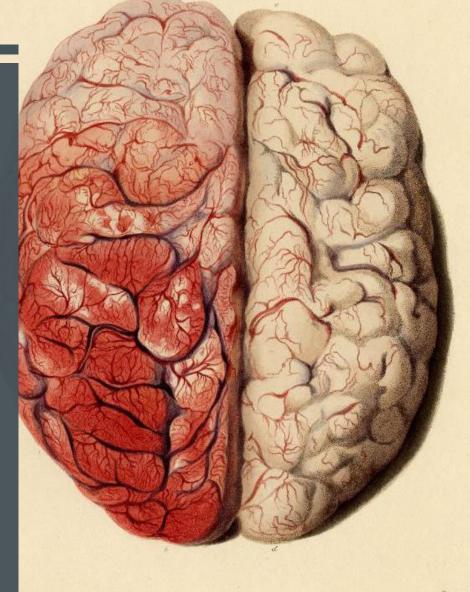


We are always hearing people talk about 'loss of sleep' as a calamity. They better call it loss of time, vitality and opportunities.

CIRCADIAN RHYTHM

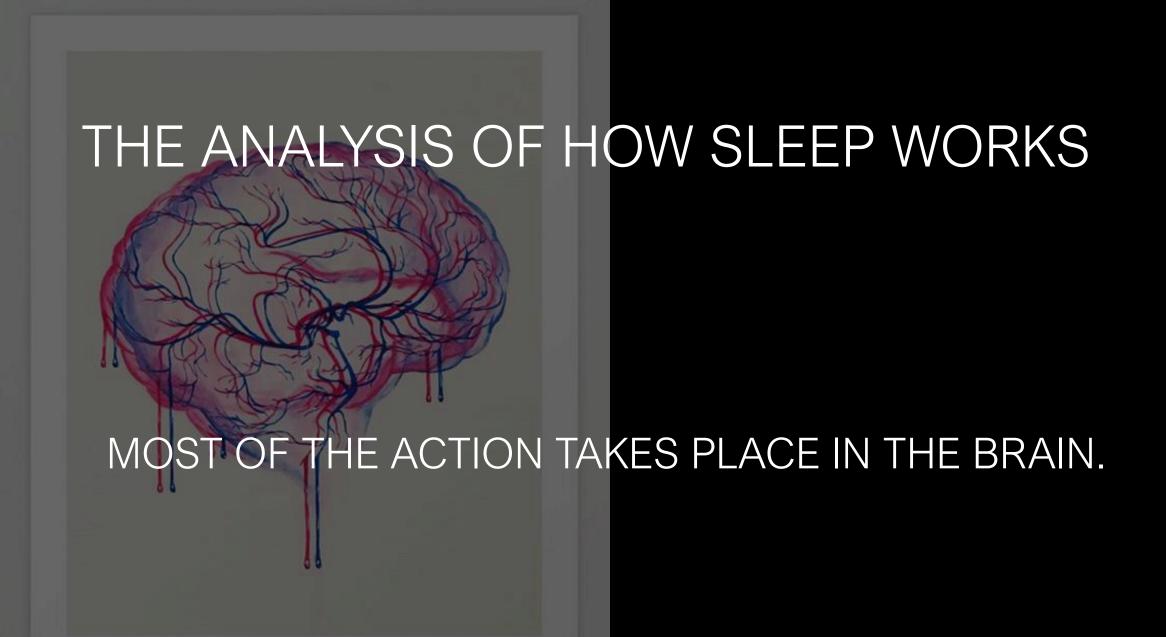
Your circadian rhythm is basically a 24-hour internal clock that is running in the background of your brain and cycles between sleepiness and alertness at regular intervals. It's also known as your sleep/wake cycle. – National Sleep Foundation

