# Get The Best Night's Sleep (Especially In These Times)

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## Morning Person? Genetics?

Vallat, R., Berry, S.E., Tsereteli, N. et al. How people wake up is associated with previous night's sleep together with physical activity and food intake. *Nat Commun* **13**, 7116 (2022). https://doi.org/10.1038/s41467-022-34503-2

## Morning Person? Genetics?

- 1) get substantial exercise the day before
- 2) sleep longer and later than you typically do
- 3) eat a low sugar breakfast rich in complex carbohydrates, with a moderate amount of protein
- 4) pay attention to your body's glucose response after eating.

How Are You Sleeping?



Or Like This?



## Risk Factors For???

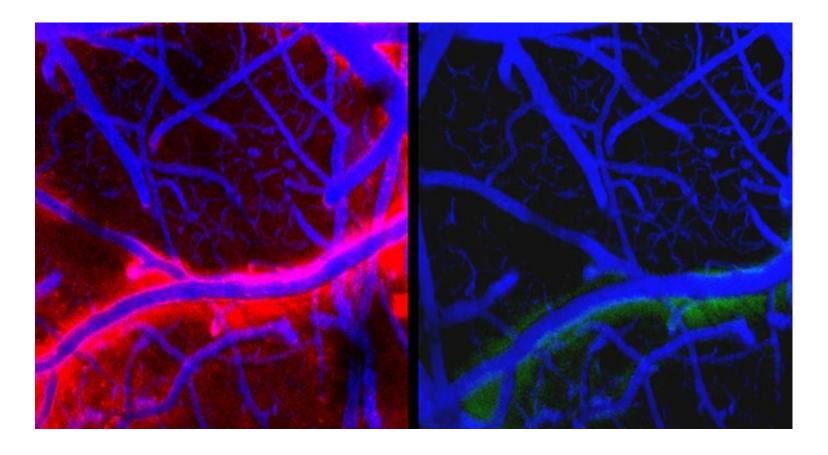
# Seriousness Of Sleep

- Diabetes
- Depression
- Heart disease
- Hypertension and obesity
- Cancer
- Dementia

# Take Out The Garbage?



#### **Brain Wash!**



While you are sleeping your brain shrinks by 60% and squeezes toxins out of your brain cells and gets a wash!

Sleep Drives Metabolite Clearance from the Adult Brain

# Over The Counter Sleep Aids





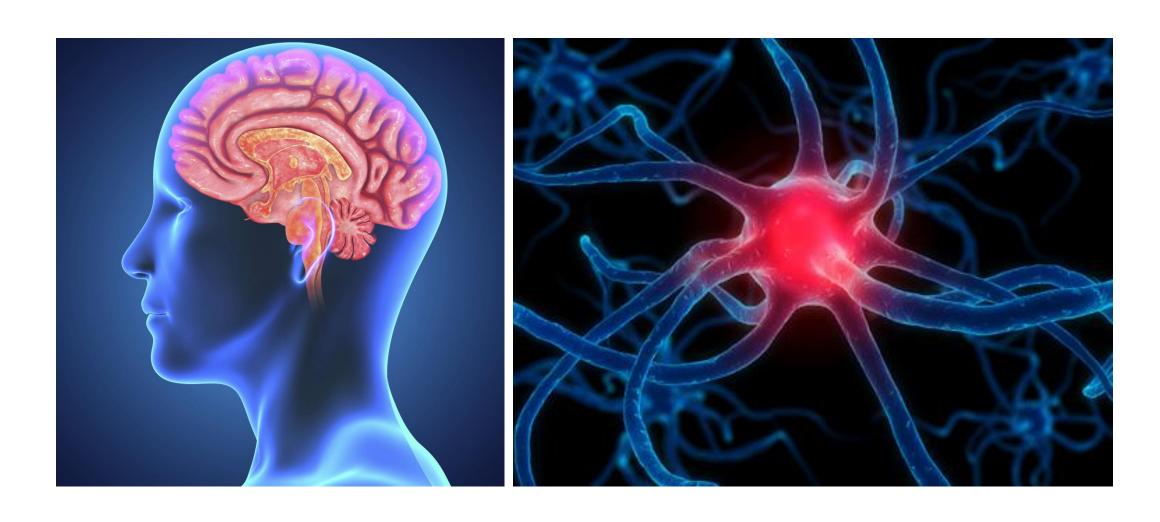
### Do Not Feel Bad

• Nearly 60 percent of adults report having sleep problems

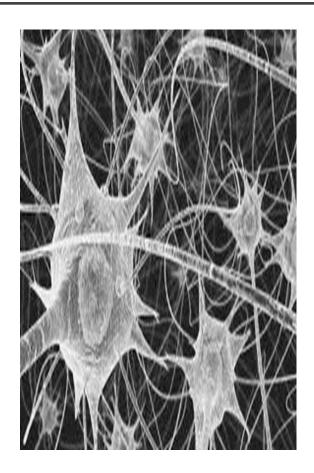
 Americans filled 60 million prescriptions for sleeping pills last year

