STUDY OF KNOWLEDGE, AWARENESS AND PRACTICES OF INFECTION CONTROL, AMONG HOSPITAL STAFF IN INTENSIVE CARE UNIT OF GOVERNMENT MEDICAL COLLEGE AND HOSPITAL (GMCH), CHANDIGARH

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INFECTION CONTROL IN ICU

• Patients in the ICU have multiple devices for treating or monitoring their care, and they are vulnerable to most common nosocomial infections like UTI, VAP, BSI, etc.
• 17% of MRSA bacteremia are identified in patients in critical care.
INFECTION CONTROL PROCEDURES IN ICU

- Gloves changing
- Patient placement
- Hand hygiene
- PPE
- Cleaning & disinfection
- Sterilization
- Waste Management
- Infection Control procedures In ICU
In Intensive Care Units of Government Medical College and Hospital (GMCH), Chandigarh from 15\textsuperscript{th} May 2010 to 15\textsuperscript{th} July 2010.
OBJECTIVES

- To assess the practices for infection control measures in ICU in GMCH.
- To identify the major factors hampering infection control measures in ICU.
- To make appropriate recommendations for the corrective action.
DISTRIBUTION OF SAMPLE POPULATION DESIGNATION WISE

- CONSULTANT: 10%
- SR: 12%
- JR-I: 12%
- JR-II: 4%
- JR-III: 2%
- STAFF NURSE: 19%
- SISTER IN CHARGE: 8%
- INTERN: 13%
- ANESTHESIA TECHNICIAN: 10%
- ANESTHESIA STUDENT: 4%
- OTHERS: 2%
- PHYSIOTHERAPIST: 4%
- PHARMACIST: 4%
- OTHERS: 2%
94% of questionnaire respondents believed that Personal Protective Equipment is an effective barriers for infection control.
In actual practice only 85% of staff used it.
Hand hygiene – First line of defense against hospital acquired infection
HANDS ARE THE MOST COMMON VEHICLE OF TRANSMISSION OF ORGANISMS

94% staff agreed that hand mediated transmission is the major source of cross infection.
MOMENTS OF HAND HYGIENE

- According to the questionnaire response 86% of the staff said that they follow all five moments of hand hygiene.
Only 24% of the ICU staff actually followed it.
STEPS OF HAND WASHING

- 87% of the staff follows all of the steps of hand washing, as stated in WHO guidelines.
- 96% of them feel hand washing should become an indispensable part of hygienic culture in ICU.

*Percent*
Responding through questionnaire 67% of the staff said they always wear fresh gloves before patient examination while only 14% said they do it sometimes.
While in actual practice as per direct observation only 39% of them wore fresh gloves before patient procedures, out of which the percentage was highest for physiotherapists.
Out of the 51 respondents 53% said that they always dispose off waste in a right colour coded dustbin, 22% did it frequently, 19% did it sometimes, 4% rarely did it and only 2% of the staff members never did it.
Good oral health care reduces colonization of microorganisms in the oral cavity and 80% of the staff agree to it.

When asked if the ICU has any guidelines/protocols for patient oral health care, 62% of the respondents said yes, 6% said no and 32% did not know about it.
When asked if the staff followed these patient oral health care practices as per the guidelines/protocols, 68% agreed to it while in actual practice only 44% did it.
Elevation of the head of the bed checks micro aspirations in patients and 66% of the ICU staff strongly believed it.

67% said that they elevate the head end of the patient who requires it but in actual practice only 49% of the staff does it.
The staff had mixed views about the quality of sanitation services provided in the ICU. Only 10% felt it was excellent, 43% thought it was good, 31% said it was OK, and 16% felt it was poor.
72% staff agreed that all the patient care equipments are sterilized properly in the ICU, 28% did not agree with the above statement.
94% of the staff agreed that good catheter care practices help in avoiding various infections in patients.
When asked from the staff if there are any guidelines/protocols for catheter care in the ICU, 78% said yes, 8% said no and 14% did not know about it.

57% said they frequently follow these while 4% did it only occasionally.
When asked if CMEs, training programmes and awareness campaigns are helpful in preventing infection in ICU, 90% of the staff agreed to it.
REFERENCES

- BM Sakharkar, Hospital Infection, 2nd edition, Jaypee Brothers Medical Publication, 422-249
- World Health Organization, Practical Guidelines for Infection Control in Health Care Facilities, SEARO Regional Publication No. 41, WPRO Regional Publication
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http://bji.sagepub.com


ajcc.aacnjournals.org


When the occasion is piled high with difficulty, rise with it, think anew and act anew.

- Abraham Lincoln

THANK YOU

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