DRUG CARDS DAILY

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NAME(S): Generic: alprazolam (al PRAY zoe lam) | Brand: Xanax

PHARMACOLOGIC & THERAPEUTIC CLASS: Benzodiazepine | Hypnotic

DOSAGE FORM & STRENGTH: Tabs: 0.25 mg, 0.5 mg, 1 mg, 2 mg | ODT: 0.25 mg, 0.5 mg, 1 mg, 2 mg | ER Tabs: 0.5 mg, 1 mg, 2 mg, 3 mg | Concentrate: 1 mg/mL

INDICATION(S) & DOSING(S): ADULTS

- 1. **Generalized anxiety disorder:** Acute tx. Tx range 0.25-0.5 mg PO tid. Initiate 0.25 mg PO tid. Dose inc every 3-4 days to a max of 4 mg/day.
- 2. **Panic disorder:** For <u>IR dosage form</u> the tx range is b/t 0.5-3 mg PO tid. Initiate 0.5 mg PO tid. Dose inc up to 1 mg/day every 3-4 days. For the <u>ER dosage form</u> the tx range is b/t 3-6 mg PO qd. Initiate 0.5-1 mg PO qd. Dose inc by 1 mg/day every 3-4 days. Do not crush/chew ER formulation.
- OFF LABEL | Vertigo: Initiate 0.5 mg q 8 h prn.

INDICATION(S) & DOSING(S): PEDIATRICS

• OFF LABEL | **Anxiety**: Limited data. For children 7 years of age and older. Tx range 0.125-0.25 mg PO tid. Initiate 0.125 mg PO tid. Dose inc 0.125 mg/dose every 3-4 days with a max of 3.5 mg/day.

MECHANISM OF ACTION & PHARMACOLOGY

MOA: Alprazolam increases the inhibitory effect of GABA on neurons causing increased neuronal membrane permeability of chloride ions resulting in the less excitable state of hyperpolarization creating stabilization. There is a binding to postsynaptic GABA neuron at stereospecific benzodiazepine receptors affecting multiple locations of the CNS such as the limbic system. Effects appear to be linked to GABA-A receptors and not GABA-B receptors. | Medication is rapidly absorbed. | Hepatically metabolized into two active metabolites (4-hydroxyalprazolam, alpha-hydroxyalprazolam) and an inactive metabolite (benzophenone) via CYP3A4 pathway.
| Excreted in the urine as the unchanged drug as well as the metabolites. | Time to Peak for IR is 1-2 hours. ER is ~9 hours and dec by 1/3rd if taken with high-fat meal and inc by 1/3rd if taken 1 hour or more after a high fat meal. ODT is 1.5-2 hours but ~15 min if taken w/ water. Inc to ~\$ hour if w/ high fat meal. | Half-Life Elimination in adults is ~11.2 hours when taking the mean of IR & ER. IR is 6.3-26.9 hours. ER is 10.7-15.8 hours. ODT mean is 12.5 hours. In obese pts 21.8 hours. Elderly 16.3 hours. Pts w/ alcoholic liver dz 19.7 hours. | 80% protein bound primarily to albumin.

SPECIAL POPULATIONS & CONSIDERATIONS

Asian Americans: Max conc ↑15% and half-life elimination ↑25%. | Smokers: Conc ↓50%. | Elderly: When initiating consider starting at the lower end of the dosing range and lower dose inc tapers. | Discontinuing Therapy: Taper dose no more than 0.5 mg/day every 3 days (Adults & Peds). | Renally Impaired: No adjustments. | Hepatically Impaired: Consider dose freq and dose strength adjustments. For example, initiate 0.25 mg PO bid-tid for IR. If ER initiate 0.5 mg PO qd. | Contraindications & Cautions: Avoid abrupt w/d; caution if CNS depression, alcohol use, hx of seizures, depression, changes in smoking habits, if elderly/debilitated, and pts w/ pulmonary impairment. | Pregnancy: Consider alternative. Risk of teratogenicity, neonatal w/d, floppy



infant syndrome. | Lactation: Limited data. May consider short-term use. Monitor infant closely. Risk of infant CNS depression.

SIDE EFFECTS

- **Common**: Hypotension, dizziness, irritability, impaired coordination, libido changes, menstrual irregularities, etc.
- Serious: Seizures, dependency, abuse/misuse, tachycardia, syncope, angioedema, suicidality, etc.

