




ANXIETY DISORDER MEDICATION Comparison Chart

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Generic/TRADE	Class	Side effects (SE)	Anxiolytic Uses ^{1,2,3,4}	Comments (✓ = therapeutic use)	INITIAL & MAX DOSE	USUAL DOSE RANGE	\$  /Month
Alprazolam XANAX (0.25 ⁵ ,0.5 ⁵);(1 ⁵ mg tab;TS 2 ⁵ mg) x [✓]	Triazolo	Drowsiness (tolerance develops), dizziness , ↓ concentration, anterograde amnesia, ↑ traffic	PD PDA GAD SAD	✓Anxiety, Panic attacks Severe withdrawal & some ? antidepressant effect	0.25mg 4-10mg	0.25mg po tid 0.5mg po tid	16 17
Clonazepam RIVOTRIL (0.25x [✓] ,0.5 ⁵ ,1,2 ⁵ mg tab)	Nitro	accidents , physical dependence & rarely paradoxical anger or hostility .	GAD SAD	✓ Anticonvulsant, Panic attack Other uses: sedative , social phobia & akathisia acute mania & neuralgic pain	0.25mg 10-20mg	0.5mg po tid 1mg po bid 2mg po tid	16 21 21
Lorazepam ATIVAN (0.5,1 ⁵ ,2 ⁵ mg tab; 0.5,1,2mg sl ^x tab;4mg/ml amp ^x)	3- Hydroxy # Benzodiazepine	Alprazolam Level ↑ by: fluvoxamine,grapefruit juice, ketoconazole,nefazodone; Alprazolam Level ↓ by: theophylline	(Fast acting , rebound anxiety)	✓ Anxiety, Preanesthetic Other: sedative , muscle relaxant, alcohol withdrawal; ↓ DI's , ✓Status epilepticus (slower onset, but longer duration vs diazepam)	0.5mg 10mg	0.5mg po tid 1mg po tid 2mg po tid	11 12 14
Buspirone BUSPAR (5,10 ⁵ mg tab)	Azapirone 5 HT _{1A} agonist	Nausea, headache, dizziness, restlessness (non-sedating) Onset 1week; Max effect 6 weeks	GAD (Delayed onset)	✓ Anxiety in Bz naive pt. ;Other:alcohol withdrawal Non-addicting , DI-fluvoxamine,grapefruit juice; NO dependency , No cross tolerance with benzo's	5mg 60-90mg	5mg po tid 10mg po tid-qid	50 53-69
Hydroxyzine ATARAX (10,25,50mg cap,2mg/ml syr);(50mg amp ^x)	Antihistamine	Drowsiness , sedation, headache, weakness, anticholinergic,↓ cognition	Anxiety but ↑ SE's: ..not recommended	✓ Sedative/hypnotic, anti-pruritic Tolerance to efficacy	10mg 400mg	25mg po tid 50mg po tid	14 15
MAOIs:non-selective & irreversible; ✓ atypical depression/ refractory PD/PDA/OCD ; enzyme effect ~10day; many DIs & food cautions(tyramine-hypertensive crisis); phenelzine NARDIL 15mg tab;tranylcypromine PARNATE 10mg tab							
Moclobemide MANERIX (100 ⁵ ,150 ⁵ ;300 ⁵ mg tab)	RIMA	Dry mouth, dizzy, headache, nausea, restless, tremor, insomnia, less sexual dysfunction, insomnia	SAD	* no dietary tyramine precaution,enzyme effect lasts ~24hrs ,selective & reversible enzyme inhibitor; DI :dextromethorphan,meperidine,symphathomimetic	100mg bid 600-900mg/d	150mg po bid pc 300mg po bid pc	26 58
Propranolol INDERAL (10 ⁵ ,20 ⁵ ,40 ⁵ ,80 ⁵ & 120 ⁵ mg tablet; LA 60,80,120 & 160mg); (Vial 1mg/ml ^x)	Beta blocker	Hypotension ,bronchospasm,fatigue Contraindicated:asthma, bradycardia Caution: diabetes Consider: Atenolol 25-100mg 60-90 min before task	SAD Anxiety	Other uses: aggression (impulsive outbursts), akathisia , lithium tremor, performance anxiety , panic, stage fright; ✓BP, Angina, Post MI, Arrhythmias ✓Atrial Fib, Migraine headache prophylaxis	10-40mg bid (10-80mg 30- 90min B4 task) 320mg/d	20mg po bid 40mg po bid 80mg LA po od	10 10 25