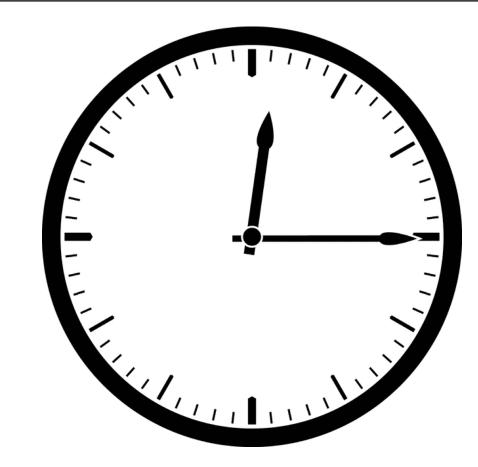


## The Secret Is In Your Brain



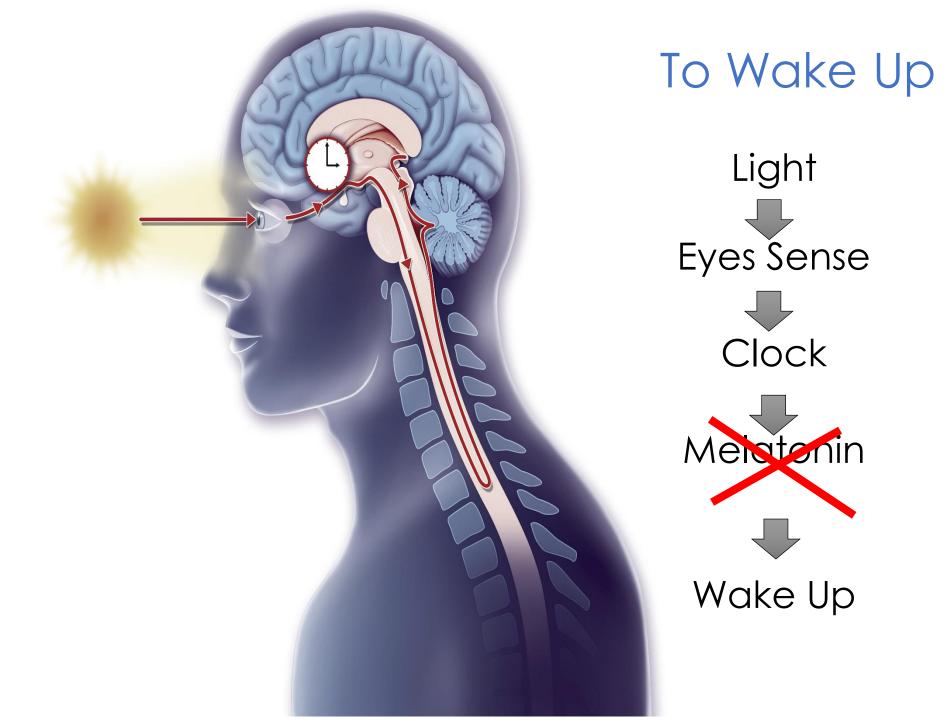
# Your Clock?





