

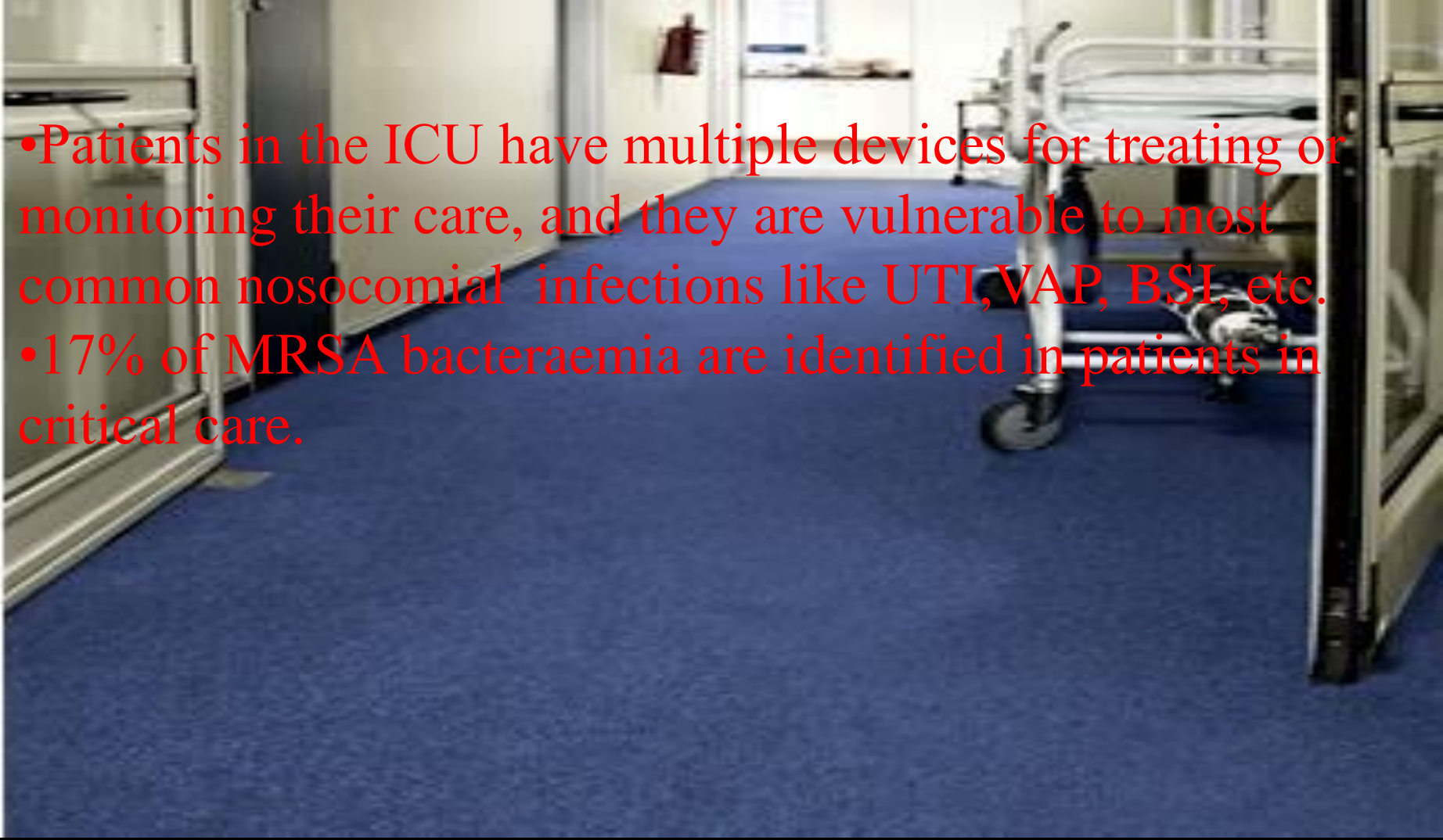


**STUDY OF KNOWLEDGE, AWARENESS AND  
PRACTICES OF INFECTION CONTROL, AMONG  
HOSPITAL STAFF IN INTENSIVE CARE UNIT OF  
GOVERNMENT MEDICAL COLLEGE AND HOSPITAL  
(GMCH),  
CHANDIGARH**

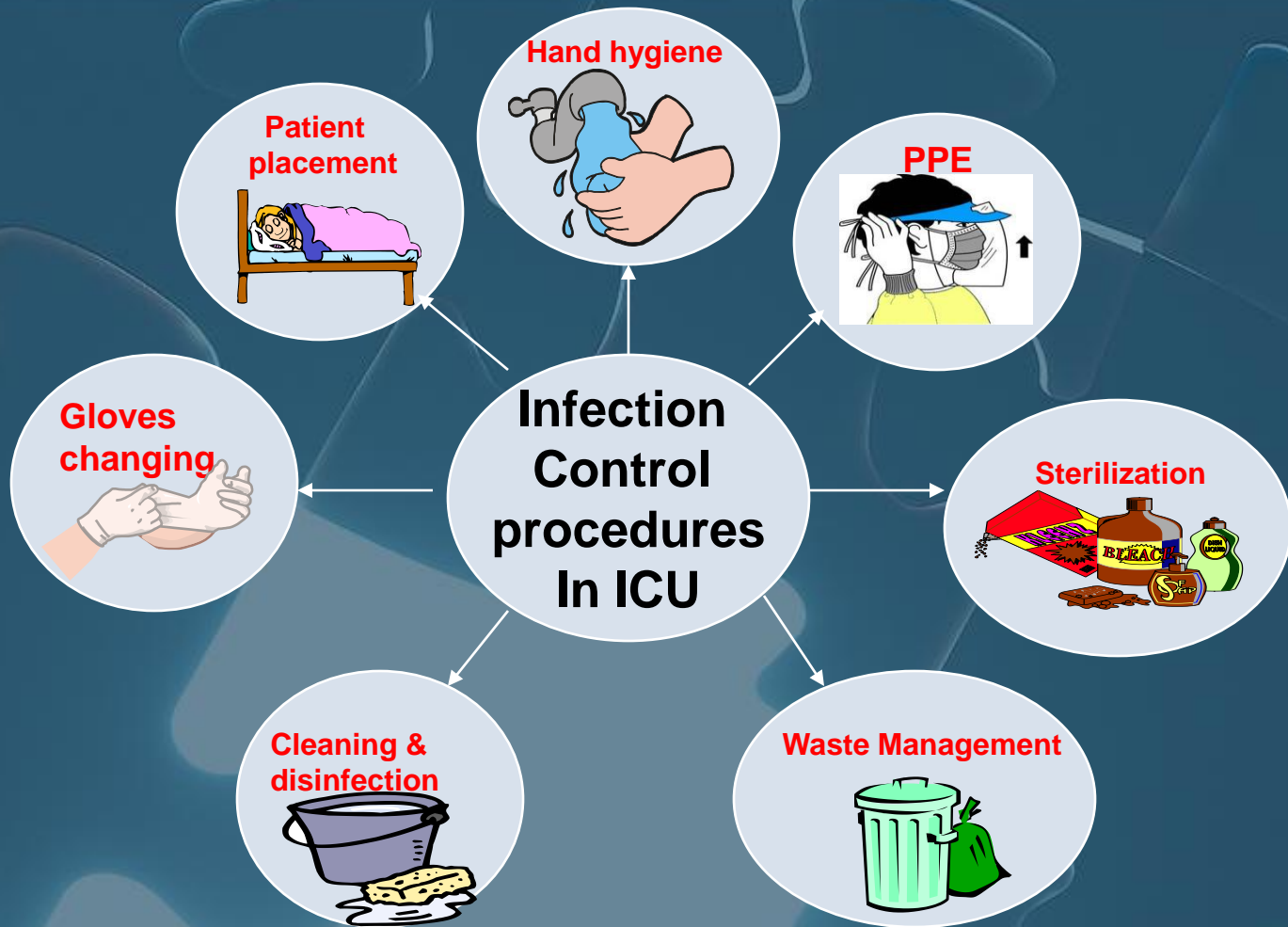
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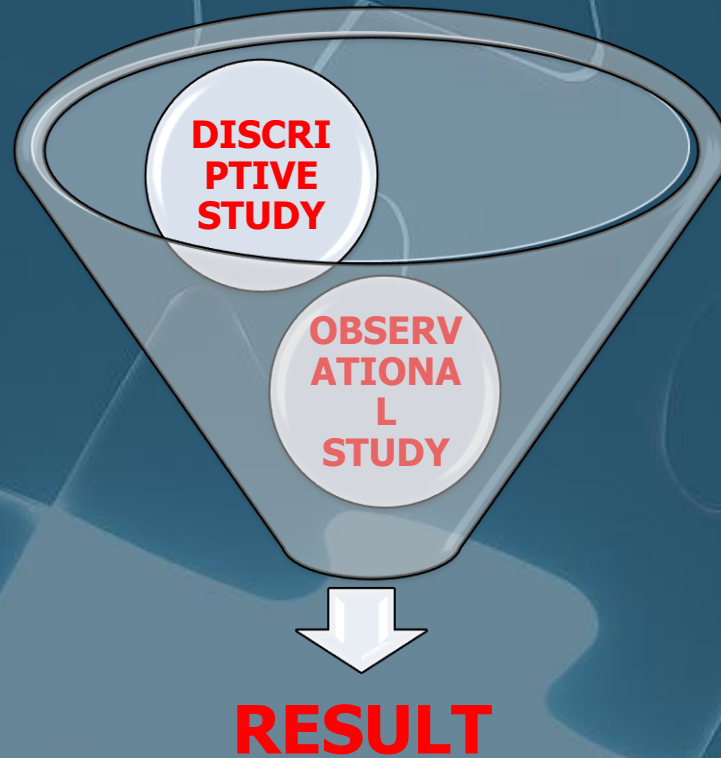
# INFECTION CONTROL IN ICU

