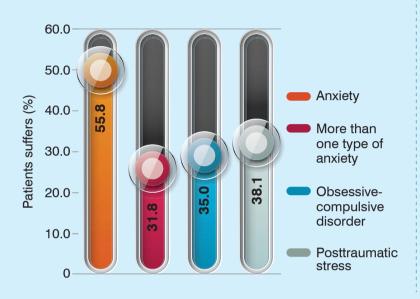
## Is Drug-drug Interaction, A Challenge in Treating Comorbid Condition like Anxiety with BPD?

omorbidity is the rule, and not the exception in bipolar disorder (BPD).<sup>1</sup> Naturally, successful management of BPD would also warrant timely diagnosis and management of the comorbid conditions. Of the various comorbidities reported for BPD, anxiety disorders are one of the commonest. Multiple anxiety disorders exist as comorbidities in more than 1/3<sup>rd</sup> of patients with BPD.<sup>2</sup>

# Anxiety: A Commonest Comorbidity of BPD<sup>3,4</sup>



#### **Treatment Challenges**

Presence of anxiety and bipolar disorders as co-morbidity aggravates the symptoms of both the disease and have poor prognosis and have frequent remission impacting the overall quality of life of patients. The management of these patients also becomes more challenging due to overlapping adverse events and drug -drug interactions.<sup>2</sup>

**Issue 01** 

#### Drug Interaction with Other Psychotropic Drugs used in Anxiety

- Drug-drug interaction studies and pharmacokinetic studies for co-administration of divalproex with other psychotropic medication has shown minor to moderate drug interactions.5,6
- Divalproex does not result in severe interaction with contraindications making its co-administration with anti-anxiety drugs safe with acceptable safety profile.

### Drug interactions of Divaproex Sodium and some commonly used Psychotropic drugs used in anxiety<sup>7,8</sup>

**Divaproex Sodium** ~ Possible interaction\* Escitalopram + Additive effect Clomipramine Х X Not recommended **Drug-drug interactions** ? Interaction unknown Х Paroxetine Minor-to-moderate Severe +Diazepam ~ interaction interaction +Alprazolam ~ The drug interactions between drugs are represented by the color and the symbol in the column with the drug present in the Clonazepam  $\sim$ ~ ? + horizontal line. For e.g.: Divalproex have minor to moderate [Blue color] possible ? Lorazepam  $\sim$ +? interaction (~) with escitalopram, similarly escitalopram can have minor to moderate [Blue color in column] additive effect (+) Amitriptyline +~  $\sim$ with Diazepam. ?  $\sim$ Х Х +Sertraline \*Observe precaution & monitor the patients

References: 1. McElroy SL. J Clin Psychiatry. 2004;65 Suppl 15:35–44. 2. Spoorthy MS, Chakrabarti S, Grover S. Comorbidity of bipolar and anxiety disorders: An overview of trends in research. World J Psychiatry. 2019 Jan 4;9(1):7–29. 3. Hitty DM, Leamon MH, Lim RF, Kelly RH, Hales RE. A review of bipolar disorder in adults. Psychiatry (Edgmont). 2006;3(9):43–55. 4. McElroy SL. Diagnosing and treating comorbid (complicated) bipolar disorder. The Journal of clinical psychiatry. 2004;65:35–44. 5. Remmerie B, Ariyawansa J, De Meulder M et al. Drug-drug Interaction Studies of Paliperidone and Divalproex Sodium Extended-Release Tablets in Healthy Participants and Patients with Psychiatric Disorders. The Journal of Clinical Pharmacology. 2016 Jun;56(6):683–92. 6. Winter HR, DeVane CL, Figueroa C, et al. Open-label steady-state pharmacokinetic drug interaction study on co-administered quetiapine fumarate and divalproex sodium in patients with schizophrenia, schizo- affective disorder, or bipolar disorder. Human Psychopharmacology: Clinical and Experimental. 2007 Oct;22(7):469–76. 7. https://www.pdr.net/ (Accessed on 05/10/2020) 8. https://www.drugs.com/ interaction/ (Accessed on 10/10/2020).

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