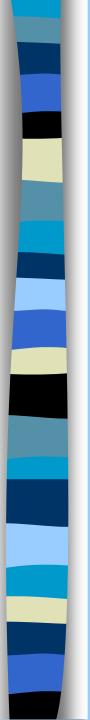
Sleep....ZZZZZZZZZ



Sleep and Dreams What is sleep? Why is it important? How does it affect us? What are dreams?



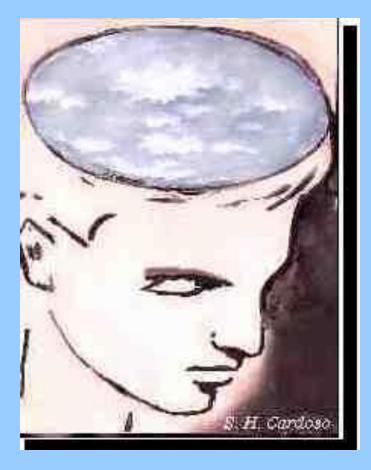
Sleep and Dreams



Sleep is a state of altered consciousness, punctuated by states of brain activity and inactivity

Sleep and Dreams

Consciousness: a state of awareness Altered states means that people are at different levels of awareness.





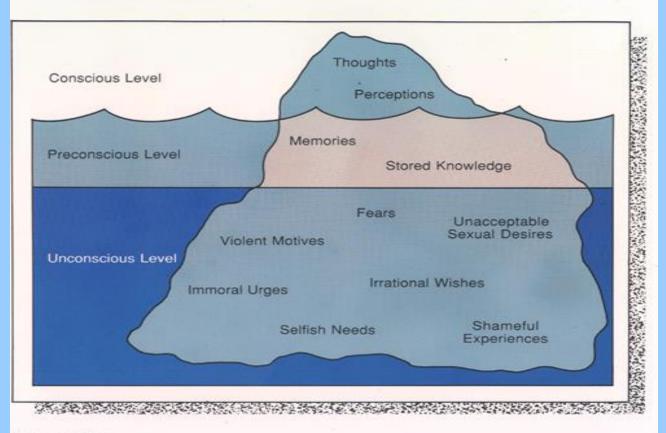
Consciousness



 Varies from alertness to nonalertness
 Sleep is an altered state

Freud's Levels of Consciousness

PERS 5 Freud's View of the Human Mind: The Mental Iceberg



Why do we sleep?

 Has been difficult to study in the past
 Studied with EEG – records brain activity



Why do we sleep?

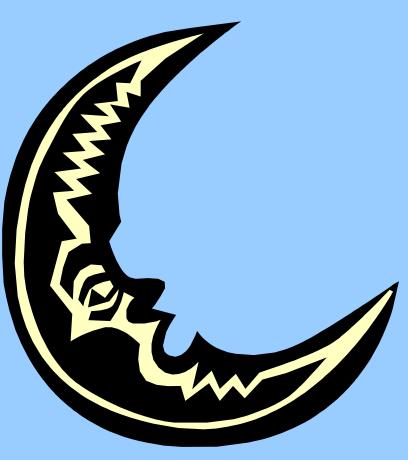


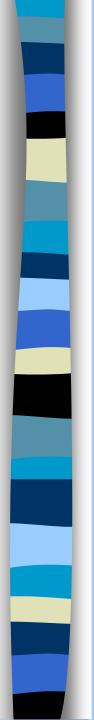
Many suggestions -Restorative -Primitive hibernation -Adaptive process -Clear brain

-Dream



Stages of sleep Five stages of sleep At the start: -Temp. drops -Pulse drops -Breathing slows -Eyes close -Body twitches -Visuals flash







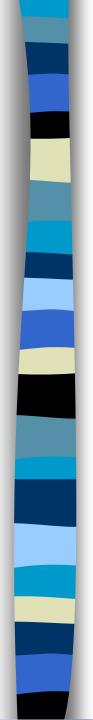


If awakened: "just drifting"
10 minutes
Alpha and theta waves present in brain



Stage two Brain waves shift from lowamplitude, high frequency to high amplitude, low frequency Eyes roll from side to side 30 minutes





