

for MHD & Therapeutics



The categories for today's Jeopardy will be:

SSRI's

SNRI's

Atypical Antidepressants

MAOI's

TCA's

SSRI's

SNRI's

Atypical Antidepressants MAO-I's

TCA's

<u>100</u>

<u>100</u>

<u>100</u>

<u>400</u>

<u>500</u>

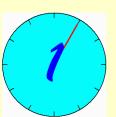
<u>500</u>

<u>600</u>

800 800

The half-life of this SSRI is about one week

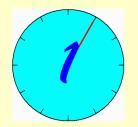






What is Selective Serotonin Reuptake Inhibitor?

SSRI is the abbreviation for this

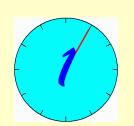




What is **Discontinuation Syndrome?**

If an SSRI with a short half life is abruptly stopped it may result in this







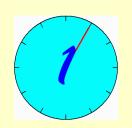
When switching to a MAOI from an SSRI, info about this pharmacokinetic property of the SSRI will provide guidance on how long of a washout is needed before starting the MAOI





What is **safety from overdose?**

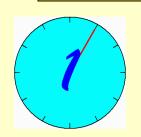
Arguable the single biggest improvement of SSRI's over their TCA predecessors is this





What is a **sertraline** (**Zoloft**)?

SSRI's include Fluoxetine (Prozac),
Paroxetine (Paxil), Citalopram (Celexa), Escitalopram (Lexapro),
Fluvoxamine (Luvox), and this





What is escitalopram (lexapro)?

This SSRI is the S-enantiomer of citalopram (celexa)

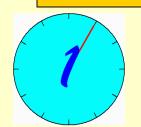




What is paroxetine (paxil) & fluvoxamine (luvox)

These two SSRI's have very short half lives & should be tapered to be discontinued



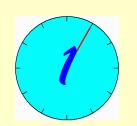




What are **sexual side effects?**

This is a common side effect of all SSRI's & the doctor should specifically ask about it as the patient may otherwise be too embarrassed to talk about it







What is Serotonin Norepinephrine Reuptake Inhibitor?

The mechanism of action of SNRI's is this







What is **desvenlafaxine** (pristiq)

This SNRI is the psychoactive metabolite of another SNRI







What is **serotonin?**

Whether the dose is very high, moderate, or low, this neurotransmitter's reuptake is blocked by venlafaxine (effexor)





What is **dopamine?**

At very high doses (>375mg/d) of venlafaxine (effexor) this neurotransmitter's reuptake may begin to be blocked





What is **duloxetine** (cymbalta)

This SNRI is preferred for painful symptoms of depression or diabetic neuropathy pain





What is TCA's?

SSRI's MAOI's TCA's



Venlafaxine (Effexor)'s mechanism of action is most similar to this class of antidepressants





What is **discontinuation syndrome?**

When stopping venlafaxine (effexor) it should be gradually tapered in order to avoid this





What is **NE reuptake inhibition?**

The SNRI side effect of diaphoresis *is due to this





What is increased blood pressure?

Venlafaxine (effexor) has this relatively common, dose dependent, cardiac system related side effect







SSRIs or venlafaxine (effexor) may cause these common side effects which mirtazepine's (remeron) 5HT₃ antagonism may help reduce or remove





What is nicotine (smoking cessation)?

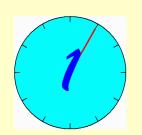
Marketed under the name Zyban, (Bupropion) is useful in treating cravings from dependence on this substance





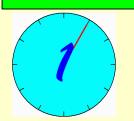
What is **sexual dysfunction?**

Mirtazepine (Remeron)'s 5HT_{2A} antagonist activity & Wellbutrin (Bupropion)'s lack of any 5-HT activity is why neither has this common SSRI side effect





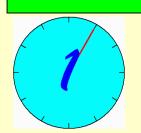
Like most anti-depressants, at typical doses bupropion (wellbutrin) carries a small risk of this serious side effect but the risk increases from 0.4% to 4% at very high doses





What are vortioxetine (Brintellix)?

In the evolution of antidepressants, drugs that are SSRI's with 5-HT receptor antagonists or partial agonists are vilazodone (viibryd) and this





What is pre-synaptic alpha 2 adrenergic antagonist?

