

Â ORIGINAL ARTICLE

**A Study of Postoperative Wounds Infections with Special Reference to Staphylococcus Aureus - A Study in a Tertiary Care Centre of Vidarbha Region of India**

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**Abstract**

**Background:** For the last few decades, nature of wound infection has varied from time to time and place to place. In our region postoperative wound infections are common; however, their prevalence has not been well documented. **Material and Methods:** A total of 800 patients admitted in two surgical units, two Gynecology and Obstetrics unit, one Orthopaedic unit, one ENT unit, one Ophthalmology unit and one Plastic Surgery unit of Government Medical College & Hospital Nagpur included in the study. **Results:** 116 (14.5%) cases were postoperatively infected. Many factors are behind it like wound contamination, old age, presence of drains and prosthesis, associated medical illness, overcrowding and the presence of multidrug resistant organisms. Most common organism was staphylococcus (26.51%) followed by Pseudomonas (18.18%) and Ecoli (15.90%). All Staphylococcus aureus strains (100%) were sensitive to vancomycin followed by 22 strains (62.9%) to erythromycin and methicillin and 20(57.1%) to gentamicin. Only 4 (11.43%) and 3 (8.57%) strains were sensitive to penicillin and ampicillin respectively. **Conclusion:** Incidence of postoperative wound infection is high in the region. A combined effort should be taken to minimize the problem of postoperative wound infection. Present study can provide a baseline data about the post operative wound infection in the region.

**Keywords:** Infections, Postoperative wound, Staphylococcus aureus

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