SSRI'S: Citalopram =CC CELEXA (20, 40mg scored tabs) Fluoxetine = F PROZAC (10,20,40x [✓] mg cap & 4mg/ml soln) Fluvoxamine =X LUVOX (50 ⁵ ,100 ⁵ mg tab) Paroxetine = P PAXIL (10 ⁵ ,20 ⁵ ,30mg tab) Sertraline = S ZOLOFT (25,50,100mg cap) Nefazodone =Z SERZONE (50,100mg tab) MISCONTINUED	SSRI'S (not too useful for specific phobias)	SSRI'S SE in General (GI & CNS) nausea {21%(F) - 36%(X)}, anxiety, insomnia {~14%}, agitation, anorexia, tremor somnia {11-26%}, sweating, dry mouth, headache, dizziness, diarrhea {12%(F,P)-17%(S)}, constipation {13-18%} sexual dysfx. ^{5,6} , D/C Syndrome Z =as above plus ↓ BP,nausea,constip., dizziness, rare hepatotoxicity Serotonergic syndrome with MAOI -↓BP, tremor,agitation, hypomania	PD F,P,S PDA P,S PTSD P,S OCD F,P,S,X SAD/GAD P,S	CC -few drug interactions F -most anorexic & stimulating F -long half-life (5 week washout) X -most nausea ,constipating & sedating SSRI, ↑DI's P -most anticholinergic of SSRI's •↑weight & D/C reaction possible ⁹ S -most diarrhea & male sexual dysfx of SSRI's S -few drug interactions , ?benefit in heart dx pts ¹⁰ Z - least stimulating 5HT, less wt gain; less sex dysfx. -flat dose response curve for depression ; however titration to high doses sometimes required for treatment of anxiety (start low, aim high).	CC 10-20mg am 60mg/d F 10-20mg od 80mg/d X 25-50mg hs 300mg/d P 10-20mg am 60mg/d S 25-50mg am 200mg/d Z 50-100mg bid 600mg/d	20mg po od 40mg po od 20mg po od am 40mg po od am 100mg po hs 150mg po hs 20mg po od am 40mg po od am 100mg po od cc 100mg po bid cc 100mg po bid 300mg po hs	29 29 28 49 33 45 32 57 34 61 36 36
Tricyclic Antidepressants Clomipramine =Cl ANAFRANIL (10, 25, 50mg tab) Imipramine =I TOFRANIL (10, 25, 50, 75x [✓] mg tab) Desipramine =D NORPRAMIN (10, 25, 50, 75, 100mg tab)	TCA's	CNS effects (agitation on initiation of therapy, confusion, drowsiness, headache, tremors, seizures), anticholinergic effects (dry mouth, blurred vision, constipation etc.); nausea, sweating, rash, cardiovascular effects (↑ heart rate, arrhythmias, orthostatic hypotension); anorgasmia	PD PDA PTSD GAD OCD-esp.Cl SAD	May ↑ effect of anticholinergic & CNS meds. May take 2-3 months for maximum effect. clomipramine for OCD b/c most 5HT agent. Fatal (≥2gm) overdose → to heart & CNS •desipramine generally better tolerated than clomipramine & imipramine & has most NE activity & the least anticholinergic activity • trough plasma levels can be drawn	10-25mg 300mg	Cl 150mg po hs Cl 200mg po hs I 150mg po hs I 200mg po hs D 150mg po hs D 200mg po hs	51 65 40 51 41 53
Venlafaxine EFFEXOR (Reg. 37.5 ⁵ , 75 ⁵ mg tab -Co D/C Jul04) (XR 37.5,75,150mg caps)  (contents of XR may be sprinkled)	SNRI 5HT & NE (also some DA)	•As dose ↑: ↑BP , agitation, tremor, sweating, nausea {~37%}, sleep disturbances, headache,“clean TCA” •side effects similar to SSRIs	GAD/SAD ? PD	• less weight gain; few drug interactions •adjust dose for ↓ renal function •caution: withdrawal syndrome (e.g. agitation, nausea, fatigue, dizziness, headache, etc.)	18.75-37.5mg bid 375mg/d	37.5-75mg bid cc 75mg XR po daily 150mg XR po daily 225mg XR od (if 2-3 cap)	63-119 65 68 126-181

