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Incidence of adverse drug reaction associated with the use of antibiotics at an orthopedics hospital

Tathiana Silva de Souza Martins

National Traumatology and Orthopedics Institute (NTOI), Brazil

Abstract

The National Traumatology and Orthopedics Institute (NTOI) is the holder of the maximum hospitals and clinics quality certification granted by the Joint Commission International, since 2006. At NTOI, due to the surgeries characteristics, the patients exposure to infections is pretty significant, demanding the use of antibiotics (ATBs) in a large scale and in many cases for a prolonged time, a fact that may extend the possibility of adverse drug reactions (ADRs). So, it was objectified to analyse the incidence of ADRs in hospitalized patients associated with ATBs. It is a cohort study. The sample was compounded by 101 adult patients who were hospitalized during January to December 2012. The gathering of data was prospective using medical records and patients interviews. The project was approved by the Research Ethics Committee with human beings from NTOI (n° 0050.0.305.000-10). All patients were submitted to polypharmacy, 31% used more than 2 ATBs and the most prescribed ATB was vancomycin (36%). The incidence of ADRs associated with ATB was 51%, being the majority (58%) considered possible according to Naranjo Algorithm. It was evidenced that 40% of ADRs were caused by rifampicin and 32% by oxacillin. It is concluded that ADRs can present an important negative impact, referring to the patient well- being and the quantity of spending resources. It is necessary that hospitals pharmacovigilance service uses active search as pro- active strategy to minimize the ADRs and their clinic and economic impact.

Biography

Martins completed her PhD in the Adult Health Nursing Program at The São Paulo University. Master in Nursing by the Fluminense Federal University. Assistant professor of the Care Nursing Master's Degree at Fluminense Federal University. Risk manager at The National Traumatology and Orthopedics Institute, responsible for the pharmacovigilance.

tathinurse@gmail.com