit caffeine, consume before noon.
2. Limit alcohol, don’t consume within 3 hrs of bedtime.
3. Don’t eat a heavy meal close to bedtime. Digestion is an active process and can disrupt sleep. Light snacks are okay.
Routine

4. Consistency: Go to bed at the same time every night and wake up at the same time every morning.

5. Create a “buffer zone.” For 30-60 minutes prior to bedtime, do activities that are calming for you. Taking time to slow your body and mind down will prepare you for a good night’s rest.
Environment

6. Keep your bedroom dark (eye masks), quiet (ear plugs), and cool. Our body temperature naturally drops at nighttime, and maintaining a cool room (around 60-68 degrees F) promotes restful sleep.

7. Have a comfortable mattress, pillow, and bedding.

8. Turn the clock around. “Clock watching” increases sleep-related anxiety which makes it even more difficult to fall asleep.

Behaviors

11. Avoid or limit daytime napping. Napping, especially later in the day or early evening, interferes with your ability to fall asleep.

12. Regular exercise. Exercise can improve sleep quality; however, exercising too close to bedtime (within 1-2 hours of going to bed) can make it more difficult to fall asleep.

13. Manage stress before going to bed. Stress and worries can make it difficult to fall asleep. (e.g., relaxation, mindfulness/meditation).
MINDFULNESS
What is mindfulness?

➢ A way of living that focuses on the present moment.

➢ Can be a form of meditation where we sit and practice for a specific amount of time (*formal practice*).

➢ We can also incorporate mindfulness into our daily activities (*informal practice*).
Benefits of mindfulness:

➢ Improve pain

➢ Improve physical and mental health

➢ Decrease stress

➢ Improve sleep
MINDFULNESS

Three main components:

1. Paying purposeful attention

2. to the present moment

3. without judgment (aka, with acceptance).
Paying purposeful attention

- Unpleasant physical sensations suck you in, making it difficult to pay attention to anything else.

- Example: 1 tsp of salt in 1 tsp of water tastes like salt; 1 tsp salt in a gallon of water tastes like water
  - When it’s diluted, it’s not gone; it’s just not as overpowering
  - Goal of mindfulness is not to ignore unpleasant sensations/experiences, but to take a bird’s eye view and open our awareness up to all our other experiences and sensations. This allows us to put unpleasant sensations/experiences on the back burner and to choose what we put on the front burners.
MINDFULNESS

To the present moment

“We may never quite be where we actually are...” – Jon Kabat-Zinn

– The opposite of mindfulness is mindlessness, or autopilot. This is what happens when our bodies and our minds are in different places.

– Example #1: Driving/riding your usual route to work and realizing you don’t remember the drive.

– Where do we go on autopilot?
  ▪ Past (regrets, ruminations, memories)
  ▪ Future (worries, plans)
  ▪ The problem with this is that spending all our time in the past or future is not healthy for our bodies or our minds.
MINDFULNESS

To the present moment

– Example:
  ▪ You go into your first training session and your trainer asks you to perform a certain exercise
    ❖ Past: “Here we go again. Last time I did this exercise, I was out of commission for days.”
    ❖ Future: “What if I get injured?” “What if I can’t compete?”
  ▪ How do you think that training session is going to go?
Without judgement (aka acceptance)

- Our minds are constantly placing value on/judging our experiences.
- This is our mind’s way of protecting us—being able to quickly interpret something as “good” or “bad” helps us make snap decisions in stressful or dangerous situations.
- The problem is that these judgments are not always helpful—especially related to our mental or physical sensations.
- Mindfulness teaches us to simply observe our experiences without labeling them as “good” or “bad.”
Goal of Mindfulness

The goal of mindfulness is not “emptying the mind”

- Our thoughts are never-ending
- Mindfulness does not mean not thinking; it means having awareness of where your mind is going and gently bringing it back to the present moment
MINDFULNESS RESOURCES

Readings:

Local resources:

- [www.insightchicago.org](http://www.insightchicago.org) local sanghas, classes, very friendly and welcoming.
- [www.theinsightcenter.com](http://www.theinsightcenter.com) Mindfulness Based Stress Reduction Course in Chicago

Smart phone apps for meditation:

- Insight Timer app (search by teacher or topic). Good teachers: Tara Brach, Vidyamala Burch, Sharon Salzberg, Hugh Byrne, Gil Fronsdal, Jack Kornfield. Free but variable quality. The teachers listed are high quality and very knowledgeable.


- Headspace and Calm free and pay versions. They get mixed reviews. They will want you to upgrade and pay a fee. Some people feel it is worth the price. Others not so much.
HEALTHY MINDS APP
Dr. Caryn Feldman provided content and selected resources for the mindfulness component of this lecture.

Dr. Claire Pedersen provided content for the sleep portion of this lecture.
Cook JD, Charast J. Sleep performance in professional athletes. Current Sleep Medicine Reports. 2023;9:56-81.

Cameron AFM, Perera N, Fulcher M. Professional athletes have poorer sleep quality and sleep hygiene compared with an age-matched cohort. Clin J Sport Med. 2021;31:488-493.


Sleep Foundation:

https://www.sleepfoundation.org/sleep-hygiene

Healthline:

https://www.healthline.com/health/sleep-hygiene
REFERENCES


