

# 3<sup>rd</sup> International Summit on **GMP, GCP & Quality Control** September 25-26, 2014 Valencia Convention Centre, Spain

## Acquired error in using antibiotic for surgery patients in Iraqi hospitals

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The use of antibiotics (AB) in surgery focused in either treating established infection or to prevent suspected post-operative infection. Inappropriate use of antibiotic for treatment of patients with common infections is a major problem worldwide, with great implications with regards to cost of treatment and development of resistance to the antimicrobial agent. Moreover, antibiotics may often be dispensed without a clear clinical indication. This study was conducted to estimate the medication errors in using antibiotic for surgery patients which may affect their wound healing. 260 patients with clean-contaminated and contaminated surgery were included from two teaching hospitals, 160 patient from Medical city hospital and 100 from Al-kadhimiya hospital, 86% were female and 32% were male, their age range was 40+/-15. The study shows that there are medication errors related to different causes: firstly, medical team error which include the nurse(70.9%) and the physician which include 1) delay in patient follow up after operation(5.9%), 2) changing the AB without doing culture and sensitivity test(48.8%), and incomplete prescription order(13.1%). second: ordering error which include: 1) the absent of original source of AB(44.5%), 2) Error in availability of the chosen AB(74.8%), and third: error related to the patient itself include 1) socioeconomic situation(14.5%), 2) educational state (54.3%), finally error related to increase cost in dispensing more than one AB needed (80.1%), although the healing was(63.6 %), delay in response(25%) and complicated wound infection (5%), significant results were arrange nurse error and poor drug availability. In conclusion: medication errors are still common problem in our hospitals, which are mostly related to medical team and the pharmacists should give more effort to avoid these errors.

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