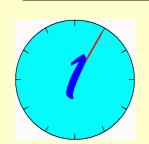
Mirtazepine (Remeron)'s novel mechanism of action by which norepinephrine and serotonin system activity is increased is this





What is **slightly decrease?** (or no change)

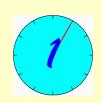
Bupropion (Wellbutrin) commonly does this to a patient's weight





What is **weight gain?**

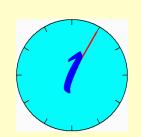
This mirtazapine (remeron) side effect is more likely in women than men, before menopause than after, and is unlikely to be a problem if it has not occurred within the first 6 weeks of treatment





What is 2-4 weeks

Onset of therapeutic action is usually not immediate, but is delayed until this time period

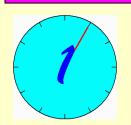




What is **serotonin syndrome?**

SSRI's and MAOI's used in combination carry a high risk of this side effect

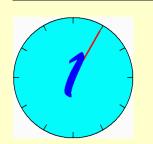






What is **MAO-A?**

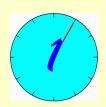
While there are two MAOs (MAO-A & MAO-B), inactivating this one appears necessary for the antidepressant effect





What is **Reversible Inhibitor of Monoamine Oxidase?**

Regarding MAOI's, a RIMA is this





What are 10-14 days?

While the t_{1/2} is 2-4 hours, the amount of time for most MAO-I's to wash out is this

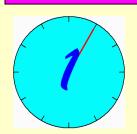






What is HTN crisis (from dietary tyramine)?

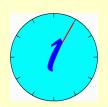
At low doses, Selegiline (Emsam)'s transdermal delivery greatly decreases this possible side effect





What is **hypertensive crisis?**

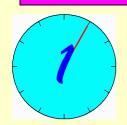
Patient's taking an MAOI need to avoid foods high in tyramine and sympathomimetic medications due to the risk of this





What is **mitochondria?**

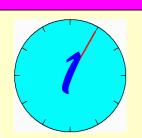
The cellular organelle containing the MAO enzyme that is inactivated by MAOI's is this





What is **treatment resistant?**

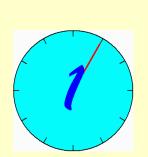
MAOI's are effective in treating depression with melancholic features, depression with atypical features, persistent depressive disorder, and this type of depression





What is day-night shifting?

While MAOI's may result in serotonin related side effects such as GI distress, sexual dysfunction, and sleep disturbance, the unusual thing about the sleep disturbance is this

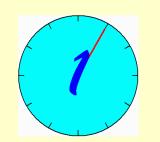




What is nortriptyline (pamelor)?

A tertiary amine, amitriptyline (elavil), is metabolized to a secondary amine which is this TCA







What is anticholinergic activity?

Blurred vision, urinary hesitancy, dry mouth, and constipation are due to this neurotransmitter receptor activity by TCA's





What is desipramine (norpramin)?

A tertiary amine, imipramine (tofranil), is metabolized to a secondary amine which is this TCA

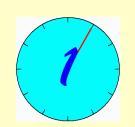






What are Imipramine & Amitriptyline (Tertiary TCs)?

Most TCA's preferentially block reuptake of NE vs 5-HT, but these 2
TCA's comparably block the reuptake of both NE & 5-HT





What is **cytochrome p450 2D6?**

Fluoxetine (prozac), paroxetine (paxil), bupropion (wellbutrin), duloxetine (cymbalta) and other medications may increase all TCA's concentration by inhibiting this p450 enzyme

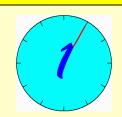




What is alpha adrenergic-1 receptor?

Side effects of dizziness, sedation, and hypotension likely result from TCA's antagonist activity of this receptor

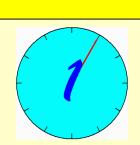






What is **histamine** (H1)?

Side effects of sedation and weight gain from TCA's are likely due to antagonist activity at this receptor





What is serotonin and norepinephrine reuptake inhibition?

TCA's mechanism of action for treating depression is this







What are sodium channels?

The dangerous side effects from a TCA overdose are cardiac arrhythmias caused by blockade of this