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- 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 bacteraemia are identified in patients in critical care.

# INFECTION CONTROL PROCEDURES IN ICU



# STUDY INTRODUCTION



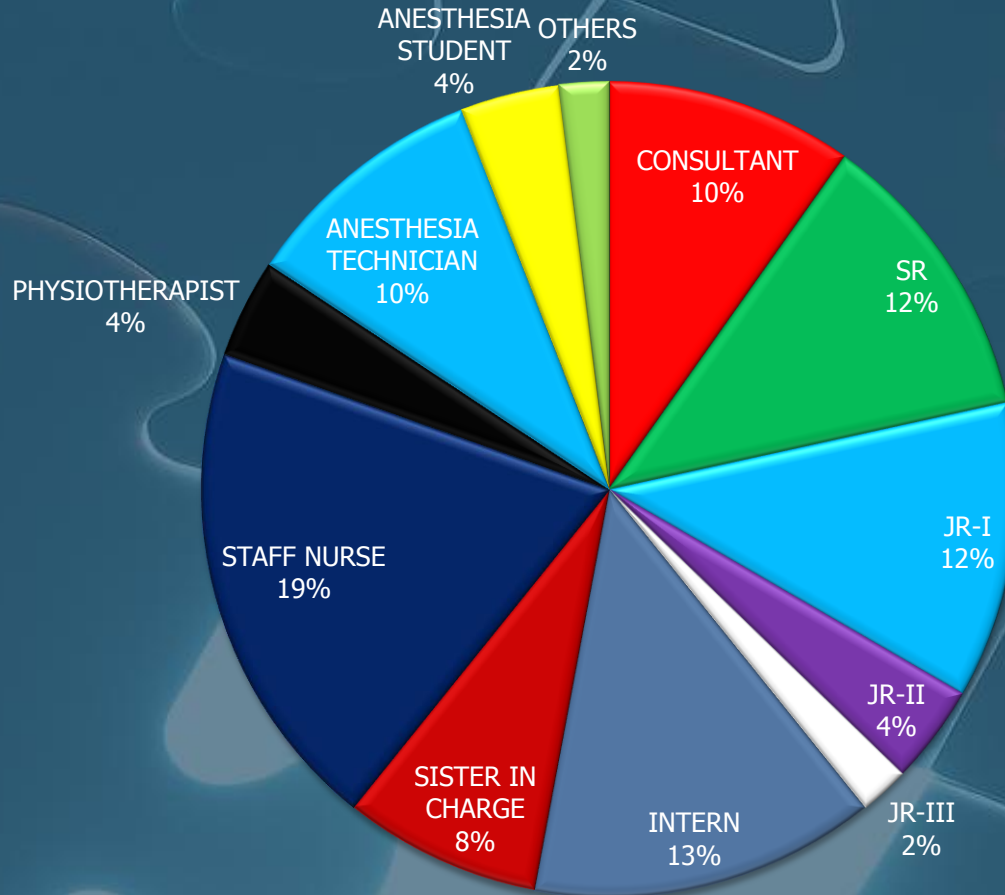
In Intensive Care Units of Government Medical College and Hospital (GMCH), Chandigarh from 15<sup>th</sup> May 2010 to 15<sup>th</sup> July 2010.



# 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.

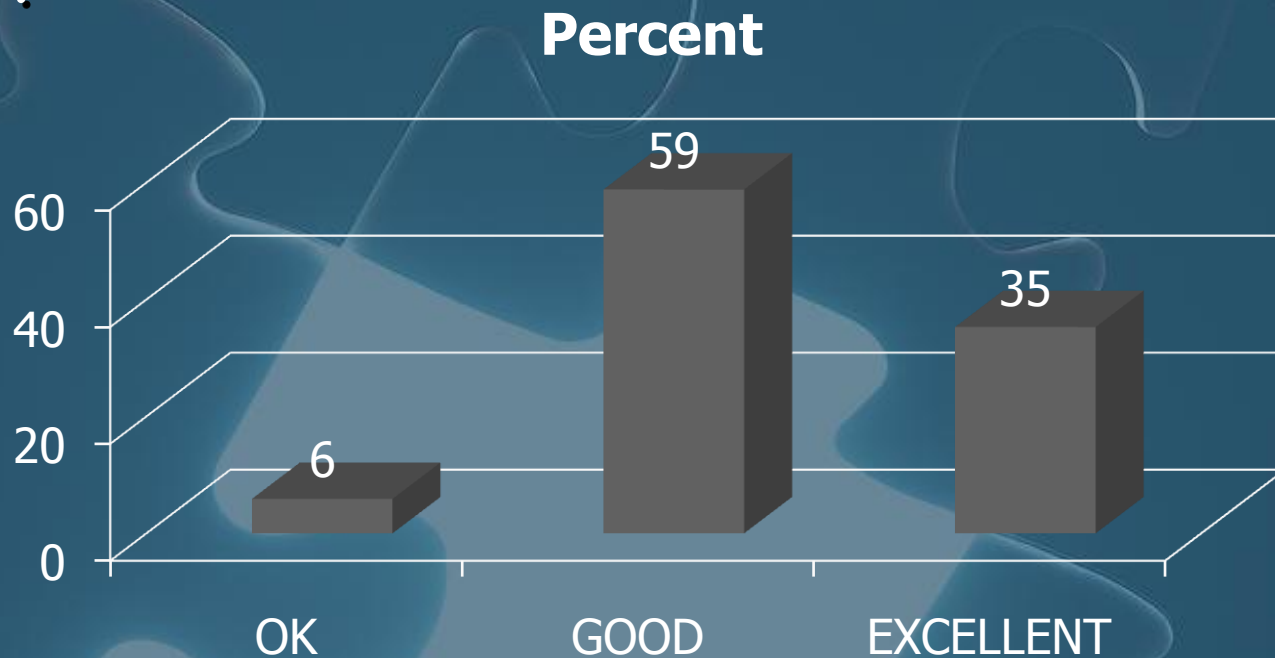
# DISTRIBUTION OF SAMPLE POPULATION DESIGNATION WISE





