

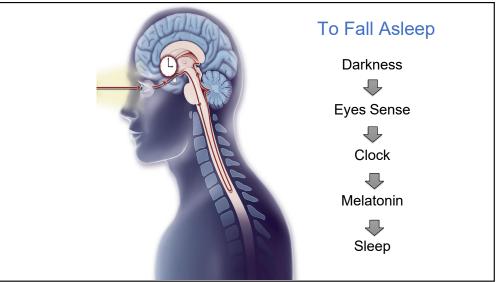


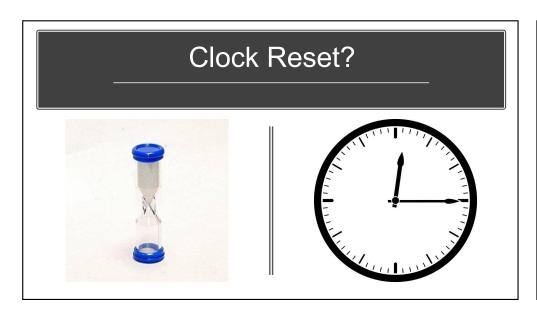


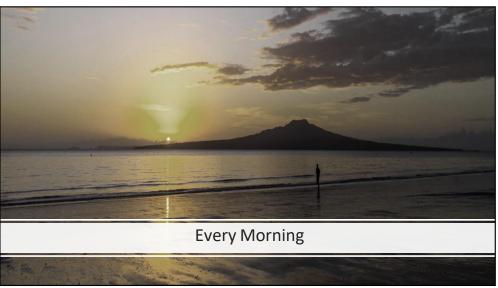
[Source: National Sleep

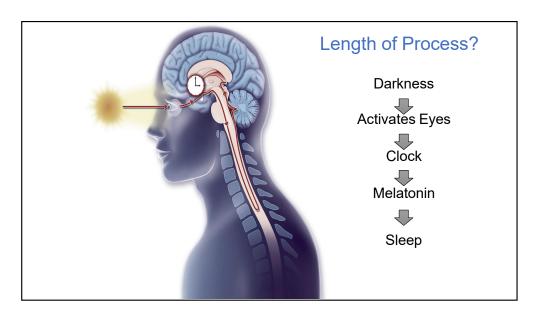




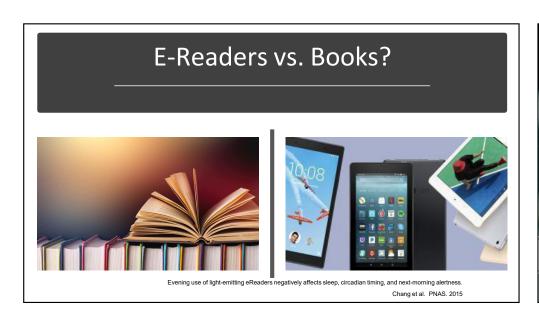






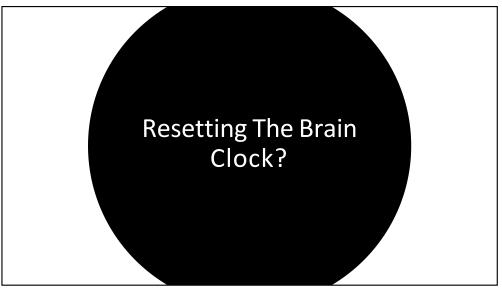






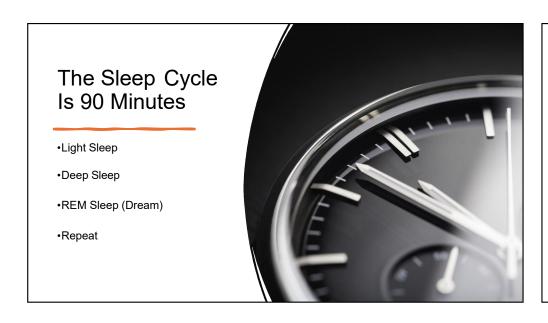




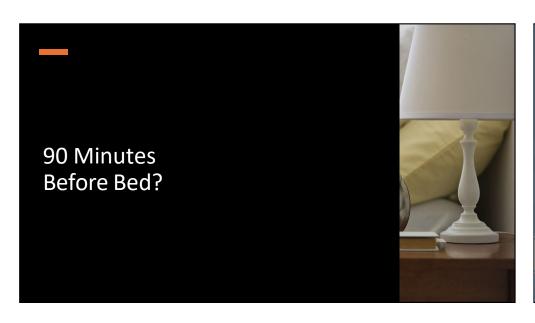




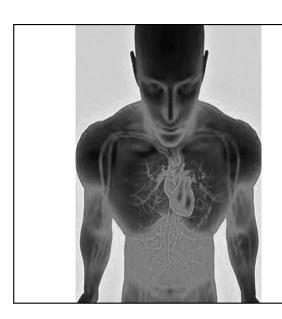






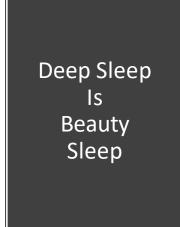


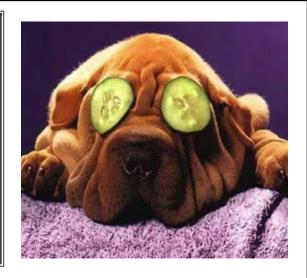


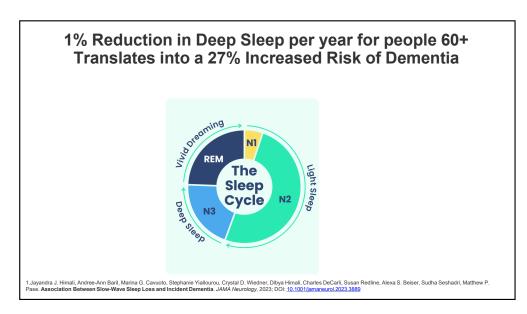


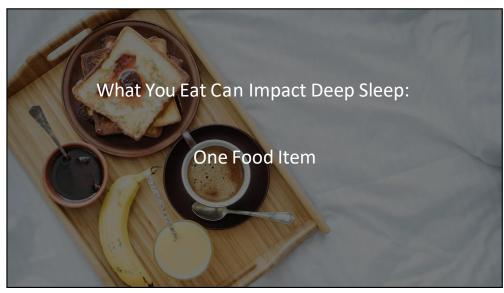
## What Is Happening In Deep Sleep?

- Immune System Repair
- Blood Supply to Muscles Increases
- Tissue Growth and Repair Occurs
- Energy is Restored
- Hormones are Released, such as: Growth hormone











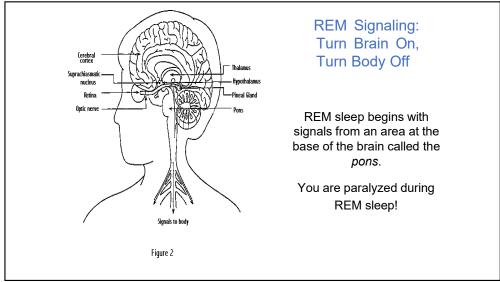
# What You Eat Can Influence How You Sleep (Just One Day)

- Eating less fiber is associated with less restorative, and more disrupted sleep.
- Greater fiber intake predicted more time spent in the stage of deep sleep.
- 25 to 35 grams a day.



1.St-Onge MP, Roberts A, Shechter A, Choudhury AR. Fiber and saturated fat are associated with sleep arousals and slow wave sleep. J Clin Sleep Med, 2016;12(1):19%u20132 DOI: 10.5664/jcsm.5384







#### **Napping**

Less Than 30 Minutes Or a Full 90 Minutes Is Best. WHY?

