Toolbox for Treatment of Primary Insomnia John Hayes, CRNP

Classification	Brand Name	Generic Name	Dose Range (mg/day)	Half-life (hours)	Time to Effect	Adverse Effects	Comments	FDA Approval for Insomnia
Benzodiazepines	Alprazolam	Xanax	0.75 - 10	12 – 15	<30 minutes (min)	Tolerance Withdrawal Seizure Anterograde amnesia	Longer half life in elderly patients Dose adjustments for hepatic disease	No
	Clonazepam	Klonopin	0.5 – 4	30 - 40	<30 min	Same	Longer half life in elderly patients Dose adjustments for hepatic disease	No
	Diazepam	Valium	2 - 40	20 - 80	<30 min	Same	Longer half life in elderly patients Dose adjustments for hepatic disease	No
	Lorazepam	Ativan	10 - 20	10 - 20	<30 min	Same	Longer half life in elderly patients No dose adjustments for mild to moderate renal or hepatic impairment	Yes
	Triazolam	Halcion	0.125 - 0.5	1.5 – 5.5	<30 min	Same	Longer half life in elderly patients Dose adjustments for hepatic disease	Yes
	Temazepam	Restoril	7.5-30	3.5-18.4	<30 min	Same	Longer half life in elderly patients No dose adjustments for mild to moderate renal or hepatic impairment	Yes
Non- benzodiazepine receptor	Zolpidem	Ambien Ambien CR Intermezzo	5-10 mg 6.25-12.5 1.75-3.5	2.5	< 30 min	Dizziness Forgetfulness Falls	Dose adjustments for hepatic disease Approved for both short	Yes

agonists		Edluar	5-10 mg			especiallyin elderly Night eating syndrome	and long term use Additional formulations for sublingual (Intermezzo) or oral spray (Edluar) usage Complex sleep behaviors	
	Eszopiclone	Lunesta	1-3 mg Elderly or debilitated 1 mg	5-6	< 30 min	Daytime sedation, dizziness, dry mouth, hallucinations, sleep walking	Short term and chronic insomnia Complex sleep behaviors	Yes
	Zaleplon	Sonata	5-10 mg Maximum 20mg Elderly or debilitated 5mg	1	< 30 min	Same as Zolpidem	Short term use only Avoid administration with high fat meal May use a second dose in the middle of the night if awoken Complex sleep behaviors	Yes
Melatonin Agonsists	Ramelteon	Rozerem	8 mg	1.75	< 30 min	Somnolence and dizziness, possible effects on reproductive endocrinology (prolactin, testosterone)	Long term use Difficulty with sleep onset Avoid administration with high fat meal Do not break tablet	Yes
	Melatonin	N/A	1.5 - 3 mg	35-50 min	Take 20- 40 minutes prior to bedtime	Headache Drowsiness Upset stomach	Recommended for short term use – Up to two months Jet lag	No

Antihistamines	Diphenhydramine	Benadryl		2-8	20-40	Dry mouth,	Available over-the-	Yes
			Most		minutes	constipation,	counter	
			common			blurry vision,		
			dosage 50-			confusion, falls		
			100mg					
	Hydroxyzine	Vistaril/	Most	20-25	Take 30-	Decreased		No
		Atarax	common	min	60 min	mental		
			dose 50-		before	alertness,		
			100mg		bedtime	headache, dry		
					May last	mouth		
					too long			
					or not			
					enough			
	Doxylamine	Ingredient in	25-50mg	2	Take 30	Dry mouth,	Available over-the-	Yes
		Nyquil			min prior	ataxia, urinary	counter	
					to	retention,		
					bedtime	memory		
					May last	deficits		
					too long			
					or not			
					enough			
Tricyclic	Amitriptyline	Elavil	Lower	12-24	May be	Cardiac	May be deadly in	No
Antidepressants			doses more		delayed,	toxicity,	overdose	
			effective,		some	anticholinergic	Possibility of developing	
			10-50 mg		taking 2-	effects	withdrawal symptoms if	
			but may		3 hours		discontinued quickly	
			dose at 50-		for effect			
			100 mg					
			QHS					
	Doxepin	Sinequan	10-50mg	17	Approxi	Appetite loss;	May be deadly in	No
		Silenor	3-6 mg		mately	constipation;	overdose	
					30 min	diarrhea;	Possibility of developing	
						dizziness;	withdrawal symptoms if	
						drowsiness;	discontinued quickly	

						dry mouth;		
						excess		
						sweating;		
						headache;		
						heartburn		
Other	Trazodone	Desyrel	Lower dose	3-6	Onset 20	Anticholinergic		No
			more		mins,	effects,		
			effective		Variable	priapism,		
			50-100 mg		duration	dizziness		
			QHS					
	Mirtazepine	Remeron	15-45 mg	20-40	Onset	Weight gain,	Primary use is for	No
			QHS		variable	dry mouth,	depression	
						daytime	Triglycerides may	
						drowsiness	become elevated	
	Quetiapine	Seroquel	25-100 mg	6	30-60	Weight gain,	May be at risk of tardive	No
		Seroquel XR	QHS		mins	dry mouth,	dyskinesia with long	
						dizziness	term use	