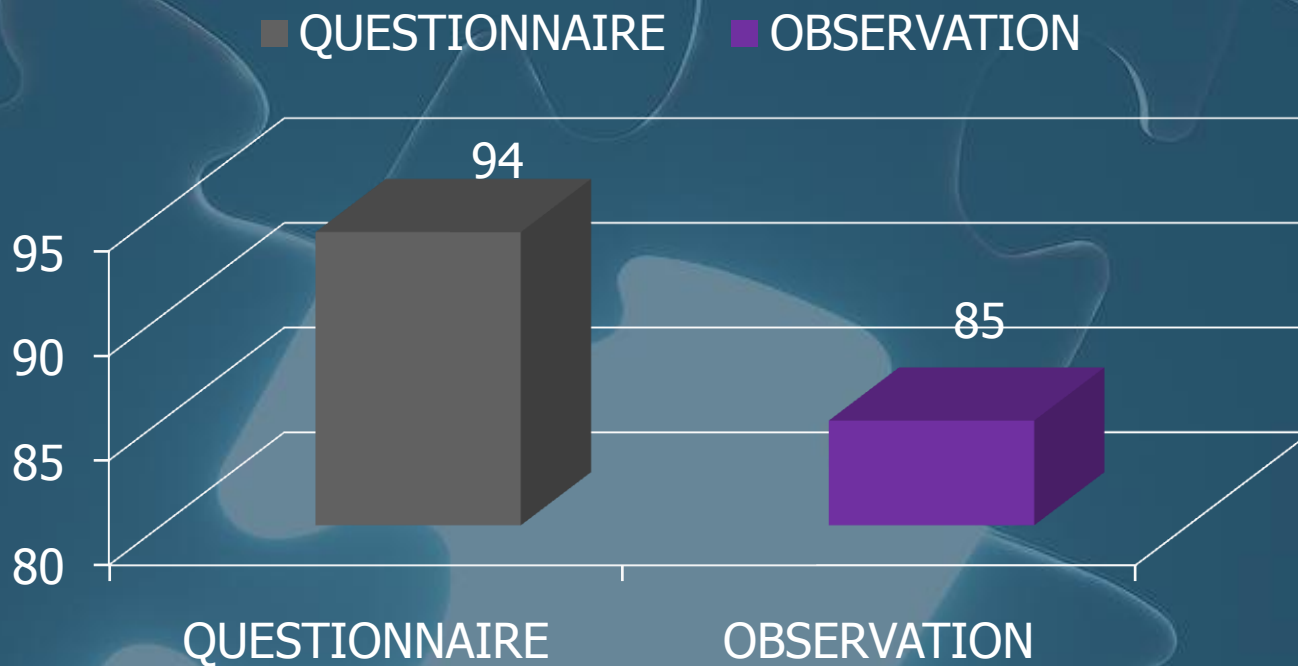
# PERSONAL PROTECTIVE EQUIPMENTS

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.**





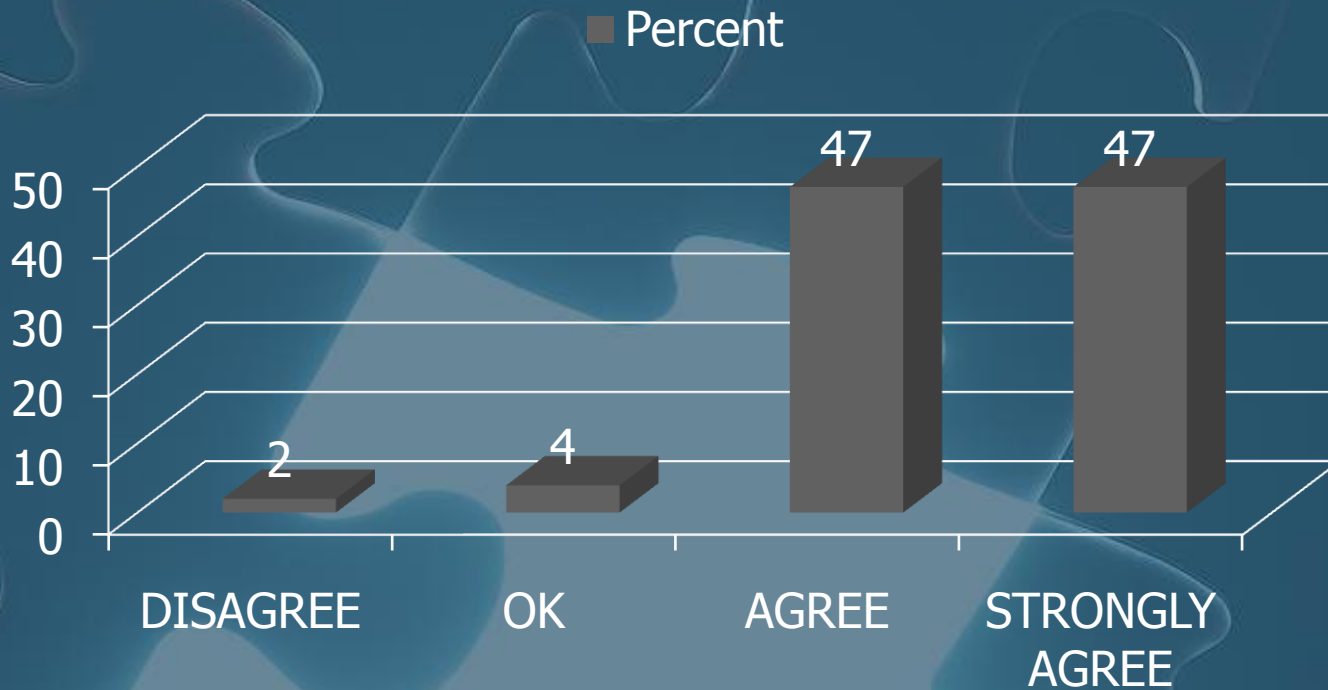


Hand hygiene – First line of defense against hospital acquired infection

# HANDS ARE THE MOST COMMON VEHICLE OF TRANSMISSION OF ORGANISMS

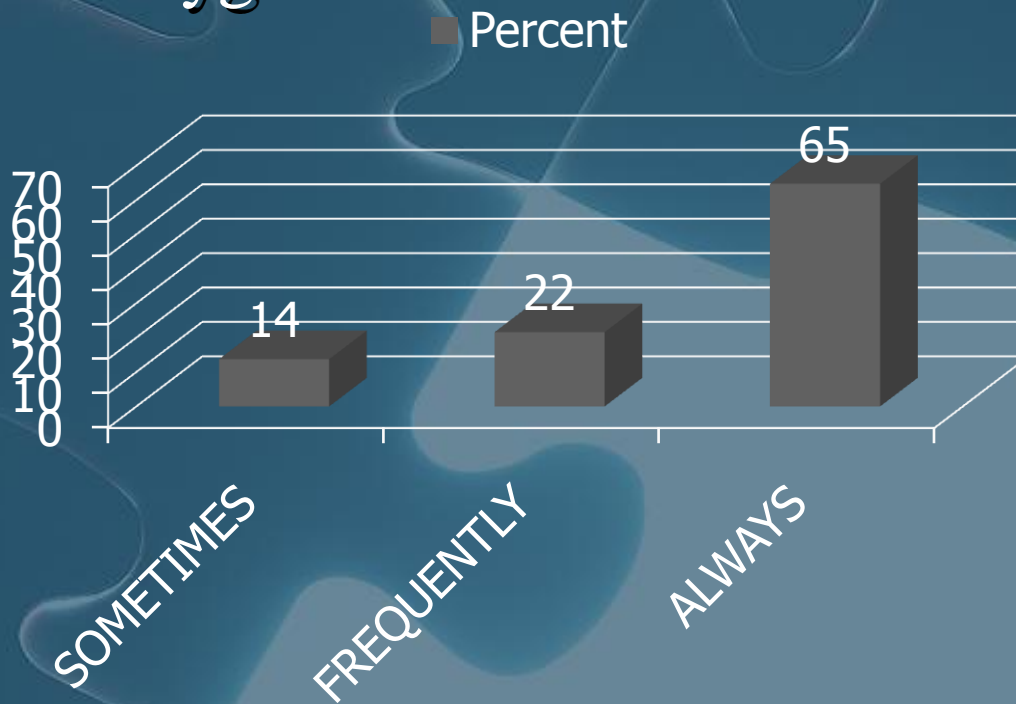


