Special Thanks...
BASED ON THE CURRENT DSM-5
9 MENTAL DISORDERS
UNDER ANXIETY CATEGORY

1. Separation Anxiety Disorder
2. Selective Mutism
3. Specific Phobia
4. Social Anxiety Disorder
5. Panic Disorder - Panic Attack
6. Agoraphobia
7. Generalized Anxiety Disorder
8. Substance/Medication-Induced Anxiety Disorder
9. Anxiety Disorder Due to Another Medical Condition

Source: https://www.slideshare.net/Lucia_Merino/anxiety-disorders-dsm5-41189388
ANXIETY NOS (NOT OTHERWISE SPECIFIED)

• In real life, patients usually just have “anxiety” that doesn’t fit neatly into any of these specific categories.

• Many patients will have features of many different anxiety disorders, especially when something is wrong with their lives.

• Anxiety disorders are highly comorbid with MDD, substance use disorders, and other anxiety disorders.

• Story of my patient...
AGE OF ONSET

- Separation Anxiety: child diagnosis
- Selective Mutism: child diagnosis

Other DSM anxiety disorders seem to be arranged by age of onset, which is interesting.
ONE PHRASE SUMMARIES...

- **Specific Phobia**: Fear of a specific thing (spiders, heights, flying on a plane)

- **Social Anxiety**: Fear of being scrutinized by others

- **Agoraphobia**: Fear of being in crowds/public places

- **Generalized Anxiety Disorder**: Worry about everything all of the time

- **Substance induced**: Think intoxication or withdrawal from almost anything, including medications we prescribe (opioids and benzos)

- **Related to a Medical Condition**: Thyroid, heart, adrenal, respiratory, GI, neurological disorders that cause anxiety.
WHAT ABOUT PTSD AND OCD?

• Used to be called anxiety disorders and share many features with anxiety disorders, but moved to different sections of the new DSM because of some of their other features.

• We will touch on these each separately, but very briefly:
  
  • **PTSD**: Something very bad and life-threatening happens to patient or is witnessed by patient and results in re-experiencing (nightmares/flashbacks), hyper-arousal, avoidance of triggers, and cognitive/emotional blunting.

  • **OCD**: Patient has recurrent ego-dystonic intrusive thoughts AND/OR compulsive thoughts or behaviors meant to reduce intensive thoughts.
THE CASE OF WILBUR

Wilbur is a 38 year old man who presents at the insistence of his wife. Wilbur’s mother lives in a different state and occasionally he wants to visit her, but the most efficient mode of travel is by airplane. Airplanes ALWAYS immediately cause Wilbur intense fear and panic, so he often cancels trips at the last minute. When he doesn’t cancel trips he tries to drive, but if he has to take an airplane he experiences extreme distress which almost always threatens his marriage. He brings a note from his wife, which reads, “He needs Xanax.”
THE CASE OF WILBUR

• What is the **diagnosis**?

• How would you **treat** this individual?
SPECIFIC PHOBIAS

1. Phobic object almost ALWAYS produces IMMEDIATE fear or anxiety.
2. Phobic object is actively avoided or endured with extreme distress.
3. Fear or Anxiety is out of proportion to actual risk.
4. The fear causes social, occupational, relationship, or other impairment.
5. **Common kinds:** Fear of Animals (spiders, dogs, cockroaches) Nature (heights, storms, water), Blood/Injections, Situations (elevators, airplanes, enclosed spaces).
6. 12 month prevalence 7-9% in USA, much lower in under-developed countries (where there are plenty of actual risks to worry about).
7. Most people have more than 1 specific phobia.
8. Age of onset is usually 7-11 years, much less common in older people.
9. F>M 2:1
SPECIFIC PHOBIAS

1. Very limited role of pharmacology.
2. This may be a disorder where an occasional PRN benzodiazepine makes a lot of sense (i.e. someone is afraid to get on an airplane which they have to do once every 6 months).
3. Main-stay of treatment would be working with a psychologist/social worker on Exposure/Response Prevention Therapy.
BONUS POINT!

WHAT SPECIES OF TARANTULA WAS ON THE LAST SLIDE?