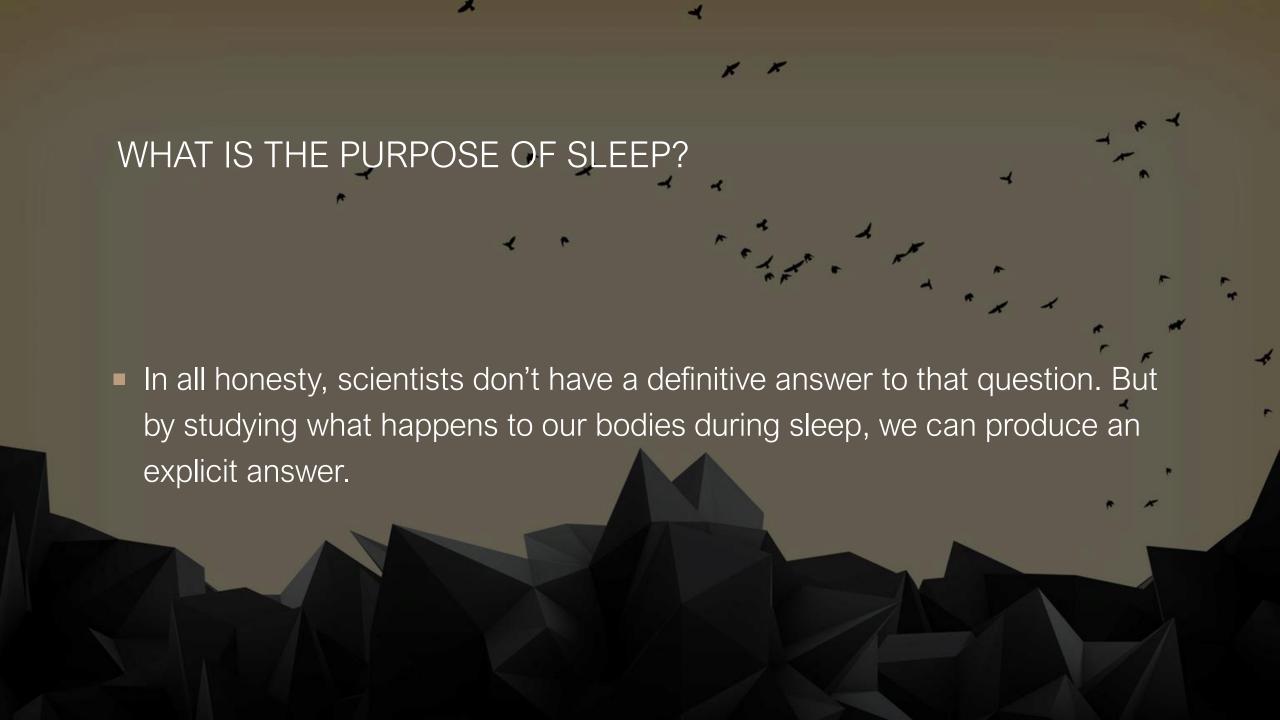


Engraved by W.Say. 20. Blocksom, Street.

