

# Carbamazepine-induced aplastic anemia: A rare reported adverse drug reaction

Anjali Kushwah, Akhilesh Pratap Singh Tomar<sup>1</sup>, Meghna Shinde, Preeti Acharya

## Abstract:

Carbamazepine is widely used drug for various neurological psychiatric disorders. Aplastic anemia is its rare serious adverse effect which possess high mortality rate. This is a retrospective case study where aplastic anemia due to carbamazepine was reported. We enquired the case details and on doing the causality assessment by World Health Organization scale, concluded it as a "certain" type of Adverse Drug Reaction (ADR) induced by carbamazepine. A 44-year-old male was taking carbamazepine prescribed for epilepsy for 2 years. For the last 4–5 months, he started having generalized weakness, easy fatigability, shortness of breath on exertion, and pedal edema. Investigating it, further he was diagnosed with carbamazepine-induced aplastic anemia. Routine blood investigations, bone marrow findings, etiological confirmation done by treating physicians, and reporting of ADRs by pharmacologists through pharmacovigilance program may provide World Health Organization to release drug alerts so as to warrant the future use of culprit drugs.

## Keywords:

Adverse drug reaction, aplastic anemia, carbamazepine