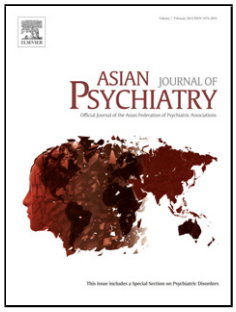

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TITLE PAGE

Seizure secondary to Bupropion extended release preparation: A report

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Introduction

Bupropion is an antidepressant drug belonging to norepinephrine-dopamine reuptake inhibitor (NDRI) class(Stahl SM., 2000). Different preparations of Bupropion have been approved by Food and drug administration (FDA) for the treatment of a major depressive disorder such as immediate release (IR), sustained release (SR), and extended release (XL) preparations (Montvale et al, 2005).

Bupropion has some common side effects like dry mouth, nausea, stomach pain, headache, dizziness, sore throat, muscle pain, mild itching or skin rash, increased sweating, increased urination, or changes in appetite, weight loss or gain (Dwoskin LP et al. 2006). Seizure incidence is also been a reported side effect of this drug, however, reported as a dose dependent phenomena in literature (Shepherd G 2005). Seizure rate of sustained release formulation is estimated as 0.1% at dose 300 mg per day and at 450 mg/day ranged from 0.35%-0.44%, (Davidson J ,1989).

Also, most of the previous research has described seizure incidence with immediate release formulation and incidence of seizure with extended release formulation is reported rarely. Thus hereby we present a case of seizure secondary to extended relies on the formulation of Bupropion.

Case Presentation