

Therapies aimed an altering body chemistry

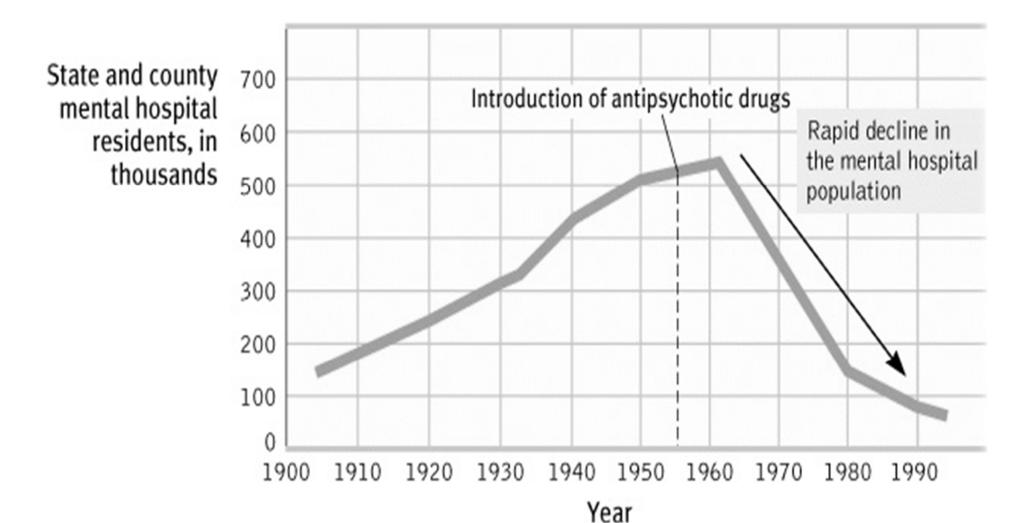


#### **PSYCHOPHARMACOLOGY**

The study of the effects of drugs on mind and behavior



#### DRUGS AND HOSPITALIZATION



#### **TESTING NEW DRUGS**

When a new drug is released, there is always too much enthusiasm A double-blind procedure must be used to combat placebo and experimental effects



#### **ANTIPSYCHOTIC DRUGS**

Medicines used to treat psychosis – typically in schizophrenia and bipolar psychosis patterns

Thorazine, although effective, has powerful side effects

Tardive dyskinesia – neurotoxic effect involving involuntary movements of facial muscles, tongue and limbs



#### **ANTIANXIETY DRUGS**

Valium, Librium and Xanax Like alcohol,

Like alcohol, they depress the nervous system activity

Most widely abused drugs today



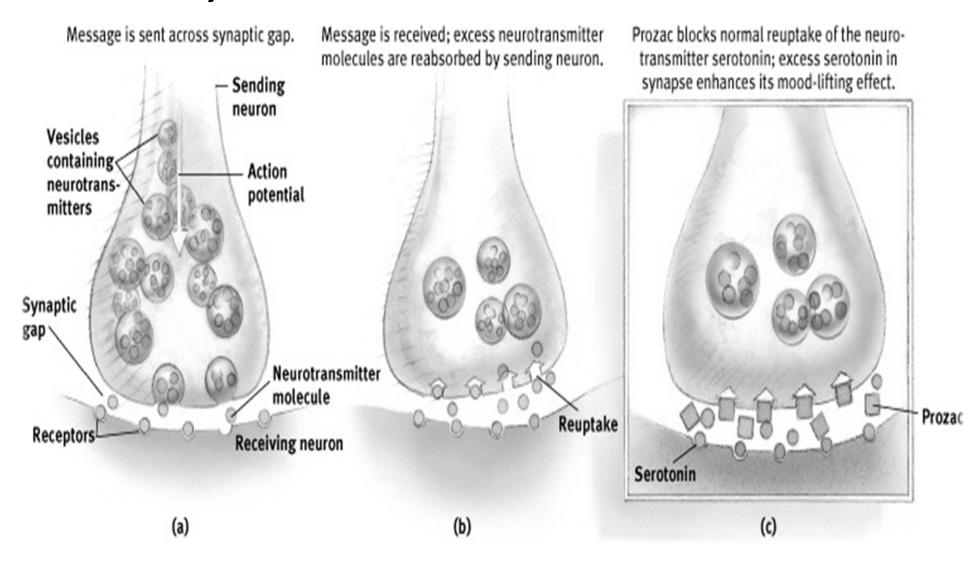




ANTIDEPRESSION DRUGS
Lift you out of depression
Must increase the
availability of
norepinephrine or
serotonin

Prozac, Paxil and Zoloft are known as SSRIs – selective serotonin reuptake inhibitors

### PROZAC, PAXIL AND ZOLOFT



### **ELECTROCONVULSIVE THERAPY (ECT)**

Biomedical therapy for severely depressed patients in which a brief electrical current is sent through the brain of an anesthetized patient, causing a mild seizure



Proven to be temporarily effective of ridding people of suicidal thoughts



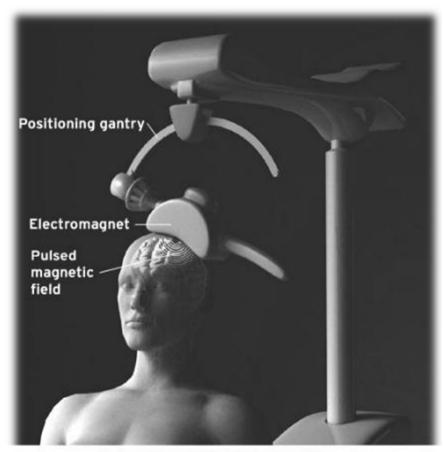
#### **ALTERNATIVE TO ECT**

Repetitive trasncranial magnetic stimulation (rTMS)

Application of magnetic energy to the brain

Does not produce seizures or memory loss

Approved by the FDA in 2008, studies still pending



Few side effects. Could gain approval by U.S. government regulators this year.

Long-term risks and long-term effectiveness are unknown.

#### **PSYCHOSURGERY**

Egas Moniz developed the lobotomy which became very popular in the 1940s and 1950s

Surgery that destroys frontal lobe brain tissue in an effort to change behavior

Icepick-like instrument through the eye sockets cutting the links between the frontal lobes and emotional control centers

