Brain Chemistryof Addiction

frauen | trauma | sucht Interationales Symposium

Presented by Carol Ackley
River Ridge Treatment Center
Burnsville, MN

Bremen, Germany September 22-24

Drug - Free America



AGE 0-4

AGE 4-12

AGE 18-24

AGE 24-38

AGE 38-65

AGE 65 -

Amoxicillin

Ritalin

Appetite

AGE 12-18

No - Doz

Prozac

Zantac

Everything Else

Suppressants

AMA stated alcoholism was a disease in 1956

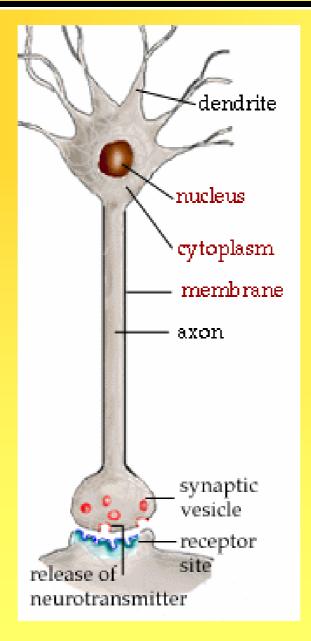
- Equal opportunity disease
- No one is immune
- Some people are much more vulnerable

Drug and Alcohol use interfere with primary survival pathways in the brain

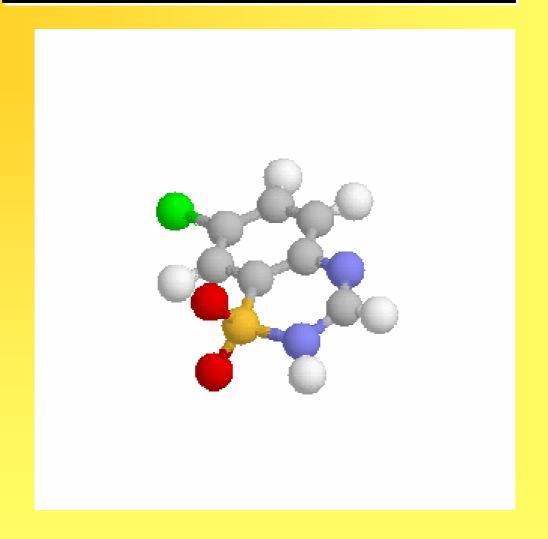
- Automatic
- Semi automatic
- Voluntary

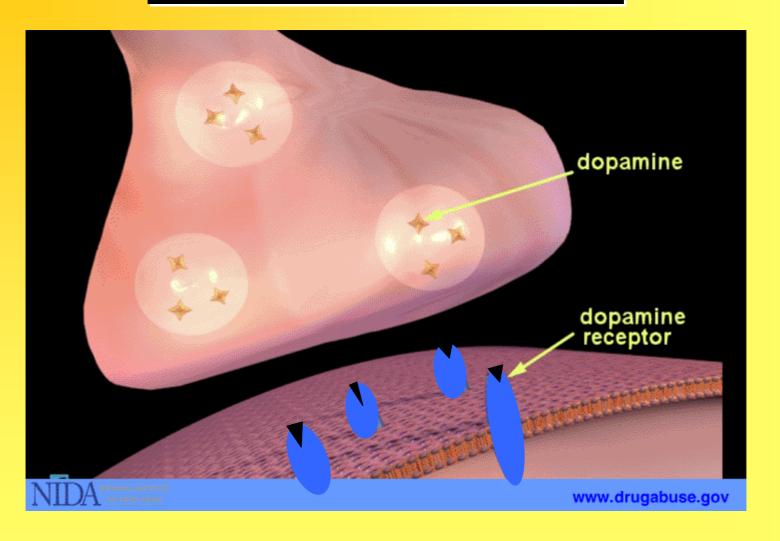
Neural Pathways in the Brain





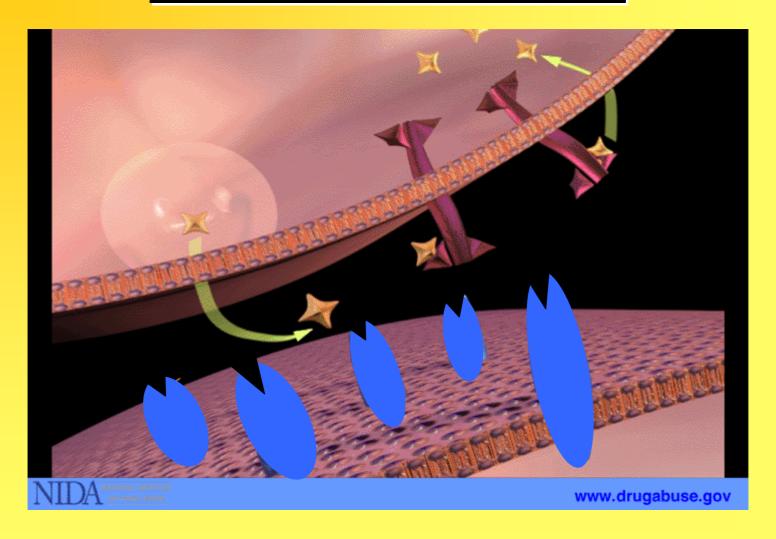
Molecular Structure





NEUROTRANSMITTERS

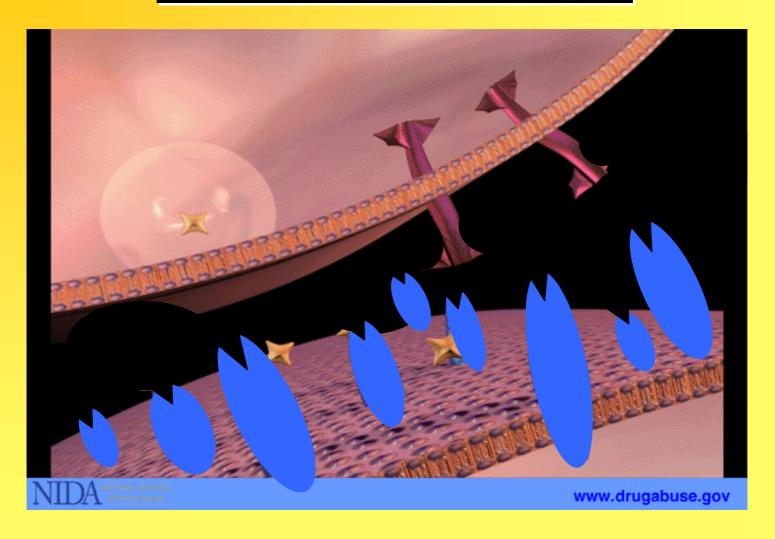
- Endorphins/ Enkephalins
- Serotonin
- Norepinephrine
- Dopamine
- Acetylcholine











ADDICTIVE DISEASE

- Progressive
- Chronic
- Fatal

ADDICTIVE DISEASE

- Full Remission
- Harm Reduction
- Prevention

6 MONTHS TO RESTABILIZE BRAIN CHEMISTRY

- Abstinence
- Nutrition
- Stress Prevention

VULNERABILITY to ADDICTIVE DISEASE

40% - 50% GENETIC

50% - 60% ENVIRONMENTAL

Early Onset
Chemical Environment
Poor Nutrition
Increased Stress
Poor Coping Mechanisms
Chronic Illness
Grief & Loss

Brain Chemistry of Addiction

- Addiction is a disease, not a choice
- Progressive, Chronic and Fatal
- Young brains at risk due to unique stage of development
- Very treatable
- Prevention important

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