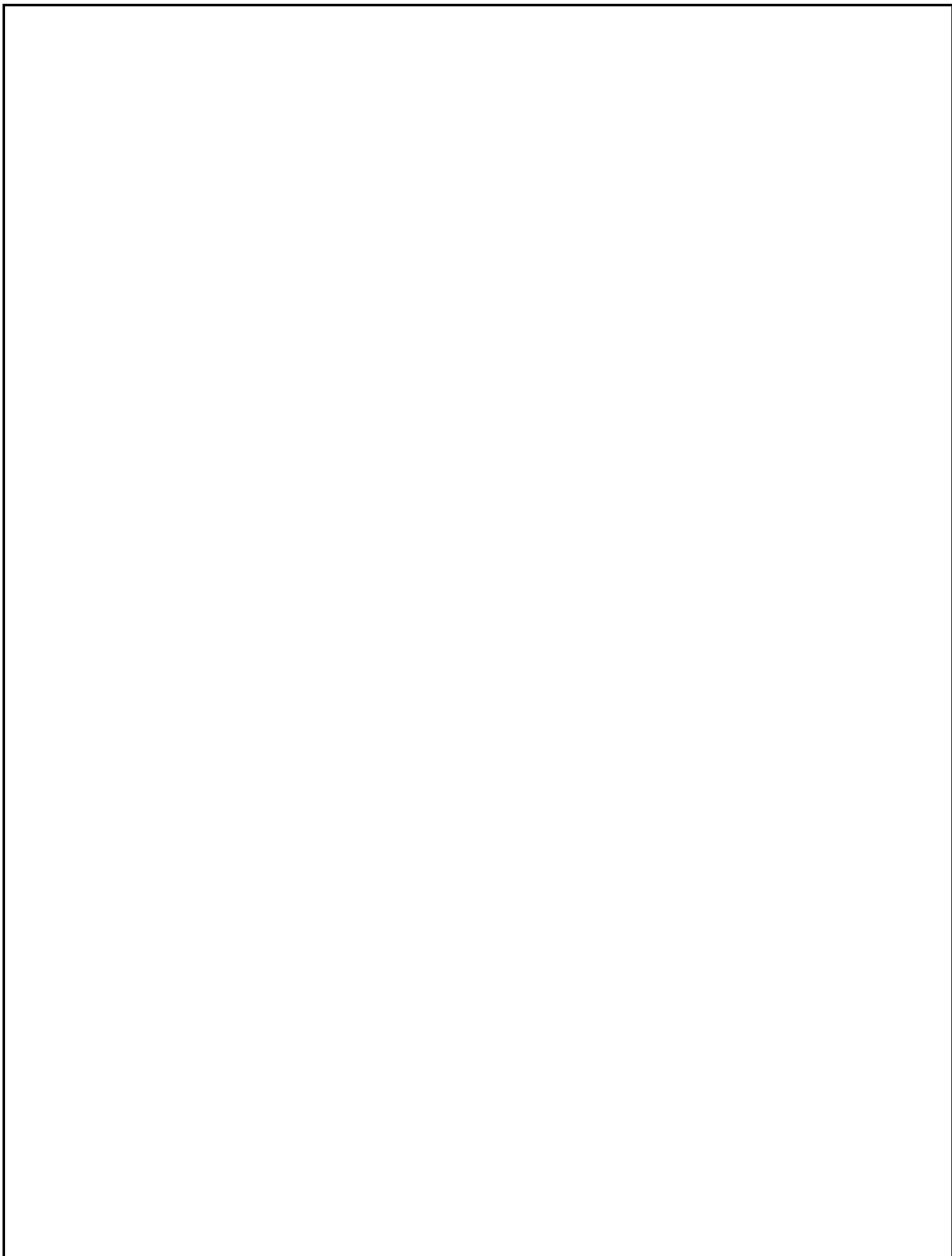


Elective - Hands on experience on Hospital Infection Surveillance

Name of Block	Block 1
Name of Elective	Hands on experience on Hospital Infection Surveillance
Location of hospital Lab or research facility	Dayanand Medical College & Hospital, Dept of Microbiology
Name of internal preceptor(s)	Dr Veenu Gupta
Name of external preceptor if applicable	N/A
Learning objectives of elective	• To understand infection control practices • To know about CDC guidelines & definitions • To understand insertion and maintenance bundles • To understand surveillance of CLABSI/ CAUTI/ VAP/ SSI • To differentiate colonization from infection • To know about environmental surveillance (water/ air/ food/ CSSD/ dialysis/ endoscopy) • To study the importance of screening health care workers • To know about the process of screening of health care workers • To know about quality control in sterilization
Number of students that can be accommodated in this elective	4
Prerequisites for elective	• Knowledge about standard precautions & good laboratory practices
List of activities of student participation	• Visit to clinical area to observe the protocol of central line/ urinary catheter/ endotracheal tube insertion & maintenance • Visit to clinical area for observing pre & post-operative procedures and OT for pre & intra-operative procedures • Filling up surveillance performa and labelling a case of CLABSI/ CAUTI/ VAP/ SSI • Data analysis & calculation of HAI rates • Sample collection, microbiological processing and result interpretation of water/ food/ dialysate/ endoscopy fluid samples • Air sampling technique & microbiological processing • Monitoring of sterilization (indicators) • Screening of health care workers for MRSA • RCA/CAPA • Case presentation
Learning Resources	• HIC manual • CDC/NHSN guidelines for HAI
Portfolio entries required	• Documentation of activities learned

	• Documentation of presentationdone • Final Presentation
Log book entry required	• Pre test • Activities learned with level of competence- B/M/E • Record of case presentation • Final presentation • Post test record • Completion of posting signed by preceptor
Assessment	• Successful completion of objectives and log book entry of day-to-day participation in departmental activity; pre/post test • Case presentation • Final presentation of the portfolio
Other comments	Nil



Logbook – cum- Portfolio
Elective module: Hands on experience on Infection Bundles

Hands on experience – Hospital Infection Surveillance

Healthcare-associated infections (HAI) are infections acquired after 48 h of admission; which were not evident or under incubation at the time of admission. HAIs are associated with increased mortality, morbidity, and significant economic burden. Most commonly encountered infections are: Ventilator-Associated Pneumonia (VAP), Central-Line-Associated Blood Stream Infections (CLABSI), Catheter-Related Urinary Tract Infection (CAUTI) and Surgical site infections. The implementation of care bundle approach (evidence-based three to five elements) has shown to produce better outcomes. Surveillance is one of the most important components of an effective infection control program. It is defined as the systematic collection, analysis, interpretation, and dissemination of data about the occurrence of HAIs in a definite patient population so that timely corrective & preventive action is taken. Ongoing surveillance of HAIs helps characterize infections, etiology, sources, DA-HAI rates, and antibiograms, thus help in formulating institutional policies for targeted interventions. Hospital environmental monitoring is key to ensuring air, temperature and humidity are safe. The infection control team performs regular screening of health-care providers, food & water from all areas of the hospital.

This knowledge will help in better patient care and monitoring of infections in clinical care settings. With the expertise in infection control you can serve as infection control officer which is a mandatory requirement in accredited hospitals.

Logbook – *cum*- Portfolio

Elective module: Hands on experience on Hospital Infection Surveillance