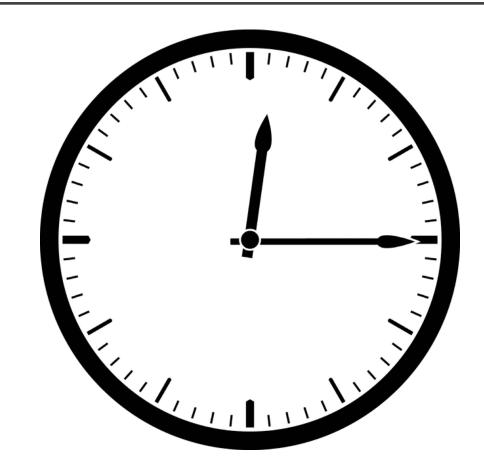
Circadian Clock/Rhythm

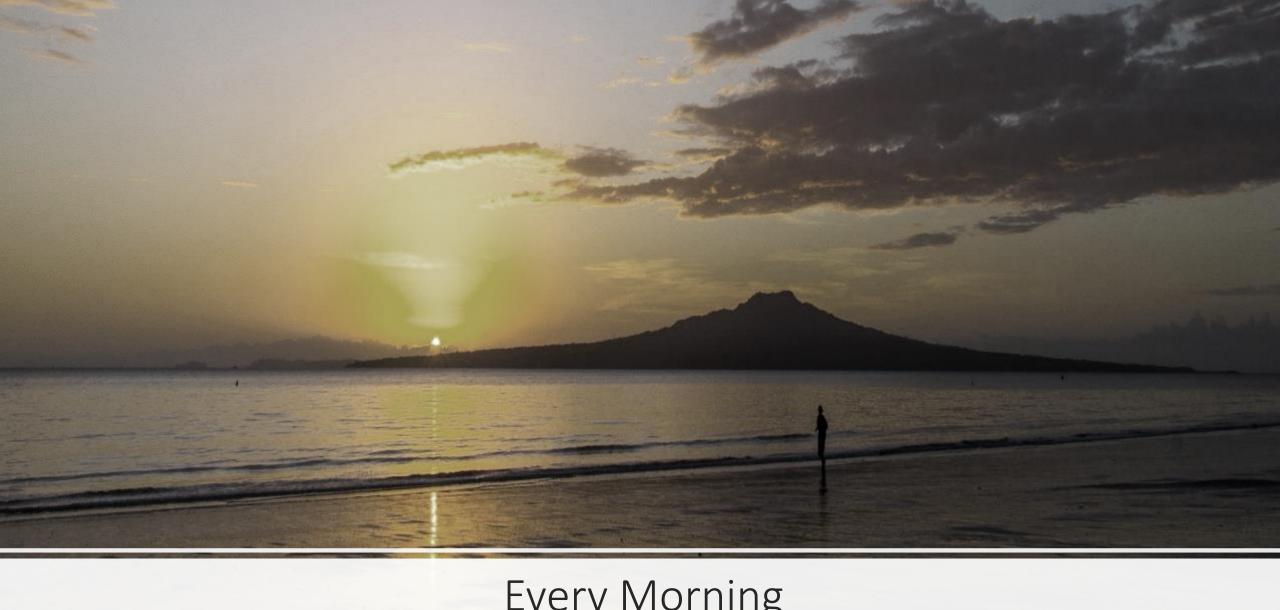




# Clock Reset?



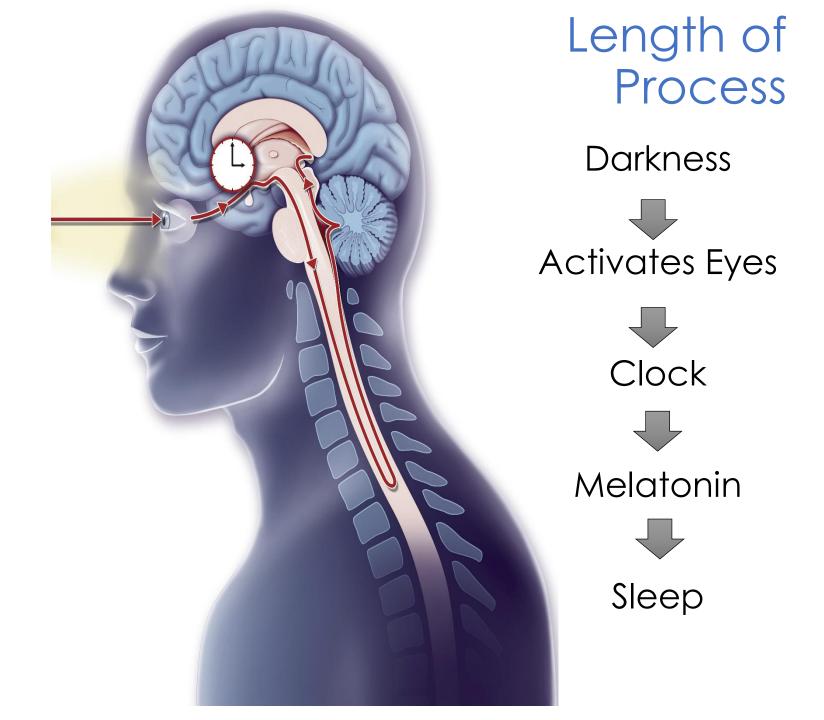




Every Morning



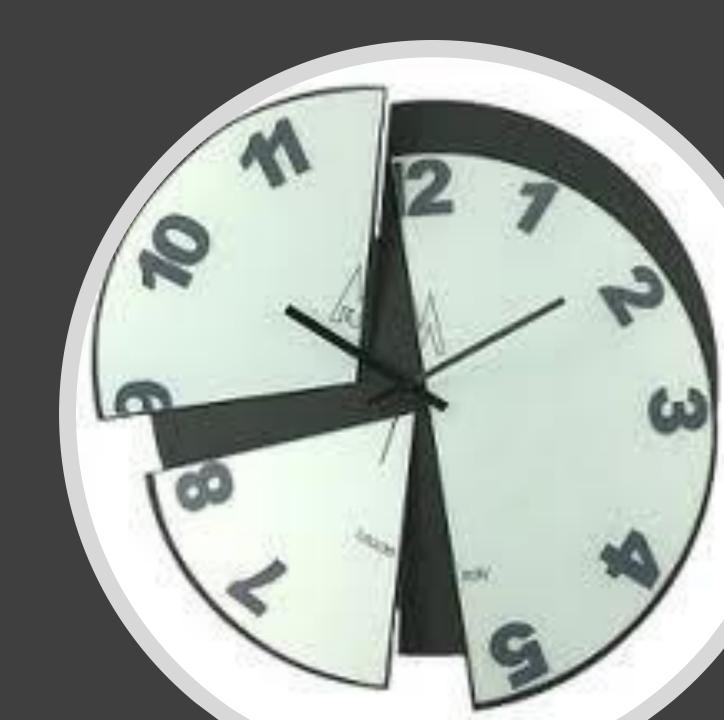
When Home During The Day:



# If You are Doing This



Does It Matter If Your Brain Clock Goes Out Of Sync?



# Daylights Savings Does It Matter?



- More frequent traffic accidents and workplace injuries when we spring forward and lose an hour of sleep.
- Heart issues? Stroke?
- Judge rulings?



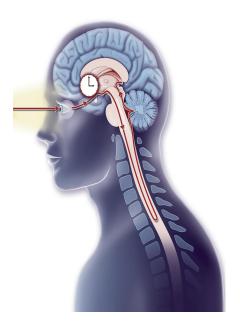
The Master Clock

### Schedule those **Zeitgebers**:

- Set a wake-up time.
- Morning walk.
- Shower and get dressed even if not leaving the house.
- Eat meals at the same time.
- Block off consistent time to exercise and work.
- **Bedtime**: Pick a time to turn off lights and go to bed.

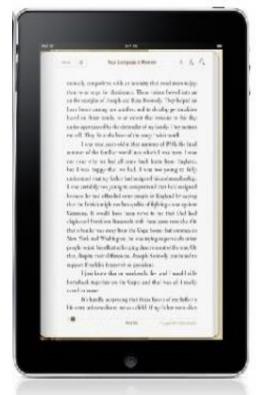
 Don't have to do all of these but just experiment with some....





