**Original article:**

**Short term antibiotic prophylaxis in surgical nosocomial wound infection**

**Dr Pradnya Deolekar , Dr Sandesh Deolekar , Dr Pramila Yadav , Dr Vikas Lal ,**

**Dr Aditya Oak**

Department of Pharmacology, Dr D Y Patil Hospital, Nerul , Navi Mumbai , India

Corresponding author: Dr Pradnya Deolekar

**Abstract:**

**Introduction:** Short term antibiotic prophylaxis reduces the need for long term antibiotic treatment and therefore may contribute to reducing selection of antibiotic resistant bacteria .prospective observational study was carried out to examine whether short term antibiotic prophylaxis is efficacious in preventing post operative wound infection.

**Aim:** To find incidence of wound infection, and to compare efficacy of the four different antimicrobial combinations.

**Results:** The SSIrate in the Piperacilin – Tazobactum group was the least ie 1 (2.5%). The SSI was least in elective cases, laproscopic, minor cases, surgeries with short duration, and in first two of chronology. The predominant organism causing infection in the study was Pseudomonas aeruginosa.

 **Conclusion:** The benefits gained from a preventive antibiotic program would include reductions in both morbidity and mortality.