AIMS AND OBJECTIVES

The main aims and objectives of the study were-

1. Study of incidences of post-operative wound infections in Omerga region.
2. Survey of hospital practicing surgery in Omerga region.
3. Collections of clinical specimens like pus, blood, exudates and biopsy material from the post-operative wound infections aseptically.
4. Bacteriological studies of clinical species collected:
   a. Microscopic studies on clinical specimens will be carried out by Gram staining and morphological features will be noted of predominant bacteria.
   b. Enrichment and selective isolation of the predominant aerobic and anaerobic bacteria from the clinical specimens will be carried out by inoculation on Nutrient agar, MacConkey’s agar Blood agar and Mannitol salt agar etc.
   c. Characterization and identification of the pure culture isolates using morphological, cultural, biochemical characteristics, genetic studies (16 S rRNA sequencing) and further phylogenic studies.
5. Drug resistance and Sensitivity pattern studies:
   a. Study on Drug resistance and Sensitivity Testing of isolates to most commonly used antibiotics.
   b. Studies on genetic aspects of multiple drug resistant isolates with reference to plasmid studies.
6. To determine the factors responsible for post-operative wound infections, which will be helpful in reducing rate of post-operative wound infections.
7. To create awareness of causes and prevention of post-operative wound infections and develop proper surgical wound care techniques.
8. The results, discussions and conclusions of this study intend to use for educational purposes for both in hospitals and universities.