#### E-Readers vs. Books?





## The Blue Light

Darkness



Activates Brain Clock













# Do You Sleep In The Dark?

Pete Sampras



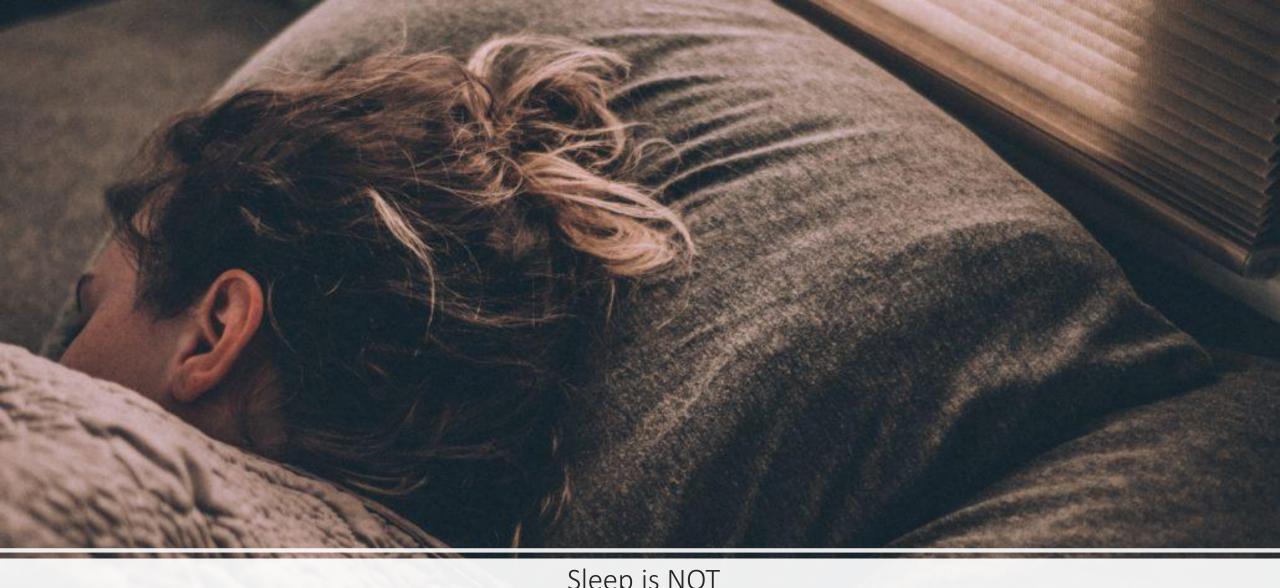


Simple Solution Night Lights?

# Resetting The Brain Clock?







Sleep is NOT Just Rest!

### The Sleep Cycle Is

Light Sleep

Entire Cycle takes about 90 minutes

Deep Sleep

REM Sleep (Dream)

Repeat

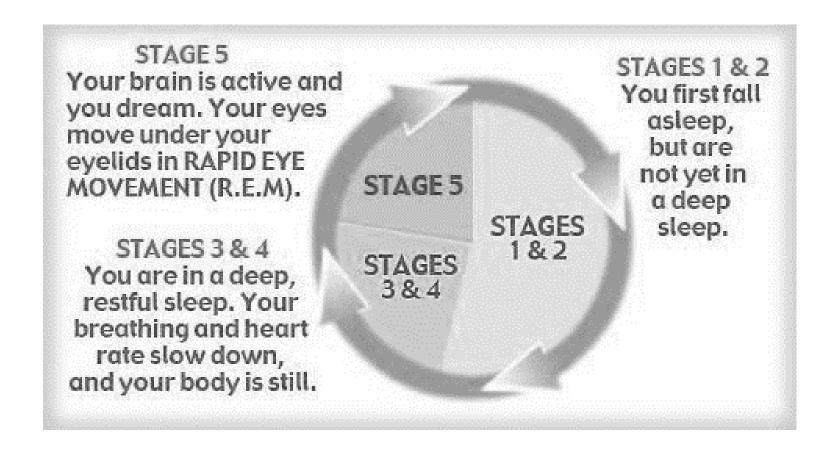
## You First Enter Light Sleep

Lasts About 20 to 30 Minutes

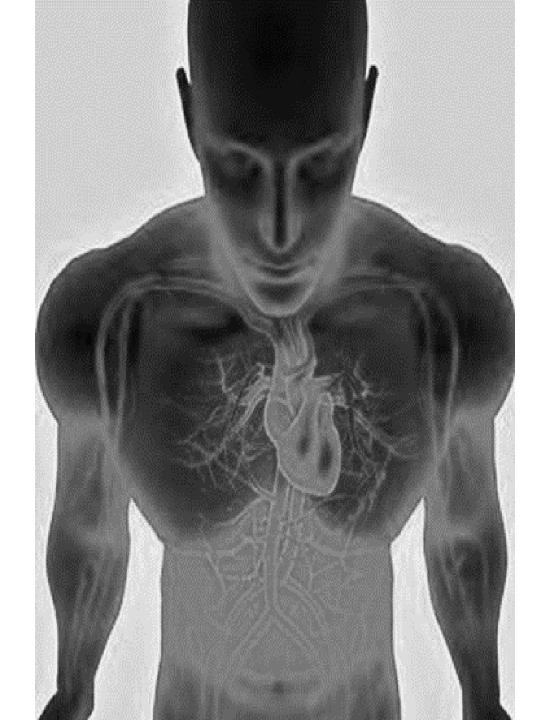
# Is It Easier To Fall Asleep In A Cooler Room Or A Warmer Room? What else?



#### Deep Sleep



Have You Ever Been Woken Up And You Don't Know Where You Are?



