Student Version: **ANTIDEPRESSANTS**

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ANTIDEPRESSANTS

- · AKA "mood elevators"
- · Depression is frequently described as a chemical imbalance
- · Indications for use
 - Depression
 - Panic disorders
 - Smoking cessation

ANTIDEPRESSANTS (cont)

- **CLASSIFICATIONS** by chemical groups
 - Tricyclics (TCAs)
 - Monoamine Oxidase Inhibitors (MAOIs)
 - Selective Serotonin Re-uptake Inhibitors (SSRIs)
 - Miscellaneous

ANTIDEPRESSANTS (cont)

- Tricyclics

 - ExamplesElavil® (amitriptyline)
 - Tofranil® (imipramine)
 - First generation antidepressants
 - Not used as first line treatment
 - Increases nor-epinephrine and serotonin activity
 - Strong anticholinergic activity accounts for many of the side effects

ANTIDEPRESSANTS (cont)

- Tricyclics (cont)
 - Delayed action . . . 2-4 weeks
 - · Elevate mood
 - Increase alertness
 - Frequently given at bedtime due to mild sedative effect
 - Should NOT be used for the elderly
 - High incidence of sedation
 - Hypotension
 - Arrhythmias

ANTIDEPRESSANTS (cont)

- Tricyclics (cont)
 - -Side Effects
 - Dry mouth
 - Increased appetite and weight gain
 - · Drowsiness and dizziness
 - · Blurred vision
 - · Constipation and urinary retention
 - Postural hypotension
 - · Cardiac arrhythmias and palpitations
 - Confusion (especially in the elderly)

ANTIDEPRESSANTS (cont)

Tricyclics (cont)

- Contraindications

- · Cardiac, renal, GI and liver disorders
- · Older adults
- Glaucoma
- Obesity
- · Seizure disorders
- · Concomitant use of MAOIs

ANTIDEPRESSANTS (cont)

• Tricyclics (cont)

- Interactions
 - Clonidine hypertensive crisis
 - SSRIs (Selective Serotonin Re-uptake Inhibitors) increased tricyclic serum levels
 - · CNS drugs
 - Alcohol

ANTIDEPRESSANTS (cont)

Monoamine Oxidase Inhibitors

- Examples
 - Nardil® (phenelzine)
 - Eldepryl® (selegilene)
 - · Parnate® (tranylcypromine)
- Inhibit MAO which metabolizes norepinephrine and serotonin
- MAO is also responsible for metabolism of tyramines. If tyramines are not metabolized then blood vessels constrict...
 - Hypertension (hypertensive crisis can be fatal)
 - Chest pain
 - Intracranial bleed

ANTIDEPRESSANTS (cont)

Monoamine Oxidase Inhibitors (cont)

- Rarely used because of
 - Potentially serious, or fatal, side effects
 - Food and drug interactions
- -See pages 355-6, Woodrow text for:
 - · Side effects
 - Contraindications
 - Interactions
 - · Foods rich in tyramine

ANTIDEPRESSANTS (cont)

Selective Serotonin Re-uptake Inhibitors (SSRIs)

- Examples
 - Prozac® (fluoxetine)
 - Zoloft® (sertraline)
 - Pristig[®] (desvenlafaxine)
 - Viibryd® (vilazodone hydrochloride)
 - Approved by FDA in January, 2011
 - http://www.centerwatch.com/druginformation/fda-approvals/drugdetails.aspx?DrugID=1131

ANTIDEPRESSANTS (cont)

Selective Serotonin Re-uptake Inhibitors

- First line treatment
- Selectively block the reabsorption of the neurotransmitter serotonin (helps restore the brain's chemical balance).
- -Side effects
 - Nausea, anorexia
 - Insomnia, anxiety, nervousness, tremors, drowsiness, fatigue, dizziness, H/A
 - · Diarrhea, sweating
 - · Sexual dysfunction

ANTIDEPRESSANTS (cont)

- Selective Serotonin Re-uptake Inhibitors (cont.)
 - Contraindications / Use with caution
 - Suicide prone
 - Bipolar disorders (may cause manic attacks)
 - Liver or renal impairment
 - Diabetes
 - Eating disorders
 - · Pregnancy; lactation

ANTIDEPRESSANTS (cont)

- Selective Serotonin Re-uptake Inhibitors (cont.)
 - Interactions
 - · Other CNS drugs
 - May need to lower dosage of tricyclics
 - » Monitor for toxicity
 - Do not take concomitantly with MAOIs
 - Antiarrhythmics
 - Anticoagulants
 - Beta-blockers
 - Calcium channel blockers

ANTIDEPRESSANTS (cont)

- Miscellaneous
 - Examples
 - Wellbutrin® (bupropion)
 - Remeron® (mirtazapine)

ANTIDEPRESSANTS (cont)

- · Miscellaneous (cont)
 - Wellbutrin®
 - **Useful in severe depression** with extreme fatigue, lethargy and psychomotor retardation
 - Inhibits dopamine, norepinephrine, sertonin
 - Do not use concurrently with MAOIs
 - · Watch for anxiety
 - See pages 357-8 of Woodrow text for side effects, cautions and interactions.

ANTIDEPRESSANTS (cont)

- Miscellaneous (cont) Wellbutrin® (cont.)
 - Are there unlabeled uses of this drug?
 - AHHD
 - Enhancement of weight loss
 - Aggressive behavior
 - Neuropathic pain
 - Alcohol withdrawal
 - Fibromyalgia
 - •Stress incontinence