94% staff agreed that hand mediated transmission is the major source of cross infection.

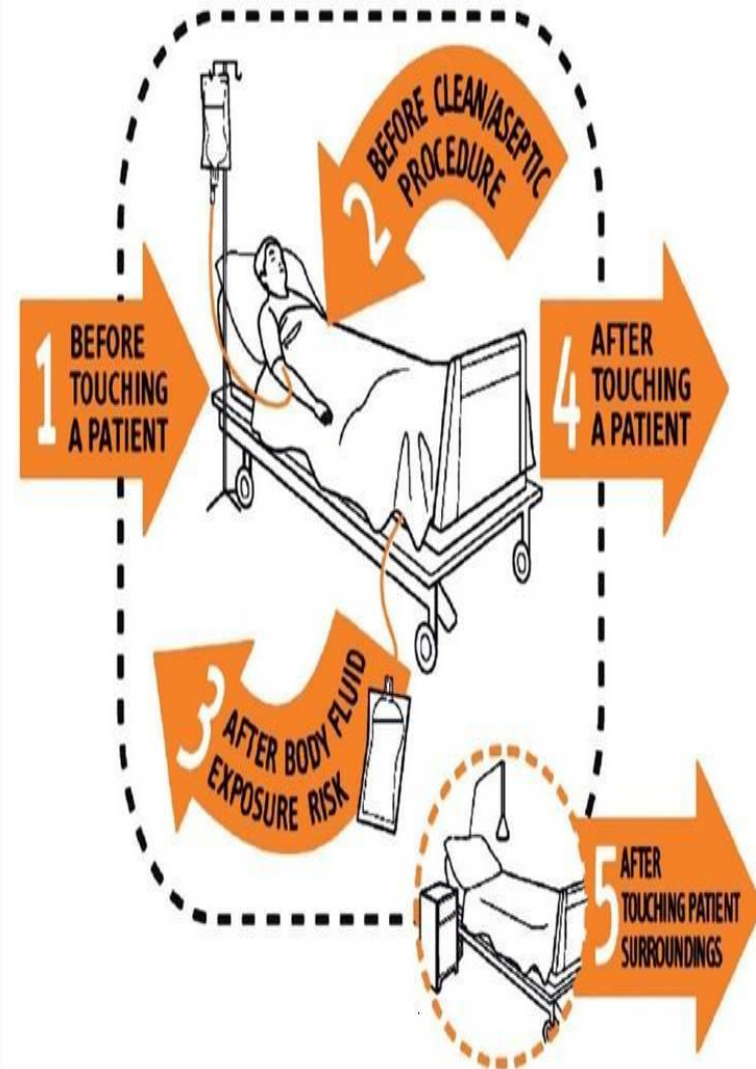


# MOMENTS OF HAND HYGIENE

- According to the questionnaire response 86% of the staff said that they follow all five moments of hand hygiene.