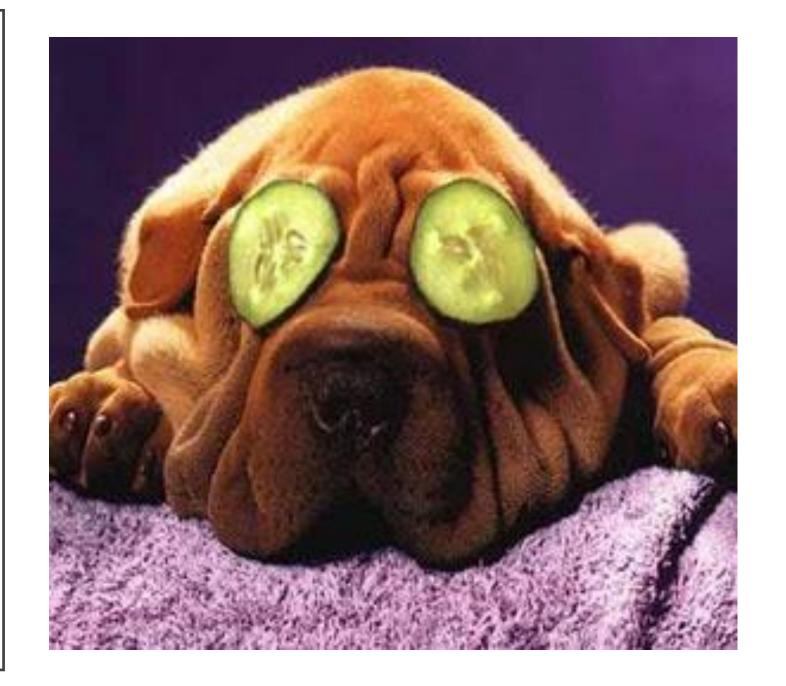
### What Is Happening In Deep Sleep?

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

Deep Sleep Is

Beauty

Sleep





REM Signaling: Turn Brain On, Turn Body Off

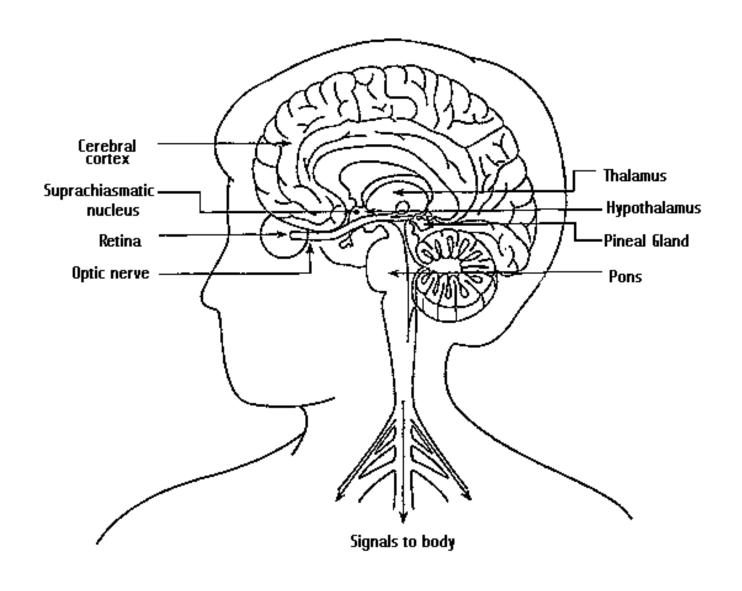


Figure 2

## What Happens If You Aren't Paralyzed During REM State?

You Act Out Your Dreams: REM Sleep Behavior Disorder



#### Important Point:

You Return to Light Sleep Throughout The Night

What Does this Mean?



#### The Sleep Cycle Is

Light Sleep

Entire Cycle takes about 90 minutes

Deep Sleep

REM Sleep (Dream)

Repeat

To Nap Or Not To Nap?



#### Napping

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

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

#### 60% Of Sleep Problems Are Stress Related





SLEEP TIP
Your Brain Is
A
Pattern
Machine



#### Practical Before Bed Tips

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





# Thanks and wishing you a healthy week with great sleep....

#### Questions:

- Melatonin?
- Alcohol?
- Food?
- Exercise?
- Caffeine?
- How much sleep?
- Sound?
- Sleep Trackers?

#### "A wonderful, life-changing book."

-BRIAN TRACY, international bestselling author of Eat That Frog!

BOOST FOCUS, SLEEP BETTER, STRESS LESS



#### AGE-PROOF BRAIN

New Strategies to Improve Memory, Protect Immunity & Fight Off Dementia

MARC MILSTEIN, PhD

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