BLACK BOX WARNING: (1) <u>Risk from Concomitant Opioid Use</u> – Risk of respiratory depression, coma, death, & profound sedation. Limit to min dose/duration and monitor for s/sx of respiratory depression and profound sedation. (2) <u>Addiction/Abuse/Misuse</u> – Risk of addiction/abuse/misuse which can lead to overdose/death especially when used w/ other meds associated with poor outcomes such alcohol or drugs of abuse. Assess for addiction/abuse/misuse. (3) <u>Dependence/Withdrawal Reactions</u> – Extended/continuous use may lead to physical dependence and risk of dependence/withdrawal. Gradual taper if discontinuing long term usage. Avoid rapid dose cessation to avoid w/d and life-threatening reactions.

DRUG INTERACTIONS

- Considerations for DI: CYP3A4 substrate/inhibitor, CNS depression, & hypotensive effects.
- Contraindicated drugs: Atazanavir, clarithromycin, ketoconazole, nefazodone, and others.
- **Some drugs of note:** Amiodarone, buprenorphine, butalbital, cat's claw, cimetidine, danazol, 5-HTP, amitriptyline, cetirizine, citalopram, clozapine, colchicine, nortriptyline, and others.

MONITORING PARAMETERS

• S/sx of abuse/misuse/addiction, LFTs if prolonged usage

PATIENT COUNSELING INFORMATION

- Alprazolam is used to treat anxiety disorders, anxiety caused by depression, and panic disorders.
- Extended release tablets are intended to be taken whole and are not to be broken, crushed, or chewed.
- If a dose is missed take it as soon as you can unless it is almost time for the next dose.
- Can slow/stop breathing if recently used opioid, alcohol, or other drugs than can slow breathing.
- Should not take alprazolam if taking **ketoconazole** or **itraconazole** or if you have **breathing problems** such as COPD or sleep apnea. Also do not use if patient has **drug or alcohol addiction** or **suicidal thoughts or behaviors**.

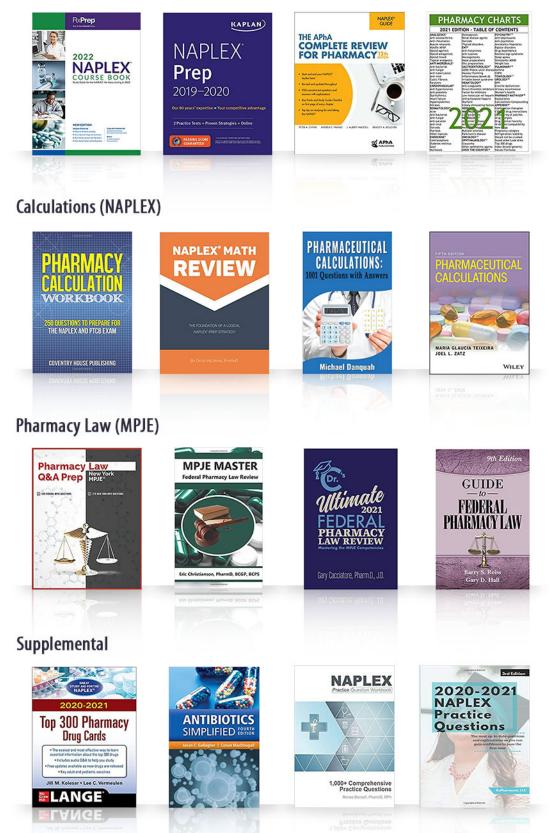
REFERENCE(S) & RESOURCE(S)

- 1. https://online.epocrates.com/drugs/13010/alprazolam/Monograph
- 2. https://www.drugs.com/ppa/alprazolam.html
- 3. https://www.webmd.com/drugs/2/drug-8171-7244/alprazolam-oral/alprazolam-oral/details
- 4. <u>https://www.medscape.com/content/2003/00/45/67/456734/456734_tab.html</u>



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DRUG CARDS D A I L Y

Monday at 7 am EST (6 am CST, 4 am PST)

HEY NEW GRAD!

So you landed that perfect job offer or got the perfect match for your PGY1 and now the <u>ONLY</u> thing standing in your way is passing the NAPLEX and MPJE.

Here are some NAPLEX & MPJE prep recommendations to help you do everything you can to **pass the first time!**

HEY STUDENT!

When I was P1 one of the best pieces of advice I got from those before me was to use a NAPLEX Prep book while learning each topic.

This helps focus your learning and the repetition helps to retain info and indirectly prepare you for the NAPLEX