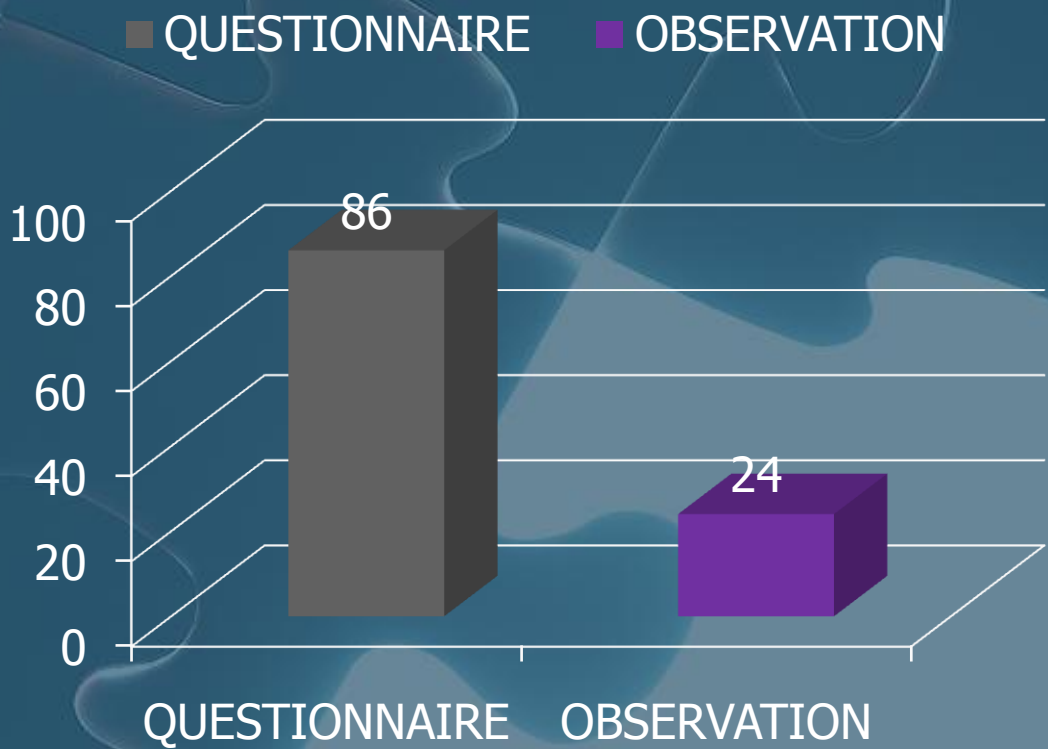


## 5 moments for HAND HYGIENE



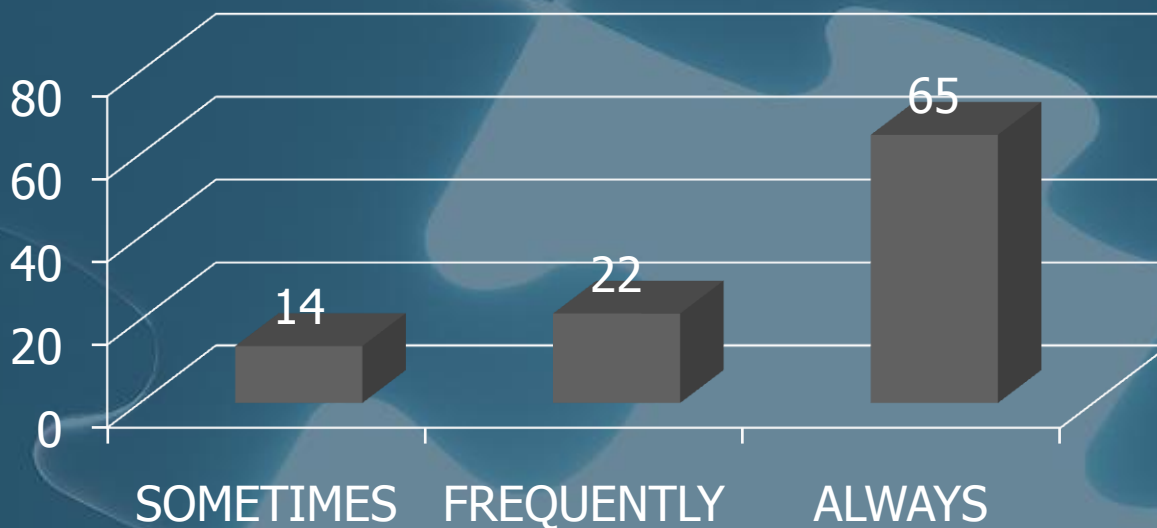


- Only 24% of the ICU staff actually followed it.



# 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.



Six stage handwashing technique



1. Palm to palm



2. Backs of hands



3. Interdigital spaces



4. Fingertips



5. Thumbs and wrists



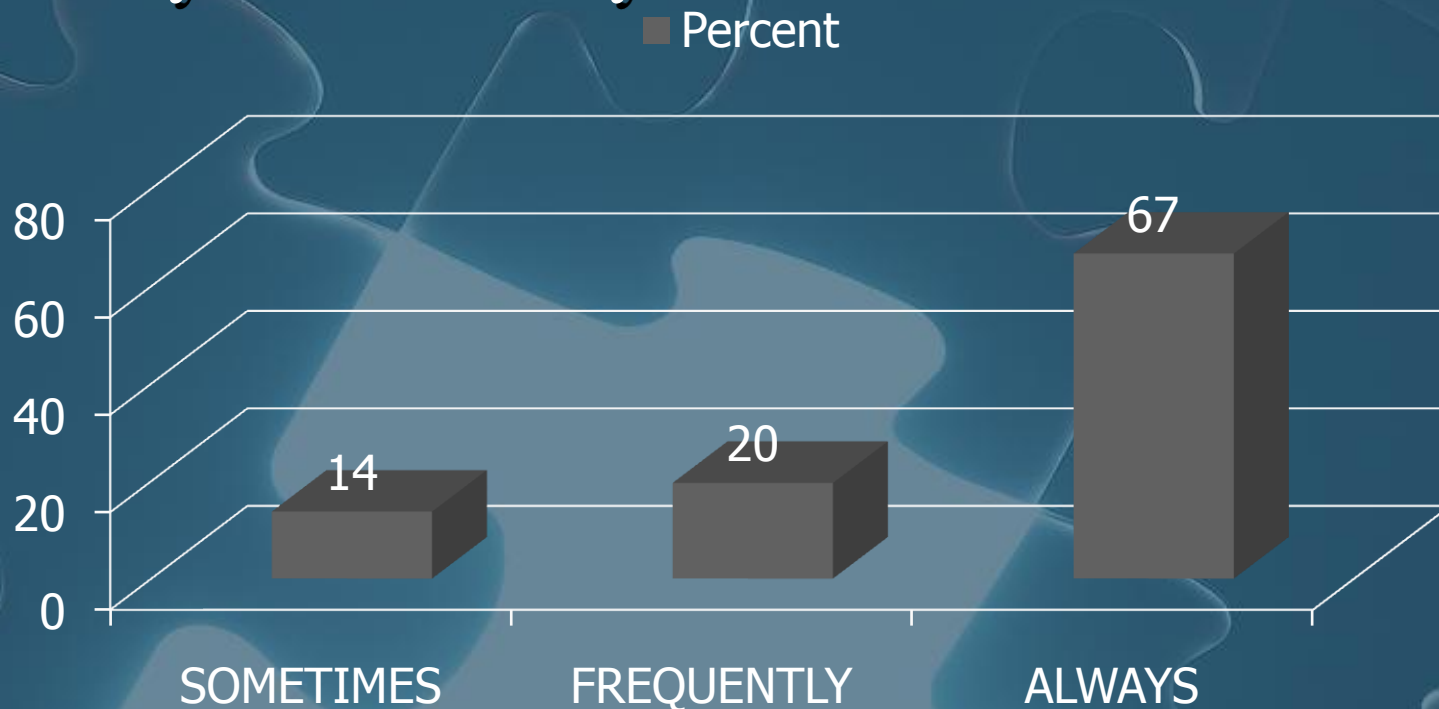
6. Nails

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# GLOVES WEARING/CHANGING

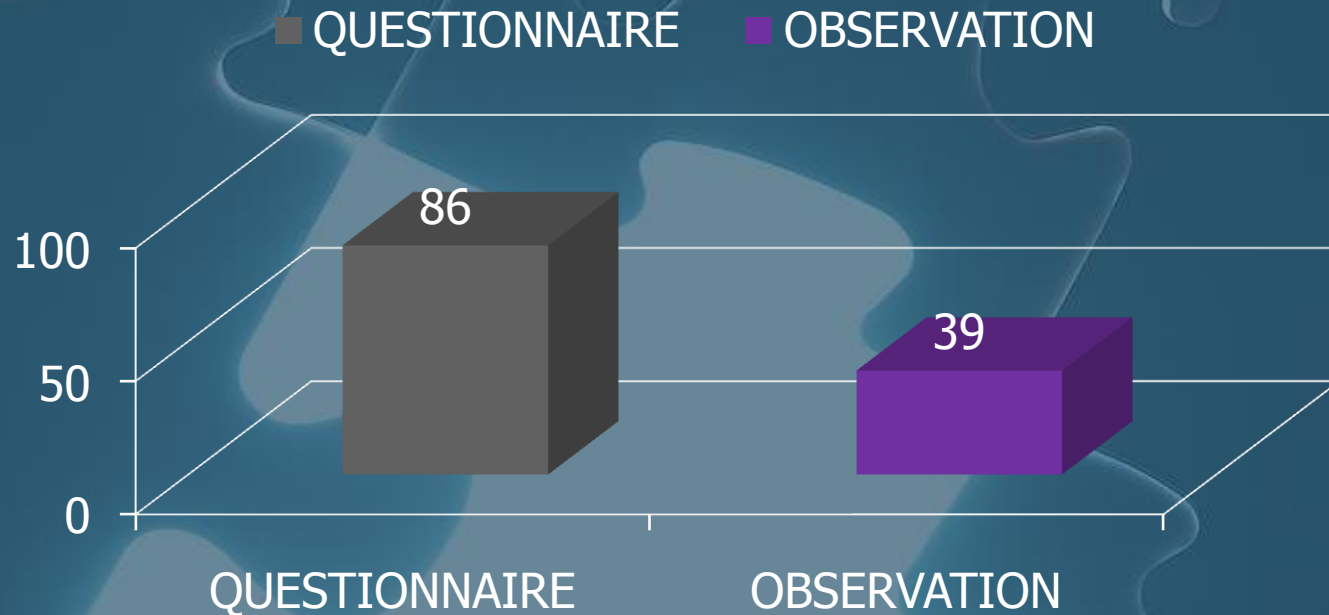


Responding through questionnaire 67% of the staff said they always wear fresh gloves before patient examination while only 14% said they do it sometimes.





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.

