STATES OF CONSCIOUSNESS 2-4%

CONSCIOUSNESS IS DEFINED AS THE AWARENESS OF OURSELVES AND OUR ENVIRONMENT.

CIRCADIAN RHYTHMS

are our bodies biological cycles that occur every 24 hours.

Sleep, blood pressure, body temperature are just some examples

Awake Beta waves

Drowsy, relaxed Alpha waves and the second and the second and the second s

Stage N1 sleep Theta waves

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Stage N2 sleep Sleep spindles - myself man man

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Stage N3 sleep Delta waves

REM sleep Fast, random

SLEEP STAGES

When people are relaxed & ready to fall asleep, their **EEG (electroencephalogram**) shows mostly <u>alpha waves.</u>

Stage I sleep lasts for just a few minutes.
Stage 2 sleep last for about 20 minutes & is characterized by short burst of brain waves called <u>sleep spindles</u>.

Stages 3 & 4 are known as slow wave sleep, and the EEG displays <u>delta waves</u>. People in stage 3 & 4 sleep show slow breathing & pulse rates, are difficult to arouse. This is the stage in which sleep walking occurs.

At the end of stage 4, people go back through the stages in reverse for stage 4 to 3 to 2 and then into <u>**REM or Rapid Eye Movement**</u>, also known as <u>**paradoxical sleep**</u>.

SLEEP DEPRIVATION

- REM sleep deprivation interferes with memory.
- If deprived of REM sleep will experience
 <u>REM rebound</u>-experiencing more & longer
 periods of REM the next time allowed to
 sleep normally.
- The more stress we experience, the longer our periods of REM sleep will be.

SLEEP DISORDERS

- <u>Insomnia</u> problem with falling or staying asleep
- <u>Narcolepsy</u> fall asleep during the day
- Sleep apnea stop breathing many times during the night, and each time they stop breathing, they wake up briefly and gasp for air. This robs them of deep sleep, which leads to irritability, high blood pressure & fatigue during the day.

DREAM THEORIES

• Dreams are the series of story like images we experience as we sleep.

• LUCID DREAMS are when we are aware we are dreaming & control our dreams.

The Psychoanalytic View

- Manifest content –storyline of the dream Latent content – hidden meaning of the dream.
- Freud felt that dream interpretation was a method to get at the repressed memories & that dreams were wish fulfilling..in other words we act out our unconscious desires.

THE ACTIVATION SYNTHESIS THEORY

- The dreaming brain is a result of randomly activated neurons during REM sleep.
- Just random neural impulses.
- The brain synthesizes these spontaneously generated neural signals into coherent patterns or dreams.
- Dreams are basically brain sparks.

The Information Processing Theory

 Stress during the day will increase the number and intensity of dreams during the night. Most people's dream content relates to their daily concerns or problems. So perhaps the brain is dealing with daily stress and information during REM sleep.

• HYPNOSIS

- is a procedure that opens people up to the power of suggestion, by placing the subject into an intense state of relaxation.
- **Posthypnotic amnesia** instructed to forget what happened during the hypnosis.
- **Posthypnotic suggestion** a suggestion that a hypnotized person behave in a certain way after being brought out of hypnosis.

Ernest Hilgard's Dissociation Theory

 Hypnosis causes us to divide our consciousness voluntarily. One part of our consciousness responds to the suggestions of the hypnotist, while the other part retains an awareness of reality.

PSYCHOACTIVE DRUGS

- are chemicals that change consciousness awareness, mood, thinking, perception or behavior.
- **Stimulants**-increase alertness, elevate mood examples: Nicotine, caffeine, cocaine, amphetamines
- **Depressants**-decrease bodily processes, create relaxation

examples: alcohol, valium, xanax

 Narcotics/Opiates-numb the senses & serve as painkillers examples: codeine, morphine, heroin, opium

Hallucinogens- changes perception, examples: LSD & marijuana

Other vocabulary terms

- Tolerance Reduced responsiveness to a drug, prompting the user to increase the dosage to achieve effects previously obtained by lower doses.
- Withdrawal the discomfort that follows when a person who is dependent on a drug discontinues the use of that drug.
- Dependence a state of physiological and physiological need to take more of a substance after given use.