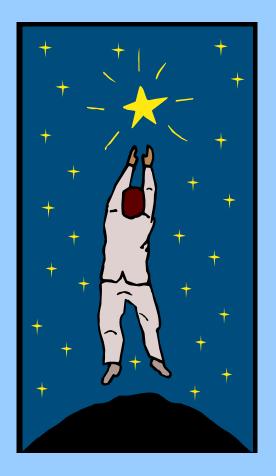
Stage three



 Large amplitude delta waves begin
 Occur approx. every second



Stage four Deepest stage Difficult to wake Large delta waves Memory faulty Important physically and psychologically









75 % of time spent in 1-4 People who cannot sleep for very long will move rapidly to stage 4

Stage five - REM

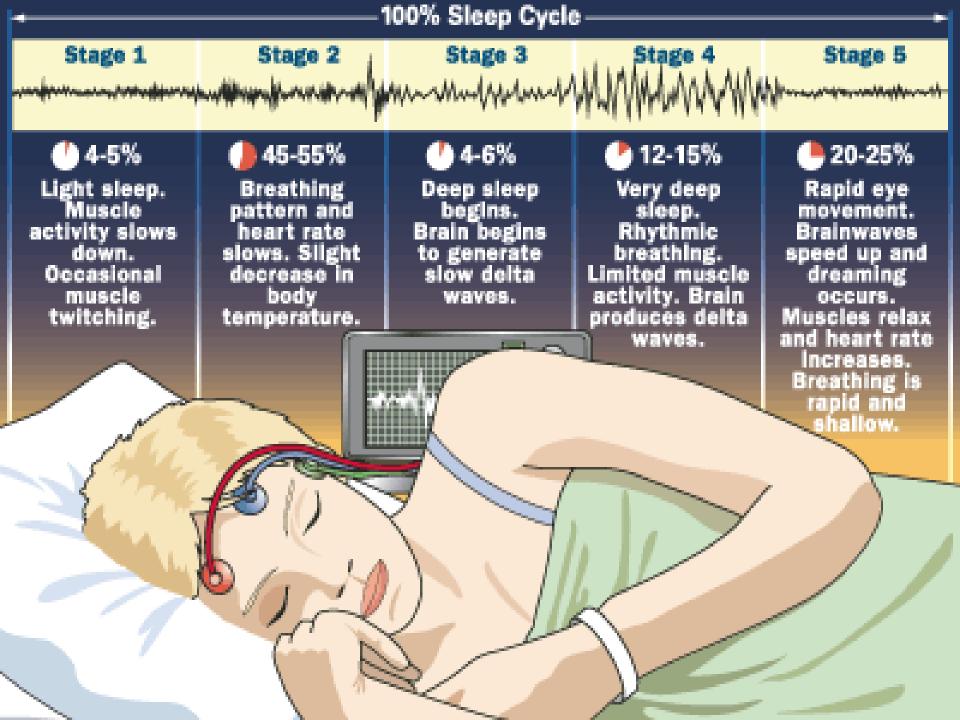
Muscles are most relaxed, eyes move rapidly (rem) Pulse, breathing rise Adrenal and sex hormones rise



Stage five - REM Inist you to wake me just as I was going to marry Tom Cruse.

Brain waves similar to being awake Dreaming takes place Lasts 15-45 min Approx. Every 90min