MEXICAN RED KNEE TARANTULA
(MY 11 YEAR OLD SON WANTED TO MAKE SURE THAT YOU KNEW THAT)
BEHAVIORAL THERAPIES: EXPOSURE RESPONSE PREVENTION

• The “go to” for phobias and OCD.

• Basically consists of formulized exposures to aversive stimuli paired with prevention of phobic behaviors.

• Can do graduated vs. “flooding” exposures.

• First example: patient has a phobia of heights and you do a flooding exposure where you take him to the top of Sears Tower in Chicago and have him stand on the glass floor.

• Second example: patient has fear of spiders, so you start with pictures of spiders, then a live spider across the room, building up to having patient hold a tarantula.
Brittany is a 22 year old woman who presents with chief complaint of anxiety. She would like to make friends at her new job, but she is terrified of new people. She feels that she always says something “weird” when she has to talk to new people and ends of being sure that everyone thinks she is “stupid.” She has had this problem for at least the last 5 years, first noticing it in high school. It has gotten so bad that she has started missing days of work and she might get fired. She admits that when she does go to work, the only way she can make it through is to put a little vodka in her kale smoothie.
THE CASE OF BRITTANY

• What is the *diagnosis*?

• How would you initially *treat* this individual?
SOCIAL ANXIETY DISORDER
(SOCIAL PHOBIA)

- Extreme fear of social situations
- Fear of humiliation or embarrassment
- Avoidant behaviors
- Anxious anticipation of social situations
- A subtype for people who are only anxious when they talk in front of others

- 12 month incidence 7% in the USA (only 2.3% in Europe)
- F>M 1.5-2.2X
- 75% of people have onset between 8 and 15 years of age.
- Lowest spontaneous remission rates of any anxiety disorder (35%)
SOCIAL PHOBIAS AND SUBSTANCE USE

- Benzodiazepines are good emergent management for PRN usage.

- People with social phobia will often find that alcohol helps, therefore comorbid Alcohol Use Disorder is highest in this group.

“Don’t ask me for stimulants and benzos, just use alcohol and caffeine like the rest of us”

- Bill Meyer
SOCIAL PHOBIA

- First line treatments
  - SSRIS

- Other treatments
  - Pregabalin
  - Gabapentin
  - Benzodiazepines augmentation of SSRIs (especially clonazepam)
  - Buspar has evidence ONLY for augmentation of SSRI treatment
  - Propranolol (only for performance anxiety)
  - MAOIs
  - Antipsychotics: Olanzapine and Quetiapine have evidence, but also side-effects
  - Venlafaxine
  - Valproic Acid (Depakote)
SSRIS IN SOCIAL ANXIETY DISORDER AND OTHER AD

• In studies on SAD, SSRIs have worked with a NNT of between 3 and 7. Need to treat 3-7 people to have one person benefit who would not have benefitted from placebo.

• SSRIs have side effects, commonly: flushing, nausea, and diarrhea (which usually go away when a person gets used to the dose) and sexual side effects (anything from arousal to orgasm) which usually do not go away until the person discontinues the drug.

• Studies indicate that people with social anxiety disorder are more prone to the sexual side effects, probably because they already have so much going against having a fulfilling sexual experience from the get-go.

• SSRIs + anti-inflammatory drugs increase the risk of GI bleeding by 9X (PPIs reduce this risk)
SSRIS IN SOCIAL ANXIETY DISORDER AND OTHER AD

- Paroxetine is most likely to cause weight gain (25% chance of 7% increase compared to <5% chance for other SSRIS).
  - It is category D in pregnancy, known to increase risk of septal defects. It is also the most anti-cholinergic (dryness).
  - Why use it?

- A lot of people with SAD who were switched from SSRI to placebo stayed well. May consider first use of SSRI as a trial and see how a patient does off of it in a couple of months.

- Citalopram increases QTc quite a bit in a dose dependent fashion (this is unfortunate because there is a lot of evidence that higher doses work better in treatment resistant people).

- Lexapro doesn’t seem to increase QTc nearly as much in dose ranges with similar efficacy.
SOCIAL PHOBIA

- Non Pharmacological Strategies:
  - CBT
  - Exposure therapy
  - Drugs + Therapy probably best
COGNITIVE THERAPIES:
AS EXPLAINED BY MARC PORRITT

• Can be used for all anxiety disorders.

