

Novel BZD receptor agonists (Z compounds)

	<p>1-They are chemically unrelated to BZD. 2- They bind selectively to the omega-1 part of the BZD receptor.</p>		
	<p>1- they are hypnotics. 1. [They have sustained hypnotic efficacy without occurrence of rebound insomnia on abrupt discontinuation] 2. [with less or even no tolerance to their hypnotic effect]</p> <p>2- their lack for the anxiolytic, muscle relaxant and anticonvulsant effects</p> <p>3- They have shorter half-life when compared to commonly prescribed benzodiazepines</p> <p>4- Z compounds are FDA category C for use during pregnancy.</p>		
Type			
	Eszopiclone	<p>1- has a shorter half-life (1 h)</p> <p>2-Eszopiclone is metabolized by hepatic CYP3A4.</p> <p>3- The elimination half-life of eszopiclone is prolonged in elderly and in the presence of inhibitors of CYP3A4 (eg, ketoconazole).</p>	<p>1-reducing sleep latency 2-treat initial insomnia.</p> <p>The side effects of eszopiclone can include: 1- unpleasant taste in your mouth (bitter)and dry mouth 2- Drowsiness, dizziness, and headache 3- Rash and other allergic reactions. 4- symptoms of the common cold, such as sneezing or runny nose, even fever and chills could occur. 5- Urination problems. 6- Sleepiness in high doses.</p>
	Zaleplon	<p>1- 1½ is longer, about 6 h, and gives better sleep time (7-8 h) . 2-It is the only Z-drug approved for long term use 6-12 months</p>	

Flumazenil

	<p>1- competitive antagonist to BZD receptors. 2- It has extensive first pass metabolism>>>so it is given i.v. 3- Its half-life is shorter than most of BZD>>> so, repeated i.v doses (series of small injections than single bolus injection) are preferred. 4- it has a short duration of action (30-60 minutes)</p>
	<p>1- treat overdose of BZD 2- reverse their sedative effect when given in diagnostic procedures (e.g. endoscopy). 3- used effectively in treating hepatic encephalopathy >>> especially following exposure to BZD. 4- Administration of flumazenil may precipitate withdrawal symptoms in BZD dependent patients.</p>

"من استكثر من الصّلاة والسّلام على النّبي
فهو يَسْتَفْتَحُ لِنَفْسِهِ وقلبه و رُوحه أَبواب
الكرم الإلهي، ويضيء نفسه و قلبه و رُوحه
وعالمه بنور لا يبلى ولا ينفد."