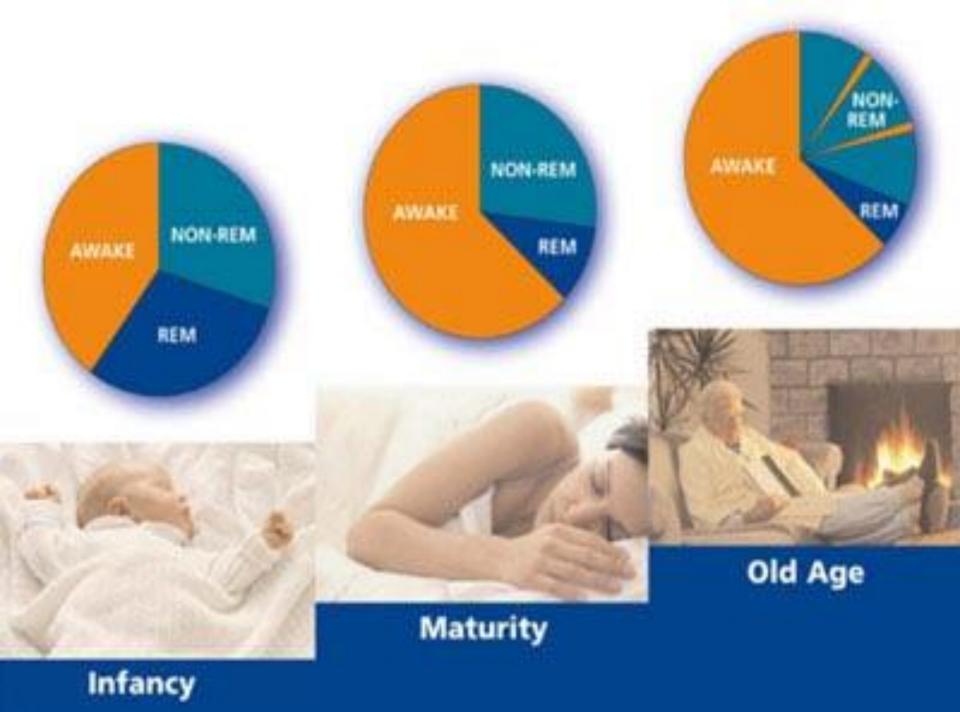
Build memory and learning



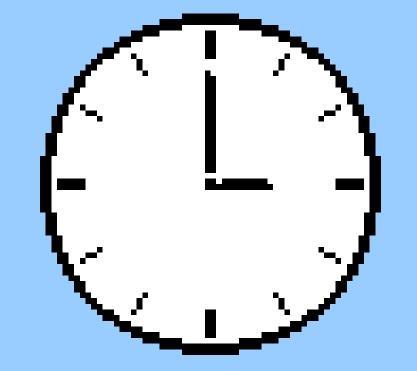
How much sleep?

Approx. 1/3 life Varies by age -Infants -16 hrs -Teens-10-11hrs - Seniors-5hrs Internal biological clock





Circadian Rhythm



Biological clock that regulates body physiological responses over 24 hr period Even when day/night cues are removed



Do not control sleep cycles
 Jet lag- c.r. doesn't match clock









Iday/each hr to recover

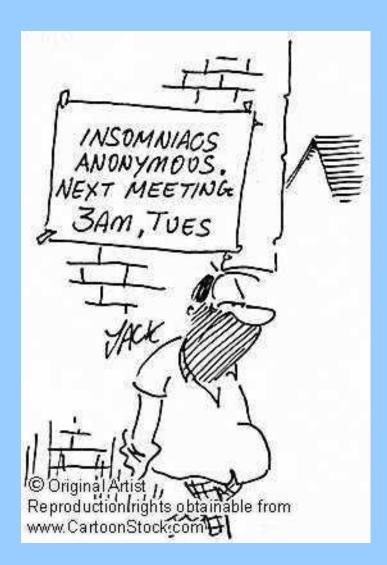






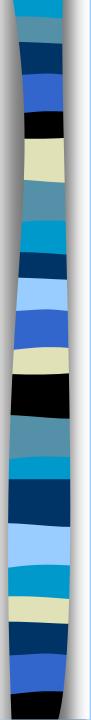
 Either with falling asleep, staying asleep, or staying awake

Insomnia – failure to get enough sleep -Causes: anxiety, depression, drugs, alcohol





Sleep Apnea – interruption of breathing during sleep actually choking Causes: snoring mostly



Narcolepsy – sudden falling asleep

 Prone to problems in work, leisure, relationships, and causes accidents

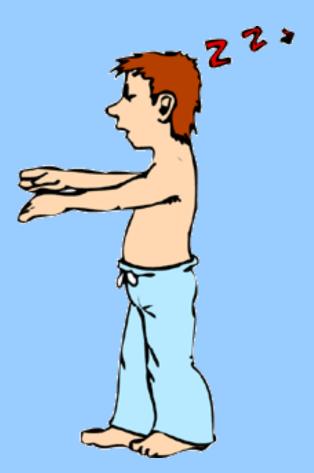


"On your application it says you have narcolepsy. What is that?"