• Have patient track anxiety-related and anxiety-producing thoughts.

• Help patient to challenge these thoughts and explore possible alternatives/worse case scenarios.

• May include behavioral exposure scenarios; this is why it is usually called CBT (cognitive behavioral therapy).

• Example: As patient has social anxiety, she imagines that people at the restaurant are looking at her/judging her. Therapist works to challenge these ideas and explore other possibilities (i.e. “What else might they be looking at?”).

  • This therapy might include a trip to the restaurant for practice with therapist.
THE CASE OF SARAH

Sarah is a 28 year old woman. She started having episodes of extreme fear and panic for no clear reason. During these episodes she reports palpitation, sweating, trembling, shortness of breath (feels like she is suffocating), nausea, dizziness, chills, and feelings of numbness and weakness. During these episodes she feels like the world is “not real” and/or that she is going crazy or about to die. She is terrified that she will have a panic attack in public and has stopped going out unless absolutely necessary.
THE CASE OF SARAH

What do you think?
### Panic Disorder

- Sudden unpredictable episodes of severe anxiety typically lasting 30-45 minutes
- Shortness of breath
- Fear of suffocation/dying
- Urgent desire to flee
- Limited activities because of fear of having another attack

<table>
<thead>
<tr>
<th>12 month prevalence 2-3%</th>
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<tbody>
<tr>
<td>Native Americans have highest rates</td>
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<td>F&gt;M 2:1</td>
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<td>Usual age of onset 20-24 years; very rare in childhood</td>
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</table>
PANIC ATTACK SPECIFIER

- DSM 5 recognizes that panic attacks can be part of any anxiety disorder or of other mental illnesses, or of regular life.

- Panic attacks can be precipitated or un-precipitated.

- Let me tell you about my most recent panic attack...reminds me that anxiety is the body’s alarm system. Sometimes something is wrong!
Emergency Management

- Benzodiazepines work quickly, but panic usually returns when Benzos are withdrawn.

- Some guidelines recommend against using in Panic Disorder because of addiction potential and because patients don’t get better over time.

- Panic disorder patients will have a hard time getting off of Benzos...
  - 75% will not be willing to come off of Alprazolam (Xanax), 25% could not get off of Clonazepam (Klonipin)
PANIC DISORDER

First Line treatment

• **Selective Serotonin Reuptake Inhibitors**
  • Action is usually delayed and they can initially worsen symptoms.
  • May consider starting at 1/2 the normal starting dose (suggested by some)

• **Other treatments**
  • Mirtazapine (Remeron)
  • TCA’s
  • Valproic Acid (Depakote)
  • Venlafaxine (Effexor)
  • Gabapentin
PANIC DISORDER

Non-Pharmacological treatment

• CBT

• Relaxation training

• Evidence is that therapy + meds is NOT better than either alone
THE CASE OF WINIFRED

25 year old woman who lives in Salt Lake City and works as a paralegal for a law firm about 3 miles from her apartment. She has recently noticed that she dreads taking Traks to work everyday and has instead started to walk. However, she notices that even when walking, if the sidewalk gets too busy she nearly has a panic attack and is afraid that she will not be able to get away or get help in case she starts to look or act "crazy." She has started calling in sick from work and now will get anxious just leaving her apartment. Her sister had to nearly drag her to your office for an evaluation.
THE CASE OF WINIFRED

What do you think?
AGORAPHOBIA

• Fear of at least two of the following:
  • Using public transportation
  • Being in open spaces
  • Being in enclosed places
  • Standing in line or being in a crowd
  • Being outside of home alone

• Patient fears having a panic attack, falling, losing control of bladder function, or some other embarrassing or debilitation symptoms and not being able to get out or get help.

• The agoraphobic situation almost always provokes fear or panic.

• Lasts 6 months or more.

• Fear out of proportion to actual risk (think about someone who really does have fecal incontinence, for example).
AGORAPHOBIA - INTERESTING TIDBITS

• Used to be a subtype of Panic Disorder, and very frequently a patient will have panic attacks first and then develop agoraphobia.

