



Administration error of benzathine penicillin G in a Saudi male

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Abstract:

Background Benzathine penicillin G is specified for intramuscular (IM) administration. There have been reports of unintentional intravenous (IV) administration, which has been associated with cardiorespiratory arrest and death. This article reports on a case of involuntary IV administration of benzathine penicillin G instead of IM injection. **Clinical details** A 29-year-old Saudi army male with no history of any chronic illness visited the Security Forces Hospital in Makkah because of injuries to his left hand and left ear as a result of a bomb blast. The patient underwent surgery, and was conscious, oriented and vitally stable after the operation. He was prescribed benzathine penicillin G to prevent wound infection, but the injection was incorrectly administered IV instead of IM. **Outcomes** The patient did not exhibit any visible clinical symptoms after receiving the drug via the wrong route. The patient's vital signs were fine and he did not have a fever. The full complete blood count was normal, except for a mild elevation in the neutrophil count (84%) and a mild decrease in lymphocytes (8.8%). Random blood glucose was 149 mg/dL and the activated partial thromboplastin time was 39.3 s. All other laboratory investigations were within the normal range. The creatinine concentration fluctuated between 0.8 and 1 mg/dL. **Conclusion** This was an obvious case of a drug-related problem categorised as a 'wrong route error'. The role of clinical pharmacists in preventing such errors is important to ensure patient safety.

Biography:

Ethar Imam is a senior clinical pharmacist and works with security forces hospital – Makkah SFHM Saudi Arabia. She holds Master degree in Clinical Pharmacy, and PhD, Khartoum University-Sudan. She is a senior clinical pharmacist infectious disease specialist, she has Antimicrobial Stewardship Certification (SIDP), and she is Institutional Review Board (IRB) member, Pharmacy



and Therapeutic committee member and preceptor of Antimicrobial Stewardship, and lecturer. She has Teaching certificate for pharmacist, American society of hospital pharmacist (ASHP). Author of antimicrobial stewardship book at SFHM, Leader of training and education of antimicrobials for all health care providers at the hospital, She works in collaboration with Institute of Endemic Diseases, Sudan(WHO).

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