Nightmares / Terrors Nightmaresunpleasant dreams stage 5 Terrors- stage 4 screaming, sweating, confusion

- Sleep walkingcarrying out behaviors while asleep
- Causes- stress, fatigue, medical
- Children, inherited
- Not dangerous to wake





Sleep talkingoccurs during all phases Words, sentences, conversations Engage in conv. Not dangerous



Dreams

 Mental activity that takes place during sleep

 Everyone dreams, some remember more than otherscultures





Dreams



Vague thoughts to vivid dramas in REM Seems necessary Most commonplace, dull

Dream interpretation

Freud/ Inuit: dreams have meanings No function Review day Crick: housekeeping

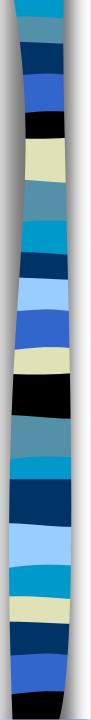


Day dreaming



Low level of awareness; fantasizing, directed thinking Boredom Improve creativity Control emotions

Hypnosis, Biofeedback, and Meditation Hypnosis is a state of consciousness resulting from a narrow focus of attention and heightened suggestibility



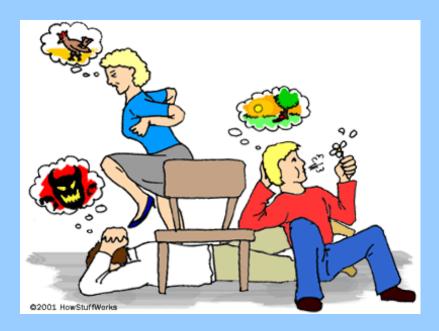
Hypnosis



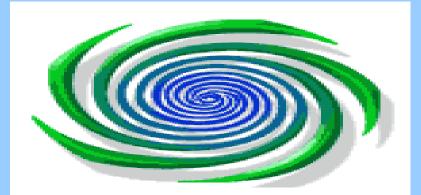
Hypnotist guides and directs Lose interest in external distractions Not under control Demands trust

Theories of hypnosis

Several arguments
 Suggestibility
 Neodissociation
 Acceptable role



Uses of hypnosis

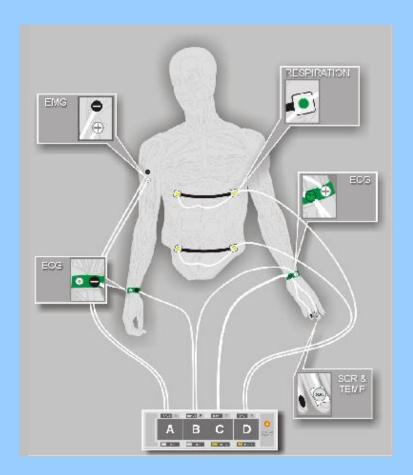


Entertainment Posthypnotic suggestion Hypnotic analgesia Therapy



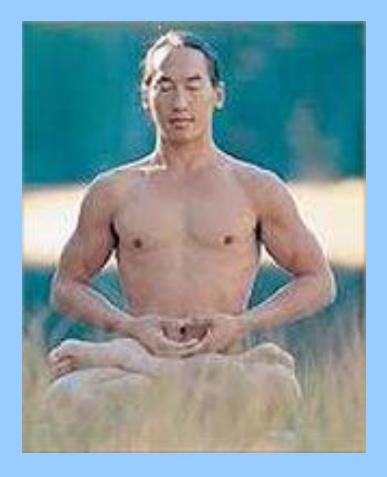
Biofeedback

Controlling internal body functions with the help of machines Pain, heart rate, BP, temp, sweat