• 1.7 % 12 month prevalence.

• Much more rare in people over 65.

• 2/3 of cases onset before 35, but there is a significant peak after 40.

• Mean age of onset is 17.
  • If proceeded by panic disorder, age of onset is 25-30.

• F>M 2:1
Agoraphobia Treatment

Similar to Panic Disorder, as far as I can tell.

Has not been a clinical entity for very long and therefore not a lot of separate dedicated research into this problem specifically.
THE CASE OF AGNES

Poor Agnes has always been anxious. She worries about everything, all of the time. She reports feeling restless and always “on edge.” She is frequently tired. She complains of her mind going blank and difficulty concentrating. She finds herself feeling irritable and snapping at grandchildren. She has a hard time sleeping. She also feels depressed...
GENERALIZED ANXIETY DISORDER

- Irrational worries
- Muscle tension
- Somatic symptoms (tachycardia, hyperventilation, diarrhea)
- Often co-morbid with MDD and OCD
- 12 month prevalence 1.7% - 3.4%
- F>M 2:1

- More common in people of European descent
- Developed countries > non-developed countries
- Median age of onset is 30, but wide range.
- Earlier onset = more comorbidity
- Remission rates are low
GENERALIZED ANXIETY DISORDER

Emergency Treatment: anxious distress, insomnia, suicidal ideation/risk

- Benzos for 2-4 weeks max (again, some benzos easier to get people off of than others)
- May consider antipsychotics
GENERALIZED ANXIETY DISORDER

• SSRIs: Note in GAD, SSRIs can sometimes initially make symptoms worse and patients should be started on HALF of the normal dose.
  • Think “how is a person who worries about everything going to deal with a medication that causes strange sensations in his/her body?”
  • Fluoxetine and Sertraline have the best evidence.

• This is a place where Hydroxyzine may be a really good choice for augmentation (rather than getting patient on Benzos; European studies are promising...)

• Others meds with evidence: SNRIS (Venlafaxine and Duloxetine), Mirtazapine, Pregabalin (approved in Europe)

• You could also try:
  • Buspar (takes a while to work)
  • Beta blockers for somatic symptoms (tachycardia)
  • Quetiapine
  • TCA’s
GENERALIZED ANXIETY DISORDER

Non-Pharmacological treatment:

• Reassurance
• Pastoral counseling/supportive therapy
• CBT (cognitive behavioral therapy)
• Relaxation
• Exposure therapies
• EXERCISE!
ACCEPTANCE AND COMMITMENT THERAPY

- Interventions intended to change the way an individual relates to their thoughts and experience, instead of extinguishing behaviors (behavioral therapy) or changing thoughts (cognitive therapies).

- A patient does not try to “get rid” of anxiety, but instead tries to live a life in alignment with their values “in spite” of the anxiety.

- Reinforcing value based behaviors and not illness related behaviors.

- For example, A patient with Panic Disorder stays in the house out of fear that he will have a panic attack. A therapist would teach the patient to become mindful of anxiety symptoms and leave the house in spite of having those feelings ACCEPTING that he may have a panic attack but still COMMITTING to living a life that he values.
PSYCHODYNAMIC THERAPY

• This therapy postulates that people are largely driven by unconscious needs and conflicts.

• Understanding what is going on at a subconscious level (bringing it to consciousness) helps people to have INSIGHT into these issues and allows them to be “more rational actors in the drama of their lives.”

• For example: a patient with GAD worries about everything. He works with a therapist for 1-2 years and explores his childhood/relationship with parents and realizes that his current insecurities are related to attachment with mother and father. He learns to accept and forgive himself for mistakes he has made and realizes that he “tried his best.”
SEXUAL SIDE EFFECTS

If a patient has sexual side effects in the setting of an anxiety disorder, consider:

1. Mirtazapine (Remeron)

2. Gabapentin or Pregabalin (Lyrica)

3. Nefazodone
   - Risk of fatal/transplant necessary liver failure is 1/300,000 which is enough to have it frowned upon and withdrawn from many global markets. (Compare this to the risk of dying in a motor vehicle accident in a year which is ~1/10,000.)
Benzos: A Short History

Chlordiazepoxide (Librium) first synthesized in 1955 by accident.