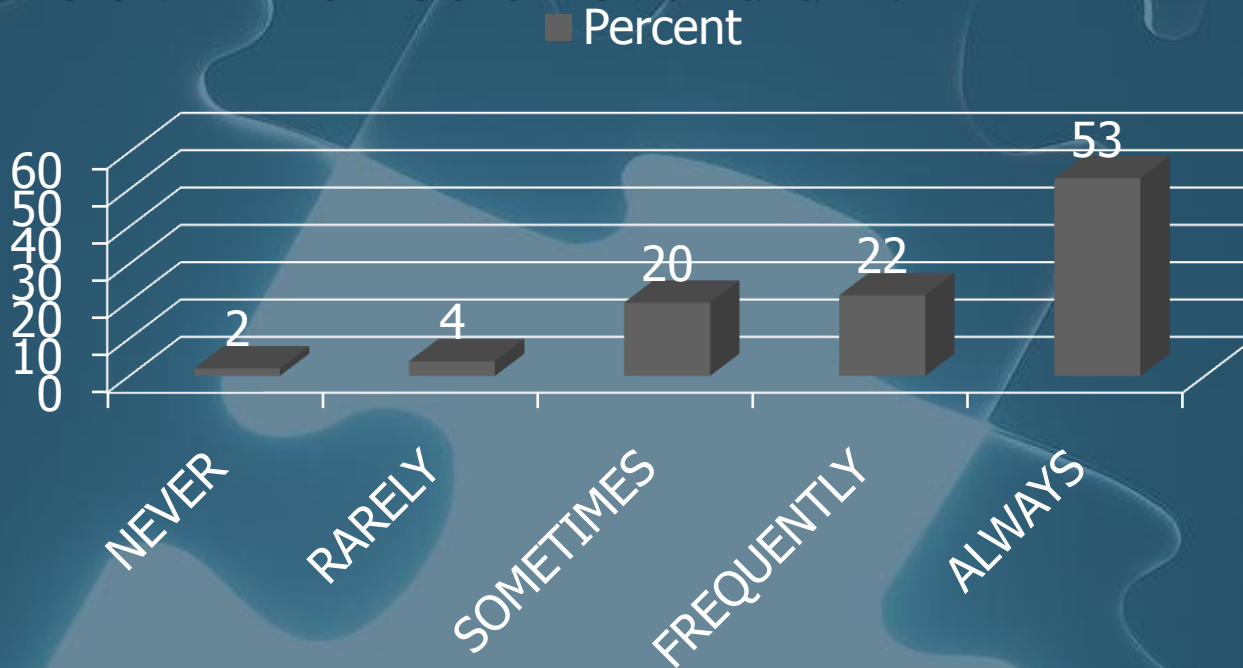




# BIO MEDICAL WASTE MGMT. IN ICU



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.





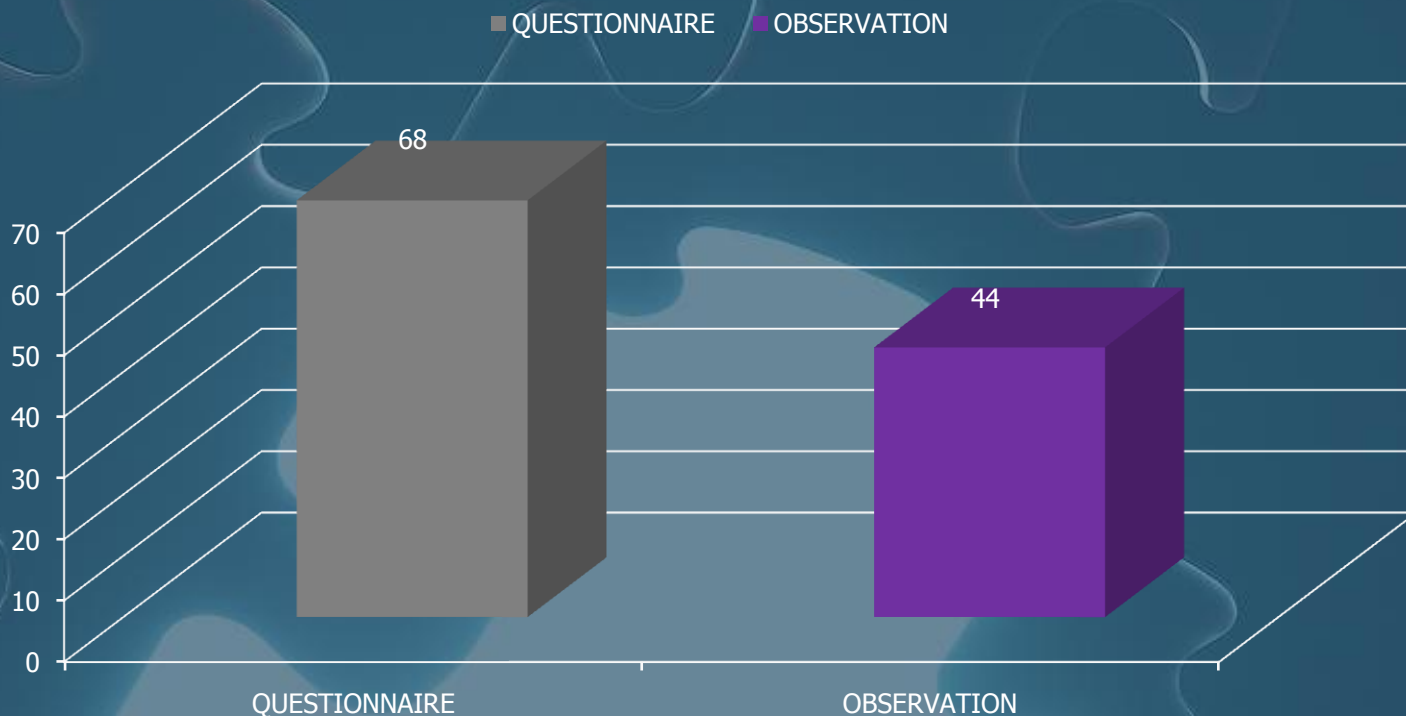


# PATIENT ORAL HEALTH CARE

- Good oral health care reduces colonization of micro organisms 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.



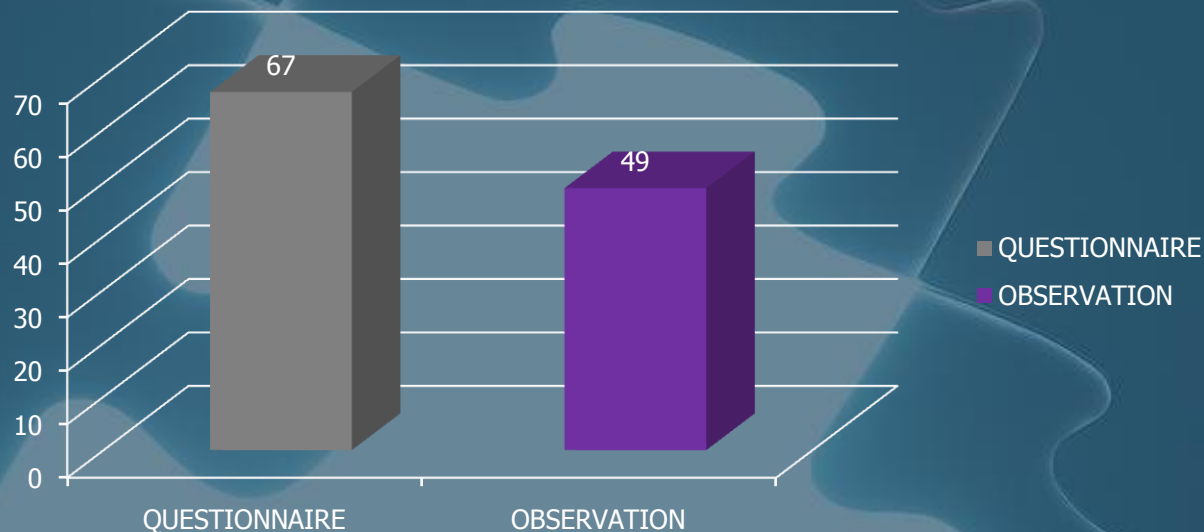
- When asked if the staff followed these patient oral health care practices as per the guidelines/ protocols , 68% agreed to it while in actual practice only 44% did it.