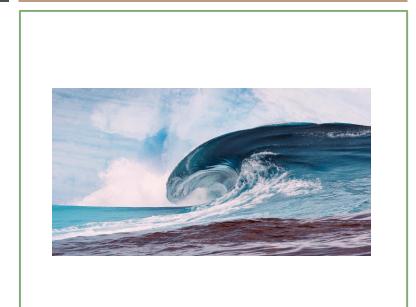
WHAT IS SLEEP

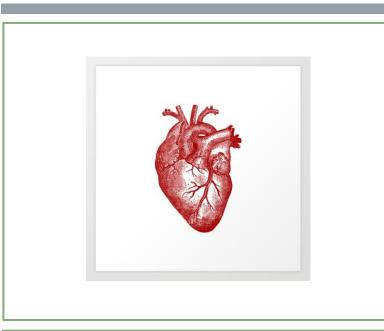




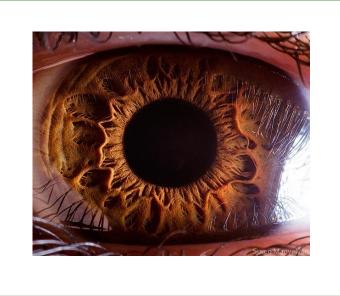


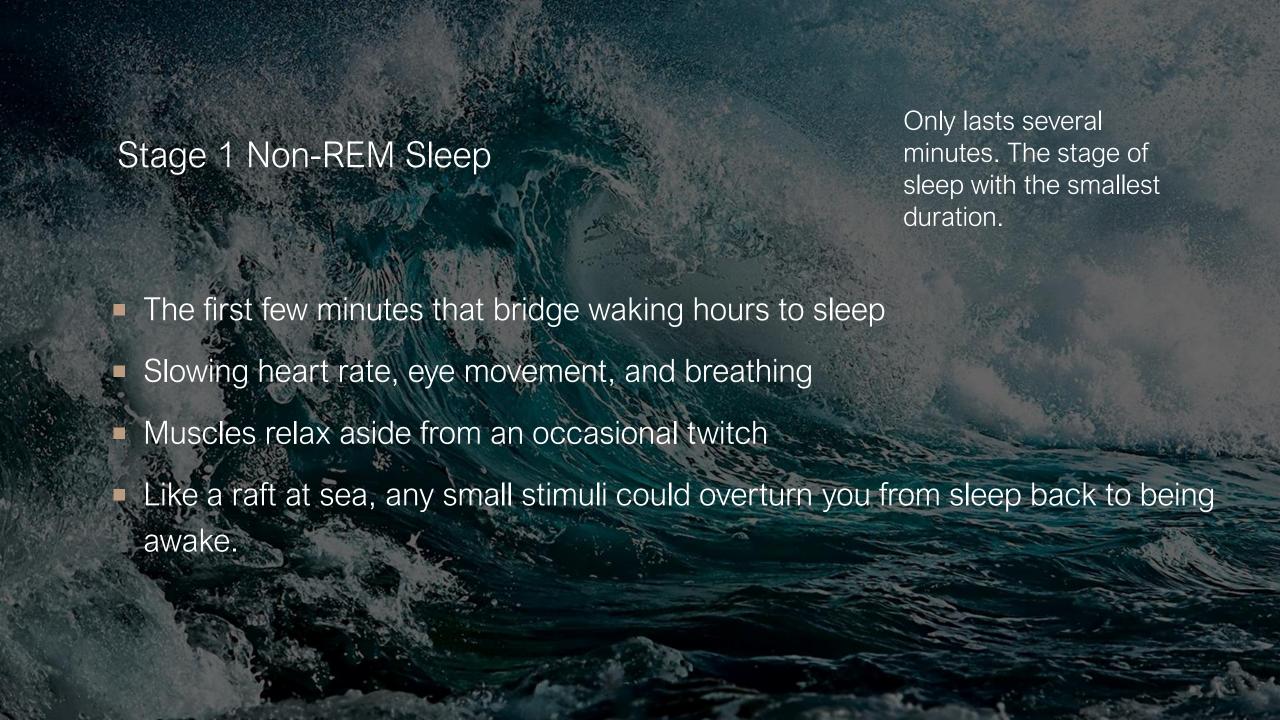
THE FOUR STAGES OF SLEEP











STAGE 2 NON-REM SLEEP

Your heart rate slows even more, as does your breathing. In addition your eye movement comes to a near complete stop. Your muscles relax, and body temperature drops.

As you cycle through the stages of sleep, you spend the most time in stage 2 non-REM sleep, nearly half of the night is spent in this state.

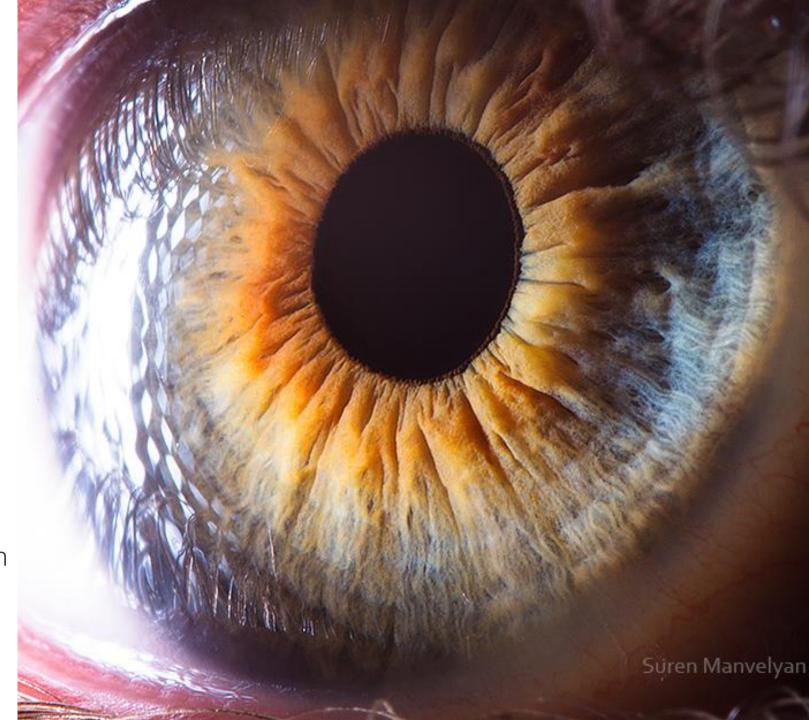
Stage 3 Non-REM Sleep (Delta Sleep)