Benzodiazepines: D/C gradually to avoid rebound anxiety, avoid in pregnancy & in patients with a history of drug abuse, dose ↑ is rare in patients taking bz's for anxiety, use ↓ dose in elderly. **Pt**=patient **x** Non-formulary Sask
Drugs ↑ anxiety Sx: amphetamines,antipsychotics,anticholinergic-toxicity,caffeine,cocaine,dapsone,digitalis-toxicity,dopamine,ephedrine,isoniazid,levodopa,lidocaine,methylphenidate,nicotinic acid,phenylephrine,pseudoephedrine,salbutamol,SSRI's,steroids & theophylline; plus **Withdrawal** from anxiolytics/sedatives,ethanol&narcotics.
Pregnancy category¹¹: **B**→bupropion, buspirone & sertraline **C**→citalopram, clomipramine, desipramine, **fluoxetine** (has most clinical experience), fluvoxamine, hydroxyzine, MAOI's, nefazodone, **paroxetine**-inactive metabolites & venlafaxine.
GAD=generalized anxiety dx¹² **OCD**=obsessive compulsive dx **PD**=panic dx **PDA**=panic dx with agoraphobia **PTSD**=post traumatic stress dx **SAD**=social anxiety dx; **BP**=blood pressure **DI**=drug interaction **Dx**=disorder
=↓ dose for renal dysfunction **ç**=scored tablet **✓**=covered by NIHB **⊗**=not covered by NIHB

¹ Therapeutic Choices 4th Edition, 2003

² Ontario Guidelines for the Management of Anxiety Disorders in Primary Care Fall 2000 1st Edition

³ Micromedex 2004

⁴ **Treatment Guidelines:** Drugs for Psychiatric Disorders. **The Medical Letter:** July, 2003; p. 69-76.

⁵ Modell JG, Katholi CR, Modell JD, et. al. Comparative sexual side effects of bupropion, fluoxetine, paroxetine, and sertraline. *Clin Pharmacol Ther* 1997;61(4):476-87.

⁶ Gonzalez M, Llorca G, Izquierdo JA, et.al. *J Sex Marital Ther* 1997;23(3):176-94.

⁷ Grinage BD. Diagnosis and management of post-traumatic stress disorder. *Am Fam Physician*. 2003 Dec 15; 68(12): 2401-8.

⁸ Asnis GM, Kohn SR, Henderson M, Brown NL. SSRIs versus Non-SSRIs in Post-traumatic Stress Disorder : An Update with Recommendations. *Drugs*. 2004;64(4):383-404.

⁹ Which SSRI? *Med Lett Drugs Ther*. 2003 Nov 24;45(1170):93-95.

¹⁰ Glassman AH, O'Connor CM, Califf RM, et al.; Sertraline Antidepressant Heart Attack Randomized Trial (SADHEART) Group. Sertraline treatment of major depression in patients with acute MI or unstable angina. *JAMA*. 2002 Aug 14;288(6):701-9.

¹¹ Briggs GG, Freeman RK, Yaffe SJ. *Drugs in Pregnancy and Lactation* 6th Ed. Williams & Wilkins, Media, Pennsylvania, 2002.

¹² Fricchione G. Clinical practice. Generalized anxiety disorder. *N Engl J Med*. 2004 Aug 12;351(7):675-82.