

Assessment and Case Analysis of Adverse Drug Reactions Associated with Ceftriaxone Administration in a Clinical Setting

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Abstract: Adverse drug reactions (ADRs) are unintended and harmful effects resulting from the use of medications, posing a significant challenge to patient safety worldwide. Ceftriaxone, a widely used third-generation cephalosporin antibiotic, is effective against a broad spectrum of infections but can also cause serious ADRs, including allergic reactions and hematologic complications. This observational case report was conducted at Manipal Hospital, Baner, Pune, to evaluate ADRs associated with the administration of injection ceftriaxone. The study focused on a 32-year-old female patient who developed an immediate allergic reaction following a single intravenous dose of ceftriaxone. Prompt treatment with antihistamines and corticosteroids resulted in recovery. The study emphasizes the importance of close monitoring, cautious prescribing, and comprehensive reporting of ADRs to enhance pharmacovigilance. While ceftriaxone remains a cornerstone in antimicrobial therapy, its misuse may contribute to antimicrobial resistance, highlighting the need for stewardship in clinical practice

Keywords: Ceftriaxone, Adverse Drug Reactions (ADRs), Antibiotic Safety, Pharmacovigilance, Allergic Reaction, Case Report, Antimicrobial Resistance, Naranjo Algorithm, Cephalosporin, Drug Hypersensitivity