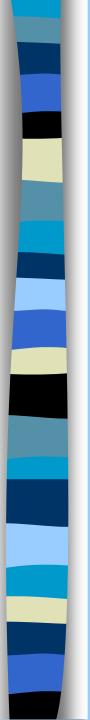




Meditation



 Clearing your mind to produce relaxation
 1000's of years



Meditation Three approaches -Transcendental - repetition of a mantra -Mindfulnessfocus through body -Breathconcentration

on respiration



Drugs and Consciousness

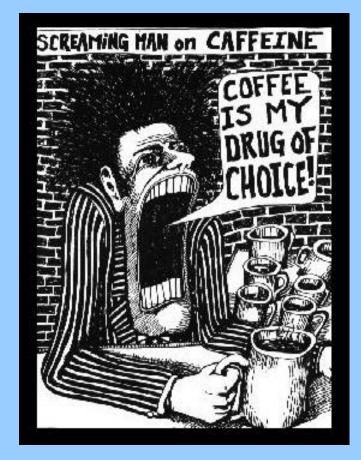


Psychoactive drugs: chemicals that affect the nervous system and result in altered consciousness

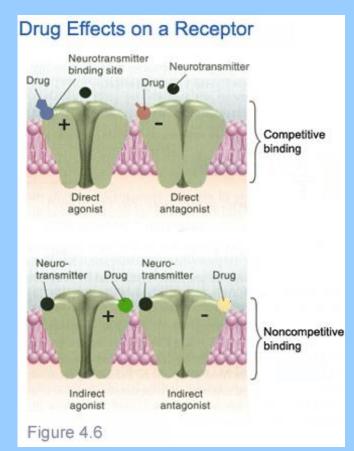
Psychoactive Drugs

Include:

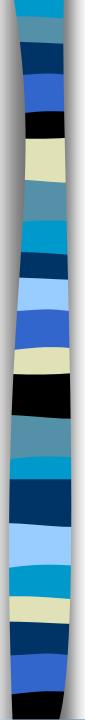
- -Caffeine
- -Alcohol
- Marijuana
- -LSD
- -Other hallucinogens



How drugs work

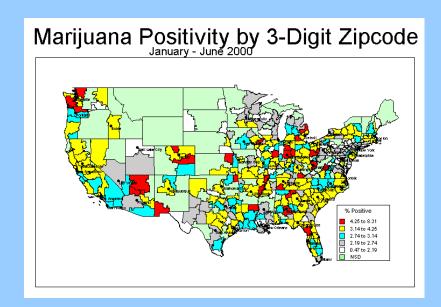


Carried by blood Taken up in target tissues Act like neurotransmitters and send out chemical messages



Marijuana THC – active ingredient Effects vary - & +-Psychologically addictive

- More damaging than cigarettes
- Scores and Memory



Hallucinations

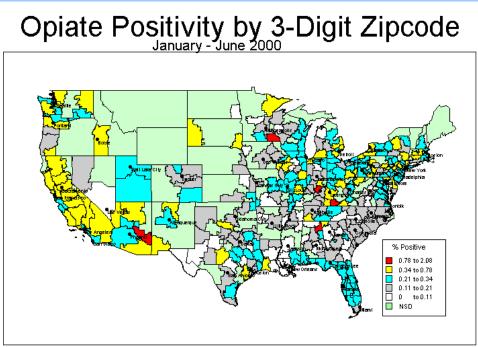


Perceptions with no external cause Tired, drugs, sick, daydreams Brain disorganized, while CNS is aroused.



Opiates

- Called narcotics
 - Opium
 - Morphine
 - Heroin
 - Pain reduction euphoria, and constipation.
- Physical addiction
- Overdoserespiratory failure





Alcohol



Most wide use Depressant Can lead to permanent brain and liver damage

Drug Abuse and Treatment Why abuse drugs? Loss of control Addictions Treatment: -Admittance -Program -Recovery & **Future**