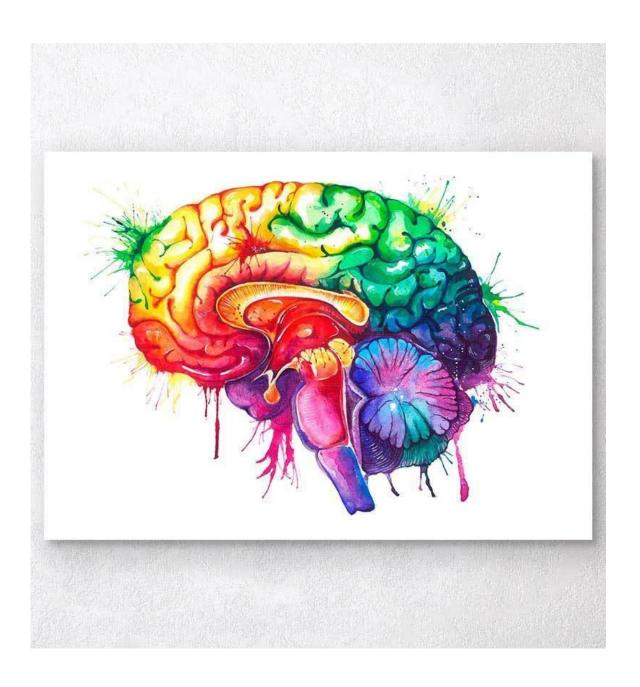
- The deepest stage of sleep.
- Is vital to waking up feeling refreshed and ready for the day.
- While in this stage many slow delta waves can be observed in your brain. This is where the two nicknames for Stage 3 Non-REM sleep come from (delta sleep, and slow wave sleep).

 First period which is usually about an hour into your sleep, is about 45-90 minutes long, however as the night progresses the intervals of Delta sleep continue to shorten.

REM SLEEP

- REM = Rapid Eye Movement
- First period is about 90 minutes after stage 1 begins.
- Brain wave and body activity is most like waking hours.
- Also when most dreaming, memory storage, and increase in heartrate and breathing occur.



