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### **Significant reduction in the post cesarean delivery surgical site infection rate after use of prophylactic antibiotics in Madinah Maternity hospital, Saudi Arabia**

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Surgical site infection is the second most common health care-associated infection among woman undergoing cesarean section. In the study we aimed to determine the role of prophylactic antibiotic treatment given cohort study at Madinah Maternity and Children Hospital, obstetrics and Gynecology department, Madinah, Saudi Arabia. It was conducted from December 2011 to December 2013; where 8544 medical records of women delivered by cesarean section were reviewed and the rate of surgical site infection during the year 2012 was compared with its rate during the year 2013. Total number of cesarean section cases complicated by surgical site infection in 2012 was 167 cases. During 2013 (after administration of prophylactic antibiotic to all women delivered by cesarean section), 109 cases were complicated by surgical site infection among 4470 delivered by cesarean section statistical analysis shows clearly that infection rates were significantly different ( $p < 0.001$ ) between year 2012 and year 2013; with higher rate of infection in the year 2012 which was 4% compared to 2.4% during the year 2013. *Enterococcus spp.* where the highest isolated organisms while, *Streptococcus spp.*, was the least isolated organisms among isolates 16% of isolates showed resistance to ampicillin, while, all isolates were 100% sensitive to both gentamicin and vancomycin drugs. Surgical site infection incidence was significantly reduced after the administration of prophylactic antibiotics for cesarean section, beside; infection control procedures are working and also improving from month to month.

#### **Biography**

Jehan Al Hazmi is a Consultant Obstetrician and Gynecologist. She is a Medical Director for Medina Maternity Hospital, Kingdom of Saudi Arabia. She completed her MBBS from King Abdul-Aziz University Jeddah, Saudi Arabia. She published a lot of papers in international journals and is a Speaker for many local symposiums. She organized all Obs. & Gyn. symposiums at Medina Maternity Hospital. She is a member of task force to publish 1st Saudi Guidelines of Thrombosis during pregnancy and puerperium. She has special interest in Obstetric cases.

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