# HEAD END ELEVATION



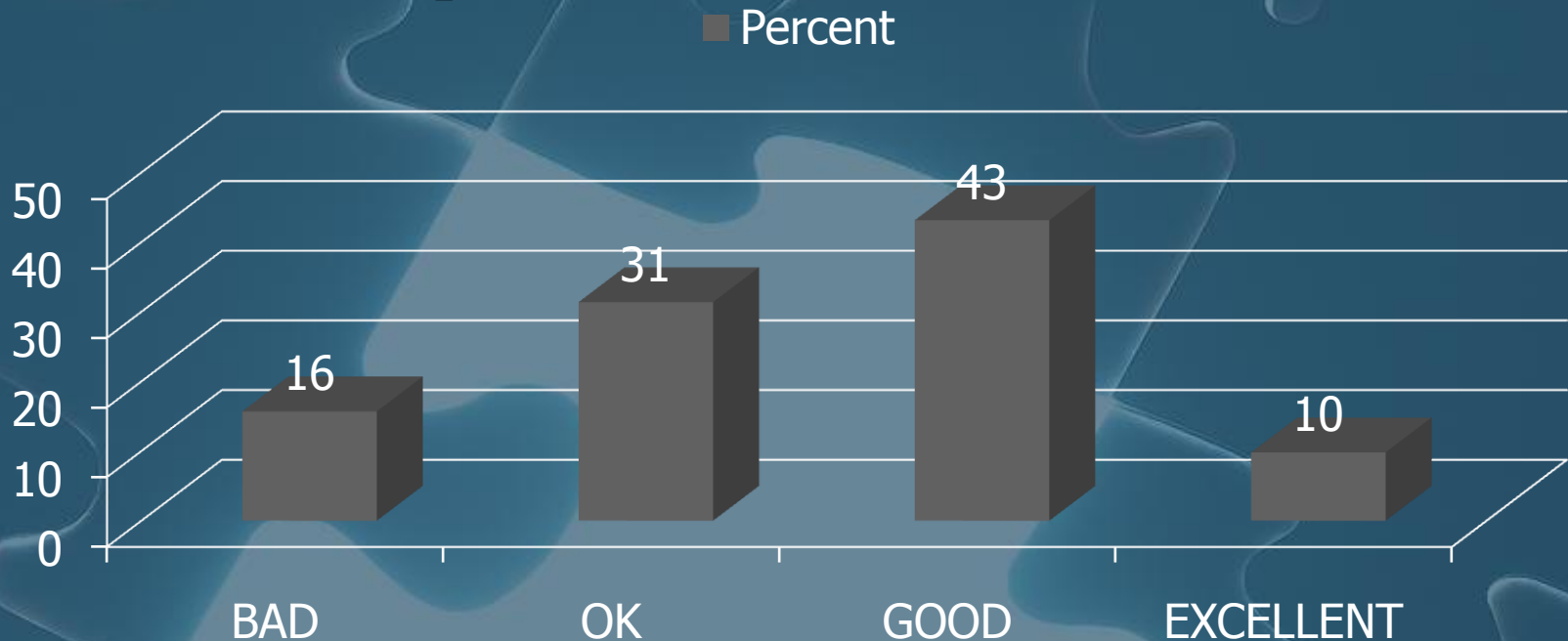
- Elevation of the head of the bed checks micro aspirations in patients and 66% of the ICU staff strongly believed it.
- 67% said that they elevate the head end of the patient who requires it but in actual practice only 49% of the staff does it.



# QUALITY OF SANITATION



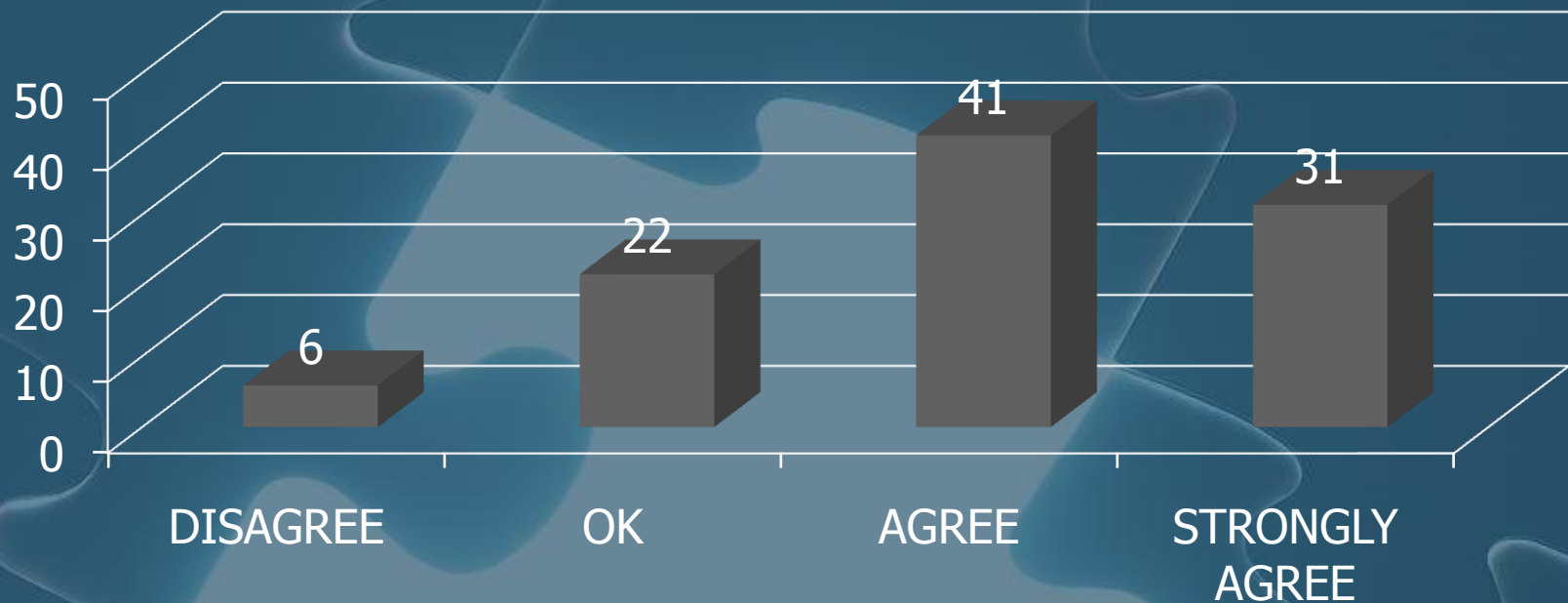
The staff had mixed views about the quality of sanitation services provided in the ICU. Only 10% felt it was excellent, 43% thought it was good, 31% said its OK and 16% felt it was poor.