Started being marketed in 1960 with Valium being a huge hit for Hoffmann La Roche in the Wild West days of direct-to-consumer advertising.

Valium was aggressively marketed (especially to housewives) as a safe, non-addictive way to manage the stresses of life.

Valium and other benzos do have the advantage of being relatively safe compared to their barbiturate ancestors. Think of Marilyn Monroe’s overdose...in comparison it is hard to kill yourself with benzos alone.
MOST POPULAR BENZOS (2011)

Alprazolam (Xanax): 49 million prescriptions
Lorazepam (Ativan): 27.6 million prescriptions
Clonazepam (Klonopin): 26.9 million prescriptions
Diazepam (Valium): 15 million prescriptions
Temazepam (Restoril): 8.5 million prescriptions
# Most Popular Benzoes (2011)

<table>
<thead>
<tr>
<th>Benzoe</th>
<th>How much = 1 mg of Lorazepam?</th>
<th>Time to peak Plasma concentrations (hrs)</th>
<th>Half Life (hrs)</th>
<th>How fun are they to use as rated by addicts (0-100)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lorazepam (Ativan)</td>
<td>1 mg</td>
<td>0.5 – 1</td>
<td>8 – 24</td>
<td>75</td>
</tr>
<tr>
<td>Diazepam (Valium)</td>
<td>5 mg</td>
<td>1 – 2</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>Alprazolam (Xanax)</td>
<td>0.5 mg</td>
<td>1 – 2</td>
<td>12 (rapid on/off)</td>
<td>70</td>
</tr>
<tr>
<td>Chlordiazepoxide (Librium)</td>
<td>25 mg</td>
<td>1 – 4</td>
<td>100</td>
<td>32</td>
</tr>
<tr>
<td>Clonazepam (Klonipin)</td>
<td>0.25 mg</td>
<td>1 – 4</td>
<td>30</td>
<td>Unknown</td>
</tr>
</tbody>
</table>
PHARMACOLOGICAL THINGS OF INTEREST

Both diazepam (Valium) and chlordiazepoxide (Librium) are changed to Desethyl Diazepam (active metabolite) and then to Oxazepam in the liver.

Clonazepam is nitro-reduced in the liver.

Lorazepam, Oxazepam, and Temazepam are only glucuronidated in the liver, which takes a lot less liver to do (safer in people with liver disease).
A Shout Out to Tricyclic Antidepressants!

These are oldies but goodies. Imipramine was the first antidepressant, very closely related to early antipsychotics.

First the bad news: They are deadly in overdose (mess with cardiac sodium channels), are very likely to cause histaminergic effects (sleepy and hungry), anti-cholinergic effects (dryness, urinary retention, delirium), and orthostatic hypotension.

The good news: These have been shown to be some of the most effective antidepressants, especially as people get older (almost no efficacy in kids, work great in old people except for side effects). They are cheap. You can usually add them, in low doses, to other antidepressant therapy.

If you have a patient who has chronic pain, insomnia, or headaches in addition to depression or anxiety, try a low dose amitriptyline or nortriptyline at night. They might love you for it.

Other notable tricyclics...
- Chlomipramine: very, very serotonergic; gold standard for treatment of OCD.
- Doxepin: recently rebranded as a sleep aid Silenor®, but you can very cheaply give generic 10mg Doxepin for sleep as it is not addictive and most patients don’t yet know that it doesn’t work for them (if they only want benzos/Ambien).
A SHOUT OUT TO MIRTAZAPINE

It boosts transmission of serotonin and norepinephrine and also dopamine in the frontal cortex, but is not a reuptake inhibitor, does not increase serotonin, and has no potential to cause serotonin syndrome.

For this reason, it does NOT cause sexual dysfunction.

It is very anti-histaminergic, but not anticholinergic.

Main side effects are sedation and weight gain. Sedation is often desirable in anxious populations.

It is very good for sleep, anxiety, nausea, and actually a quite good antidepressant.

