MOOD DISORDERS (p.l)

1. Types of mood disorders

mania depression reactive depression vs. endogenous depression dysthymia "double depression" bipolar mood disorder (1% lifetime risk) unipolar mood disorder (6% lifetime risk)

risk of suicide: about 10% of Ss with a mood disorder commit suicide

2. Causal Factors

moderate to high genetic factors 60% concordance for MZ twins vs. 15% for DZ twins bipolar > unipolar in concordance/genetics severe chronic stressors can also trigger depression in susceptible Ss

3. Neural Mechanisms

Monoamine theory of depression

Underactivity in 5HT, nor-epi, & DA synapses Which may lead to an "up-regulation" of RSs for monoamines (Mania is presumably the overactivity in 5HT, nor-epi, & DA synapses)

Diathesis-Stress Model of Depression

- Some *Ss* inherit a genetic susceptibility (diathesis) for depression, but disorder only occurs if *S* also exposed to stressors --- which then precipitates the whole mood disorder
- *Ss* prone to mood disorders, esp. depression, do have stronger stressrelated responses (e.g. elevated levels of CRF, ACTH, & glucocorticoids)
- fMRIs & PETs show reduced activity in amygdala & frontal lobes in depressed Ss; increased activity in same regions during mania

MOOD DISORDERS (p.2)

4. Drug Therapy for Mood Disorders

for treatment of **depression** (unipolar or dysthymia) **MAOIs** (monoamine oxidase inhibitors) Block MAO, thus increasing amounts of 5HT/nor-epi/DA "cheese reaction" (foods high in tyramine, like aged cheeses, cured meats, red wines, pickles) high levels on monoamines --- HBP --- strokes **Tricyclic (heterocyclic) antidepressants** e.g. imipramine (Tofranil) block the reuptake of both 5HT and norepi generally considered safer to use than MAOIs, but can have some bad cardiovascular effects **SSRI's** (selective serotonin reuptake inhibitors) e.g. fluoxetine (Prozac) because is more specific, generally fewer side-effects than TCAs gastritis, headaches, impotence 5HT agonists are also useful in Tx of aggression, rage, explosive personality

note: antidepressants are also good for treatment of **anxiety**, fear of failure, low self-esteem, **dysthymia**, **panic attacks** (depression and anxiety may be linked neurologically)

note: **ECT (electroconvulsive therapy)** is also very useful for Tx of severe depression & shows benefits almost immediately (vs. 3-6 weeks for drug therapy)

note: complete **sleep deprivation** also treats depression but is impractical! note: **vigorous exercise** (esp. aerobic) --- helps depression (endorphins?, improved sleep?, blood flow/oxygenation of CNS?, sense of control?)

for treatment of **mania**: "mood stabilizers" (tx both mania & depression) Lithium

Antiseizure drugs (e.g. Tegretol/carbamazepine, Depakote/valproic acid)