# STERILIZATION OF EQUIPMENTS

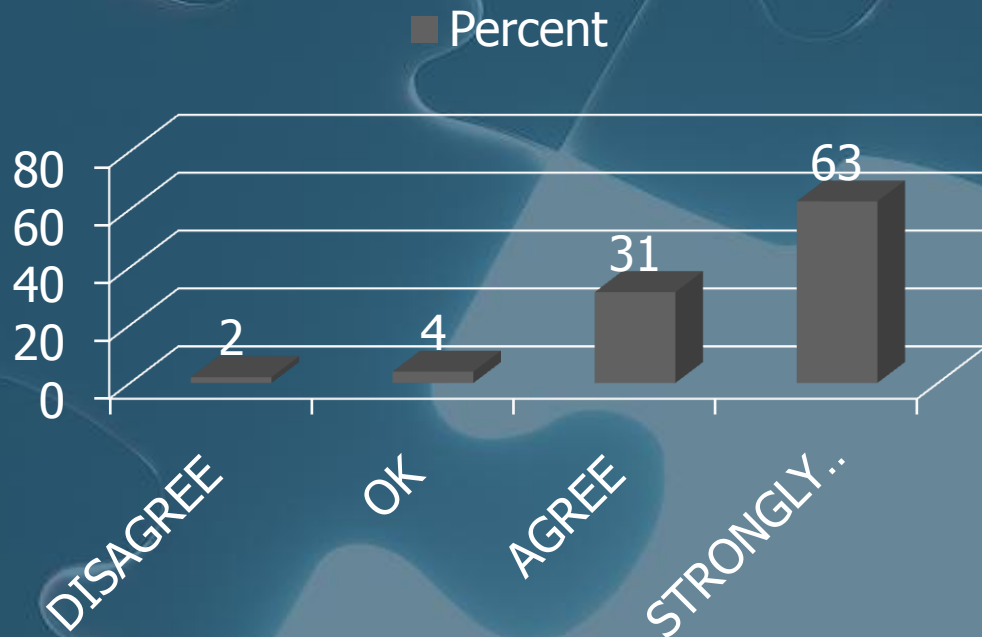


72% staff agreed that all the patient care equipments are sterilized properly in the ICU , 28% did not agree with the above statement.



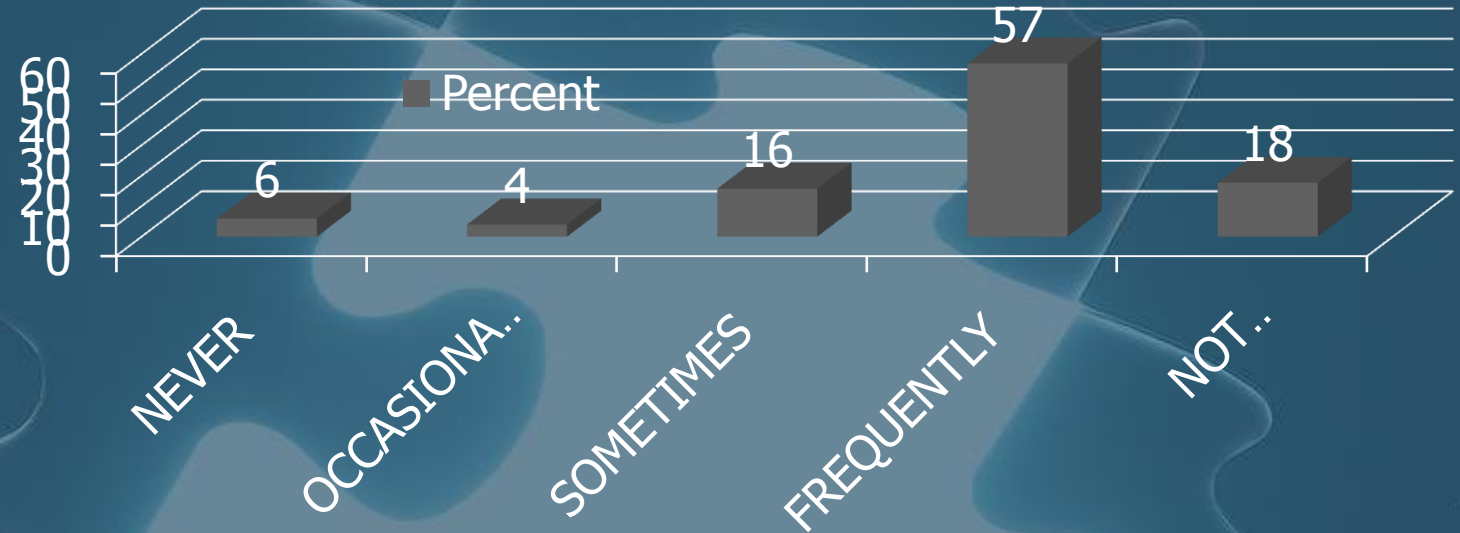
# PATIENT CATHETER CARE

94% of the staff agreed that good catheter care practices help in avoiding various infections in patients.



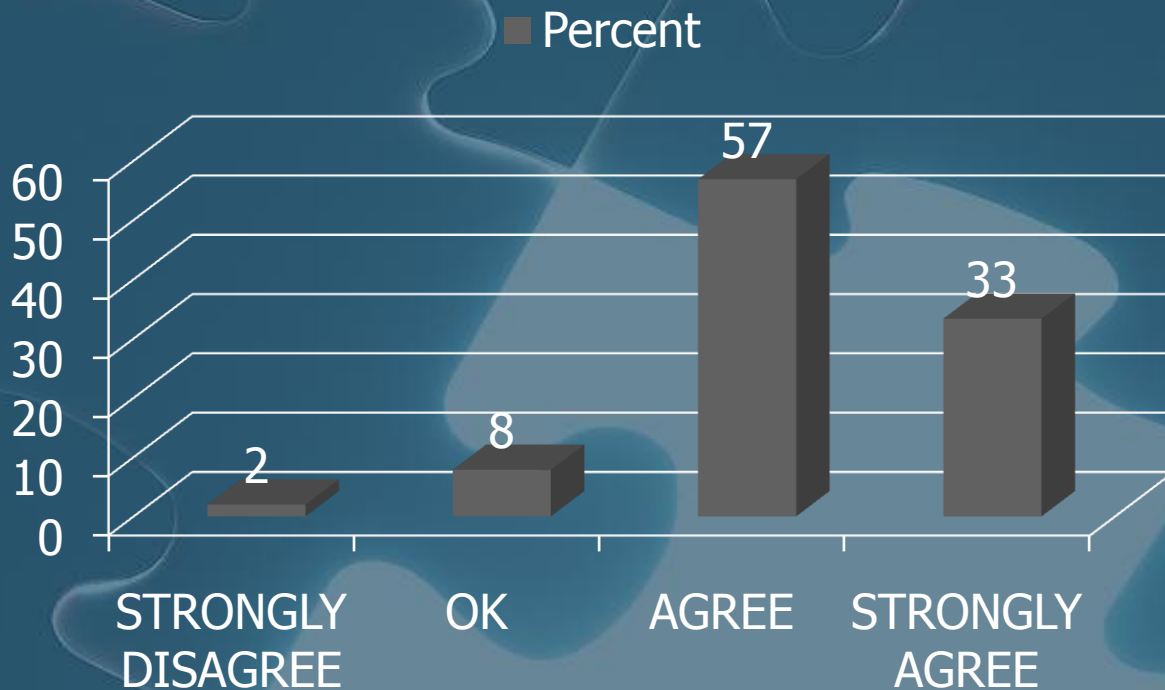


- When asked from the staff if there are any guidelines/ protocols for catheter care in the ICU, 78% said yes, 8% said no and 14% did not know about it.
- 57% said they frequently follow these while 4% did it only occasionally.



# INFECTION CONTROL TRAINING

When asked if CMEs , training programmes and awareness campaigns are helpful in preventing infection in ICU, 90% of the staff agreed to it.







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



**THANK YOU**

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