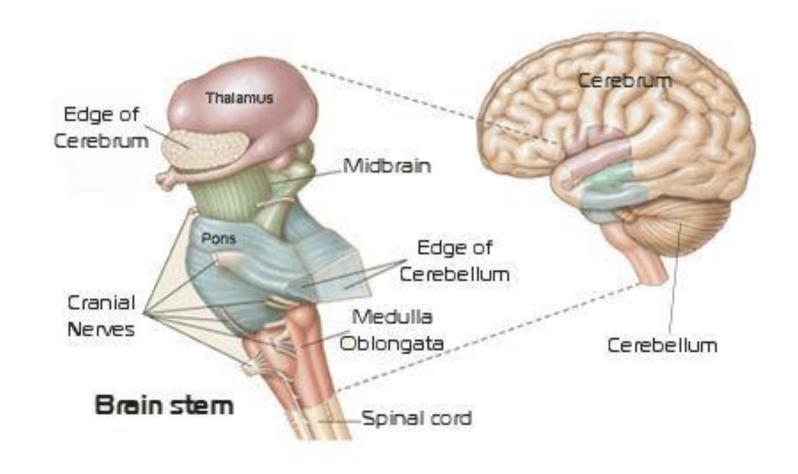


THE SUCCESS OF SLEEP IS ESSENTIAL FOR OUR BRAIN TO FUNCTION

THE HYPOTHALAMUS



THE BRAIN STEM



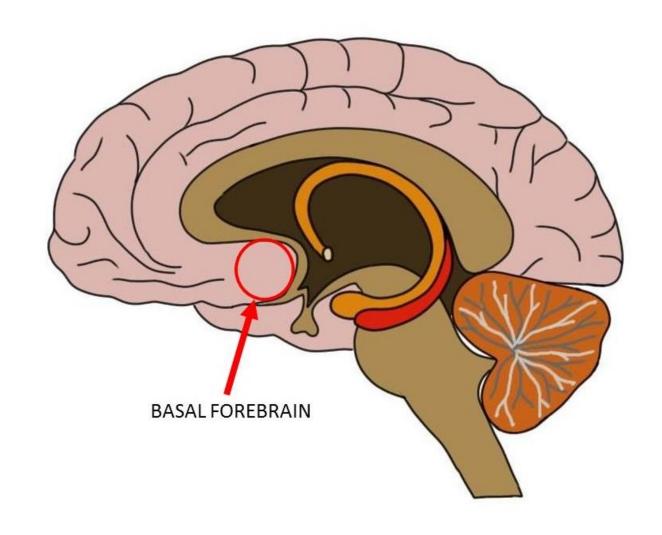
THE THALAMUS



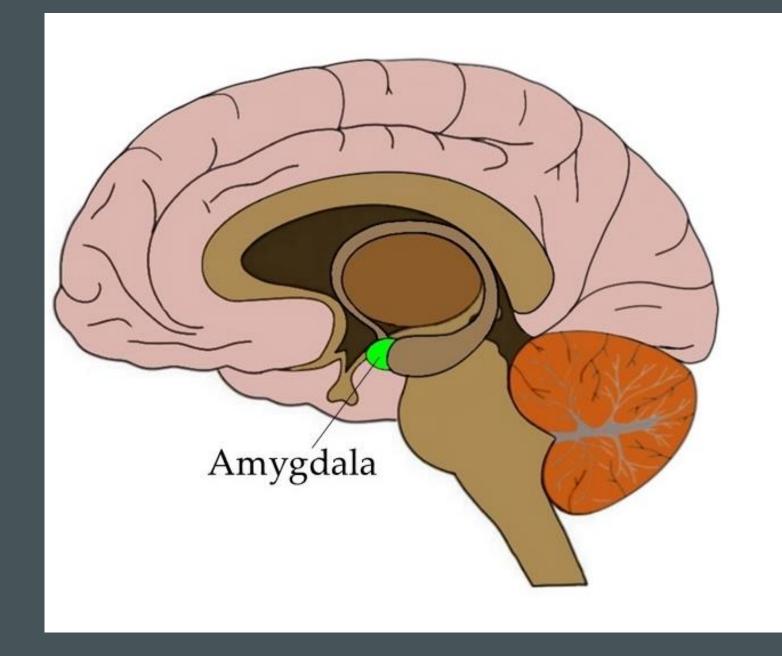
THE PINEAL GLAND



THE BASAL FOREBRAIN



THE AMYGDALA



SLEEP DEPRIVATION





LACK OF SLEEP

- Harms your memory, by not allowing memories to reach the hippocampus.
- This can take a significant toll on learning.
- Also does not allow the brain to clear itself of harmful toxins and proteins.

LACK OF SLEEP



Can harm your bodily well being as well.



Specifically stops the production of cancer fighting cells.



Also linked to cardiovascular disease, depression, weight gain, mood swings, and poor balance or coordination.

CAUSES OF SLEEP DEPRIVATION





OTHER FACTORS OF SLEEP DEPRIVATION









Illness: This can play a major role in how much sleep one needs and how much they get as well. Age: As we age it is often more difficult to stay asleep for longer periods of time.

