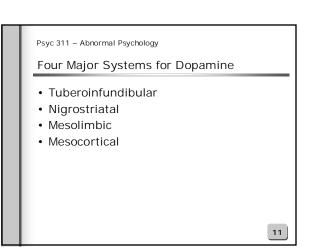


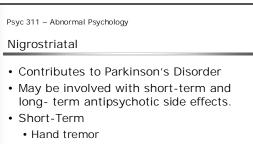


Which Receptors?

- At least five types of Dopamine receptors
- D1 D5
- D1 and D5 (D1a) Increase CAMP
 - Are in the cortex, hippocampus, caudate nucleus
- D2 Group (D2, D3, D4) decrease CAMP
 Are in the caudate, putamen, nucleus accumbens, amygdala, hippocampus, parts of the cortex.
 - Are also in the caudate and putamen.

10





- Muscle rigidity
- Long Term
 - Tardive Dyskinesia

Psyc 311 – Abnormal Psychology

Mesolimbic

- Several structures
- Is involved with emotion and memory.
- Symptoms of thought and perception disturbances are characteristic of schizophrenia and psychomotor epilepsy
- Carlsson
 - Hypothesizes the positive symptoms result from overactivity of this system

13

Psyc 311 – Abnormal Psychology

Mesocortical

- Originates in ventral tegmental area
- Projects to the cortex (especially prefrontal cortex)
- · Prefrontal cortex is involved in
 - Motivation
 - Planning
 - Attention
 - Social Behavior
- Hypothesized to be involved with negative symptoms of schizophrenia

Psyc 311 – Abnormal Psychology

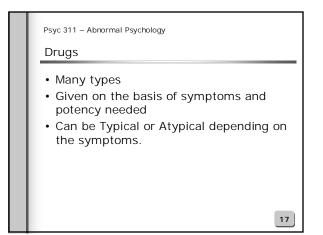
Weinberger

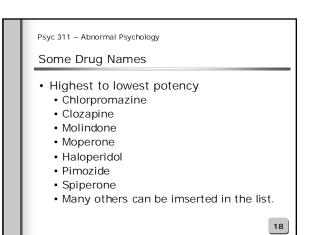
- Contents two dopamine systems are impacted by schizophrenia
- Increased activity of mesolimbic pathway through D2 group (especially D4) are associated with Positive symptoms.
- Decreased activity of mesocortical connections in prefrontal cortex is associated with negative symptoms.

15

Psyc 311 - Abnormal Psychology How? Mesocortical pathway to prefrontal cortex inhibits the mesolimbic pathway Primary effect of schizophrenia is a

- reduction of inhibition
- Leads to disinhibition in mesolimbic pathway
- · Get symptoms



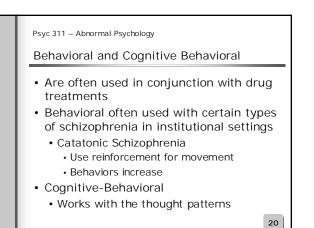


Psyc 311 – Abnormal Psychology

Drug Side Effects

- Include
 - Autonomic problems (dry mouth)
 - Skin-eye pigmentation
 - Breast development
 - Tardive dyskinesia: facial tics and gestures
 - Others e.g., feel weird
- Side effects cause people to stop their medications.

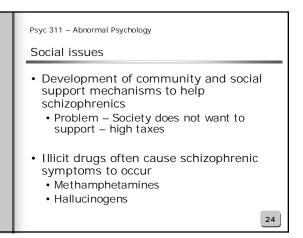
19



Psyc 311 – Abnormal Psychology Psyc 311 - Abnormal Psychology Other treatments Effectiveness · Behavioral models work well when used ECT alone or in conjunction with drugs • Psychoanalysis • Depends on the type of disorder when Nutritional used alone · Cognitive works well when used with • All ineffective in controlled evaluations drugs to help person deal with thought disorders Also works when abuse or other problems occur as well. 21 22



- How to decrease side effects of the drugs
 - Keep person on drugs
 - Reduce tolerance
- Drug costs expensive
- Identification of neurotransmitters and receptors involved with schizophrenia



Psyc 311 – Abnormal Psychology

Conclusion

- Treatments work for most people
- Societal costs are very high
- Need more research to solve the disorder