Use it.
SUBSTANCE USE RELATED ANXIETY DISORDER

• Intoxication with: alcohol, caffeine, PCP, hallucinogens, inhalants, stimulants

• Withdrawal from: alcohol, opioids, sedatives, hypnotics, anxiolytics, and even stimulants

• Medications: bronchodilators, anticholinergics, insulin, thyroid medications, oral contraceptives, antihistamines, antiparkinsonian meds, corticosteroids, antihypertensive, anticonvulsants (Keppra), antipsychotics (aka kathisia) and almost anything else

• Environmental: heavy metals, insecticides, carbon monoxide, gasoline
Many people who struggle with addiction and who are in recovery have a very difficult time recognizing and tolerating painful emotions such as anxiety.

This comes for at least these reasons:

- Drug abuse has powerful emotionally stunting abilities (Emotional age is usually = to age when patient started using)
- People who are drawn to drug abuse may have been less able at baseline to deal with emotions than peers who were not drawn to substances
- Substance use and withdrawal can increase anxiety tremendously
- The go-to coping strategy for people with substance use problems is to take something that makes them feel better

If you are working with someone who is recovering from a substance use disorder, you will end up treating a lot of ANXIETY and INSOMNIA.
INSOMNIA

Insomnia is so prevalent amongst people with anxiety disorders that it is worth talking about for a moment.

• Insomnia is usually not the primary problem. It is usually a symptom of another problem, many times related to anxiety, depression, bipolar illness, psychotic illness, substance abuse, or a medical issue.

• Insomnia can take on a life of its own as a person worries about whether or not they can get to sleep, and in that sense it becomes its own anxiety disorder.

• As discussed earlier, not sleeping is a significant risk factor for suicide, so it is worth treating.

• Some people with TBI and other rare medical conditions have primary insomnia that is difficult to treat and is beyond the scope of this discussion.
CBT-I
COGNITIVE BEHAVIORAL THERAPY FOR INSOMNIA

Over the long run, most people would benefit most from CBT-I.

• CBT-I is widely available in digital (app) formats, workbooks, and there are a lot of free handouts on the internet.

• CBT-I has cognitive components, including setting realistic expectations (a 70 year old woman is not supposed to sleep like a 13 year old girl) and de-catastrophizing (getting poor sleep for one night is okay).

• CBT-I also has behavioral components, which are broadly SLEEP HYGIENE, RELAXATION TRAINING, and SLEEP RESTRICTION.
# If You Have to Use Medications, Here Are Some Thoughts:

<table>
<thead>
<tr>
<th>Agent</th>
<th>How It Works</th>
<th>Pros</th>
<th>Cons</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>Belsonora® Suvorexant</td>
<td>Orexin receptor antagonist</td>
<td>Less addictive than others. Reduces time to sleep by 6 minutes, increases duration of sleep by 16 minutes.</td>
<td>Next day drowsiness, temporary paralysis. Expensive. Schedule IV. Some risk of dependence.</td>
<td>As far as I am aware, no head-head studies with others. Will set you back at least $350/month</td>
</tr>
<tr>
<td>Rozerem® Ramelteon</td>
<td>Melatonin receptor agonist</td>
<td>Found to prevent delirium compared to placebo. Limited abuse potential. It is not sedating.</td>
<td>Expensive, and on-average experience is mediocre. Can increase depression/suicidal thoughts.</td>
<td>At least $390 dollars a month. Someone still needs to explain to me why I would take this instead of melatonin.</td>
</tr>
<tr>
<td>Melatonin</td>
<td>Tells your brain that it is time to go to sleep</td>
<td>Cheap, quite safe.</td>
<td>Limited efficacy. Is not sedating.</td>
<td>Available OTC. Why not try it first?</td>
</tr>
<tr>
<td>Ambien® Zolpidem</td>
<td>Binds to GABA receptors. Short half-life 2-3 hours.</td>
<td>People like it a lot. Safer with less abuse potential compared to benzos. $10/month</td>
<td>Cognitive effects, increased risk of falls/fractures. Rare sleep behavior disturbances. Rebound insomnia.</td>
<td>Women should take 5mg, men 10. As with all sleep meds, people will eventually habituate to it.</td>
</tr>
<tr>
<td>Lunesta® Es-zopiclone</td>
<td>Binds to GABA receptors</td>
<td>Peaks in .45 to 1.3 hours, half-life 6 hours.</td>
<td>Same as above, but with less reports of sleep behavioral issues.</td>
<td>$25/month</td>
</tr>
<tr>
<td>Sonata® Zaleplon</td>
<td>Binds to GABA receptors</td>
<td>Very short half-life (less than an hour) makes it less likely to affect you the next day. Can repeat dose</td>
<td>Same as above</td>
<td>$17/month</td>
</tr>
<tr>
<td>CLASS: Drugs</td>
<td>PROS</td>
<td>CONS</td>
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<tr>
<td><strong>1ST generation antihistamines:</strong> Doxylamine (Unisom®) or Diphenhydramine (Benadryl) or Hydroxyzine</td>
<td>Cheap, OTC. Antihistamine that crosses blood brain barrier, reduces histamine-mediated inflammation (allergic reactions)</td>
<td>Antihistamines cause increased hunger and weight gain. These medications are extremely anticholinergic (dryness, mental slowing, and delirium). Hang-over effect the next day.</td>
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<tr>
<td>Trazodone Desyrel</td>
<td>Cheap. Relatively safe. Not habit forming. Use 25-100mg a night. I use it all of the time. Unlikely to hurt anyone.</td>
<td>Orthostatic hypotension. Has not been shown to be super effective. Priapism is a very rare side effect, but one you want to warn males about. Not really an antidepressant at these doses.</td>
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<tr>
<td>Mirtazapine Remeron</td>
<td>Pretty cheap. Not habit forming. Good antidepressant at higher doses, better for sleep at lower doses. Less likely to cause sexual dysfunction compared to other antidepressants.</td>
<td>Has not been shown to work for outside of the setting of depression. Anticholinergic (dry mouth, constipation). Weight gain.</td>
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<tr>
<td>Tricyclics (amitriptyline Elavil)</td>
<td>Very cheap. Not habit forming. Very effective especially for older patients with severe depression (paradox is that these patients are most likely to be harmed by side effects). Work well for pain (migraines).</td>
<td>Orthostatic hypotension, weight gain, and quite anticholinergic (therefore dryness and delirium-potentiating). Cardiac toxicity in overdose.</td>
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<tr>
<td>Doxepin Slanor</td>
<td>A very very anti-histamnergic tricyclic antidepressant. Not habit forming. Used at very low doses it promotes sleep. It has been FDA approved for insomnia (Slanor $300+/ month) or you can give generic Doxepin 10mg for $11/ month)</td>
<td>Cardiac toxicity is an issue, but when prescribing this low of a dose, even if patient takes whole bottle they are only getting ~2 doses of an effective antidepressant dose.</td>
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<tr>
<td><strong>Benzodiazepines</strong></td>
<td>Anxiolytic, sedative, myorelaxant, amnestic properties. Much safer than barbiturates in overdose (will not themselves cause respiratory depression).</td>
<td>Habit forming. Tolerance and potentially fatal withdrawal syndrome (similar to alcohol), increase risk of falls in elderly, increased risk of dementia in those who take them regularly. AVOID in people with history of substance abuse.</td>
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<td>(Tenazepam Restoril/Lorazepam Ativan Diazepam Valium)</td>
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<td><strong>Antipsychotics (Seroquel, Risperdal, olanzapine)</strong></td>
<td>Not habit-forming. Patients don’t like to take. Are meant to be used in people who are psychotic. Can be used for very psychiatrically ill patients with a variety of problems and have evidence in augmentation of antidepressants, bipolar depression, severe OCD, severe anxiety, and any disorder where psychotic or nearly psychotic - RUMINATIONS are part of the picture.</td>
<td>Some are expensive. Very extensive metabolic and extra-pyramidal side effects. Not to be used.</td>
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<tr>
<td><strong>Anticonvulsants (Gabapentin)</strong></td>
<td>Can be good for everything. Pain, anxiety, insomnia. Good for substance abusers. Almost no problems caused by intentional or unintentional overdose.</td>
<td>Not that great for sleep, but help anxiety which can worsen sleep.</td>
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