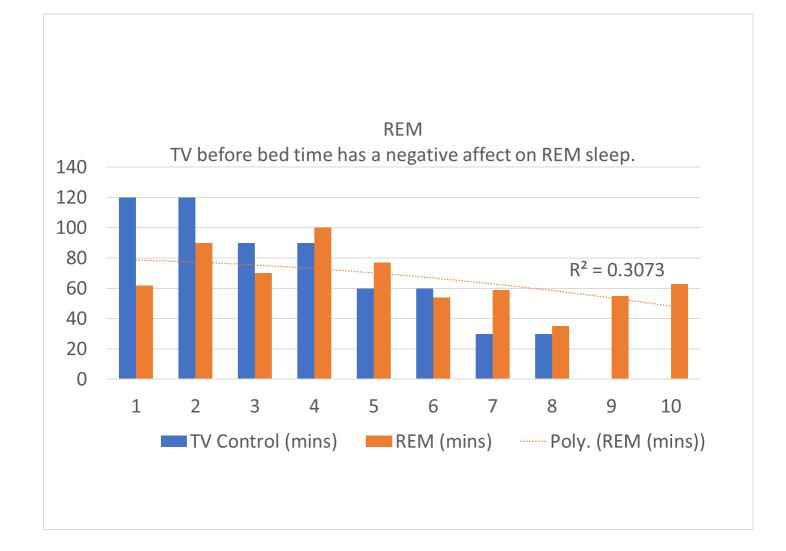
Disruptions in the household

Change in schedules or patterns.

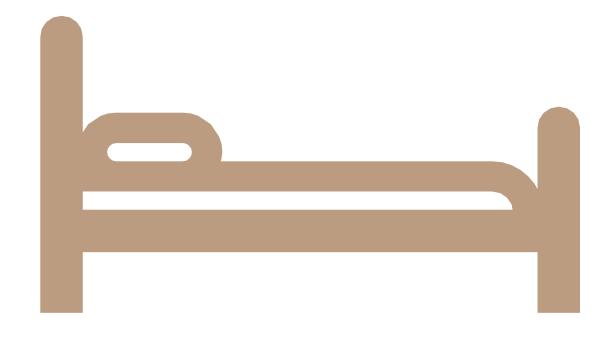
TV BEFORE BEDTIME HAS NEGATIVE EFFECTS ON SLEEP



HOW REM
SLEEP IS
AFFECTED BY
TV BEFORE
BEDTIME.



HOW DOES
ONE GO
ABOUT
GETTING
BETTER
SLEEP?



INCREASE LIGHT **EXPOSURE** DURING THE DAY (AND REDUCE IT AT NIGHT)



REDUCE OR ELIMINATE TV WATCHED DIRECTLY BEFORE BED



STICK TO A SCHEDULE



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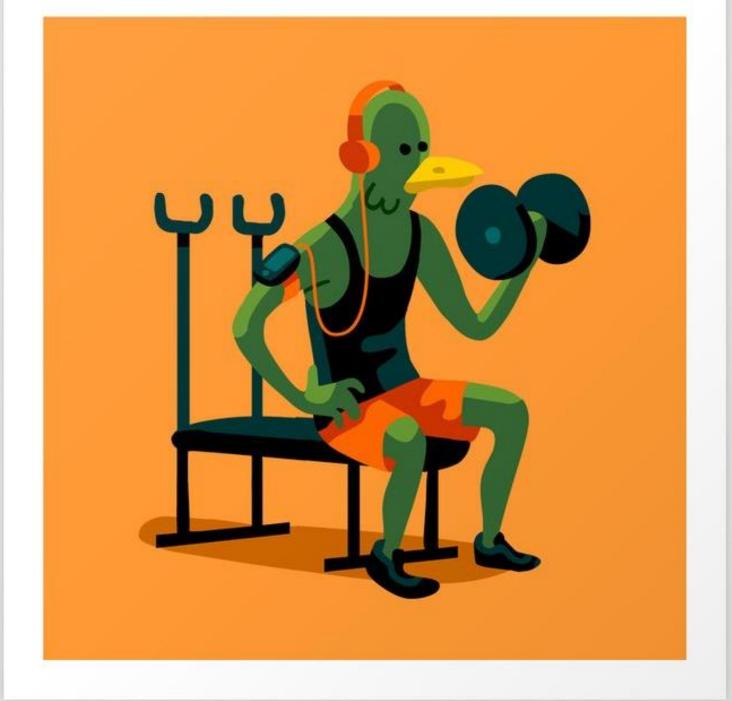




REDUCE CAFFEINE AND ALCOHOL CONSUMPTION



DON'T WORK
OUT OR
EXERCISE
DIRECTLY
BEFORE BED





SO DON'T FORGET TO GET SOME SHUT EYE TONIGHT