- LIGHT SLEEP
- DEEP SLEEP
- REM SLEEP (DREAM)
- REPEAT



Use The Sleep Cycle To Get Back To Sleep In The Middle of The Night

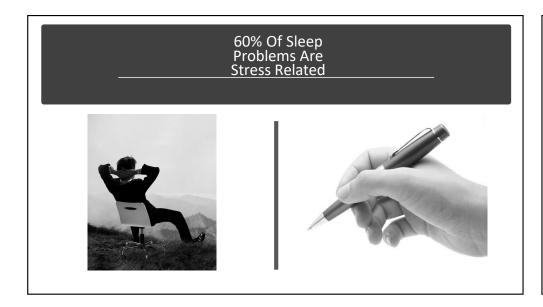
Light Sleep

Entire Cycle takes about 90 minutes

Deep Sleep

REM Sleep (Dream)

Repeat





#### Practical Before Bed Tips

- Light stretching
- Boring reading
- Soft relaxing music
- Breathing exercises
- · Mindfulness exercises
- Sleep diary

Should You Lie In Bed When You Can't Sleep?













### **Tart Cherries and Melatonin**

- Tart cherries (and tart cherry juice) have been shown to improve sleep quality and reduce symptoms of insomnia.
- Contain melatonin.
- A glass of tart cherry juice about an hour or two before bed.



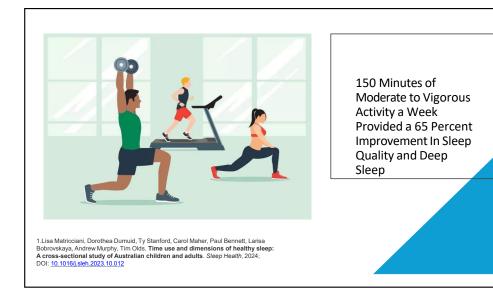
#### Fruit and Melatonin

- Pineapple, oranges, and bananas increase melatonin production about two hours after eating.
- Kiwis: After four weeks of eating two kiwis an hour before bed, participants were able to fall asleep faster, sleep for longer, and experience better sleep quality.

1.Benjamin D. Fletcher, Jillian J. Haszard, Margreet C. M. Vissers, Tamlin S. Conner. Smartphone survey data reveals the timecourse of changes in mood outcomes following vitamin C or kiwifruit intervention in adults with low vitamin C. British Journal of Whittion, 2023;



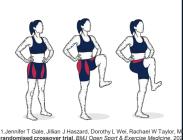
What Improved Sleep Quality
By 65% and Made People Less
Tired During The Day?



Exercise Before Bed?
Sitting Before Bed?







#### The exercise intervention involved three exercises:

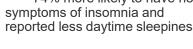
- · Chair squats
- · Calf raises
- · Standing knee raises with straight leg hip extensions.
- · Slept 30 Minutes Longer
- Similar effect if you.....

redith C Peddie. Evening regular activity breaks extend subsequent free-living sleep time in healthy adults: a ; 10 (3): e001774 DOI: 10.1136/bmjsem-2023-001774



#### Optimistic People Sleep Better, Longer,

- Higher optimism score correlated with 78% higher odds of reporting very good sleep quality.
- 74% more likely to have no symptoms of insomnia and réported less daytime sleepiness.



Why?

1.Rosalba Hernandez, Thanh-Huven T, Vu, Kiarri N, Kershaw, Julia K, Boehm, Laura D, Kubzansky, Mercedes Carnethon, Claudia Trudel-Fitzgerald, Kristen L, Knutson, Laura A, Colangelo, Kiang Liu, The Association of Optimism with Sleep Duration and Quality: Findings from the Coronary Artery Risk and Development in Young Adults (CARDIA) Study. Behavioral Medicine, 2019; DOI: 10.1080/08964289.2019.1575179



