

# The 4 STAGES OF SLEEP



## AWAKE STAGE

- ◆ The time in your bed, before and after actual sleep
- ◆ Includes the time you wake up in your sleep



## LIGHT SLEEP STAGE (NREM 1+2)

Starts light and intensifies into deeper stages

- ◆ Muscles loosen and may jerk ◆ Breathing slows down
- ◆ Decrease in heart rate ◆ Drop in body temperature
- ◆ Slipping into sleep/transitioning between sleep cycles
- ◆ Easy to awaken



## DEEP SLEEP STAGE (NREM 3+4)

Body restored through deep sleep

- ◆ Drop in BP
- ◆ Aides muscle growth and body repair by
  - a) Increasing blood flow to muscles
  - b) Secretion of growth hormone
  - c) Cell repair and tissue growth
- ◆ Brain takes out waste and exhibits long, slow brain waves
- ◆ Hard to be woken up and groggy/disoriented if awakened



## REM SLEEP STAGE (REM)

Mind re-energised during REM

- ◆ Respiration and heart rate increase
- ◆ No regulation of body temperature
  - ◆ Occurrence of vivid dreams
- ◆ Body becomes immobilised to prevent acting out the dreams
- ◆ Boosts memory, learning and problem solving

# Sleep Sleep Sleep

**Judd E. Hollander**



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