TITLE:

AN AUDIT OF HAND HYGIENE COMPLIANCE AT VANUATU NATIONAL REFERRAL HOSPITAL

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- ☐ The US Centre for Disease Control note that a significant number people get infections whilst receiving health care
 - Globally, approximately 2 million patients get hospital-acquired infections (HAI) annually
 - 90,000 patients will die from these infections (Stone, 2009)
- ☐ Hospital-acquired infections have significant effects on patients and hospitals
- These include:
 - Increased numbers of deaths and sicknesses
 - Longer hospital stays
 - ☐ Higher healthcare costs



- Many HAIs are transmitted on the hands of healthcare workers.
- Hand hygiene is an important infection control measure in hospital settings
- Effective hand hygiene
 - ☐ Stops the transmission of harmful germs to patients
 - ☐ Prevents health care-associated infections



The WHO suggests that hand hygiene improvement programs can prevent up to 50% avoidable infections acquired during health care delivery and generate economic savings on average 16 times the cost of implementation



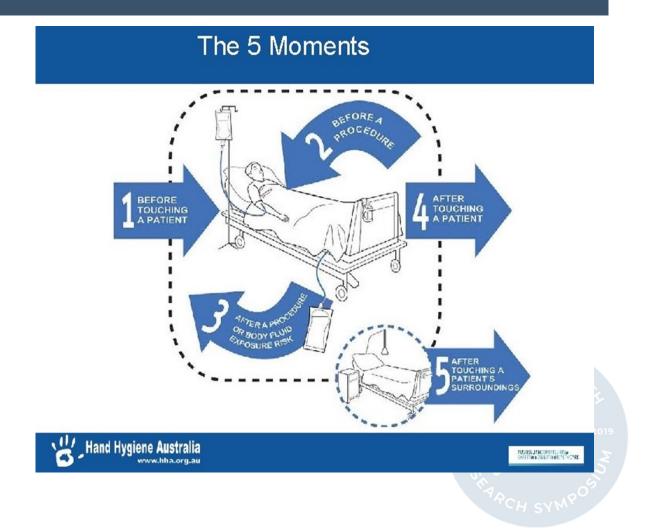
- In 2022, Vila Central Hospital (VCH) implemented a hand hygiene audit between June and July 2022
 - This audit was supported by Pacific Community (SPC)
- The purpose of this study is to describe the findings of this audit and their relevance to hygiene measures at VCH

METHODS

- A baseline audit was conducted to assess hand hygiene compliance rates across three wards at VCH:
 - NICU
 - Medical
 - Surgical
- □ Data was collected by 5 staff members who completed a hand hygiene workshop provided by HH Australia
 - They are considered HHA Gold Standard Compliance Auditors and Assessors
- ☐ They observed a targeted group of health care workers for one hour
 - Doctors, nurses, nurse aids, student nurses, lab officers, physiotherapists, porters and cleaners

METHODS

- Hand hygiene compliance was assessed based on the WHO's "5 moments for hand hygiene" model
- The 5 moments are defined as:
 - Before touching a patient
 - Before performing a procedure
 - After a procedure or a body fluid exposure risk
 - After touching a patient
 - After touching the patient's surrounding



METHODS

- Auditors observed 595 hand hygiene moments in total:
 - NICU = 196
 - Surgical = 198
 - Medical = 201
- Hand hygiene was assessed for compliance across each ward and for each of the 5 moments of interest.

RESULTS: OVERALL COMPLIANCE

Total compliance with hand hygiene protocols across all wards was 23%.

Compliance across all wards were:

■ NICU: 34%

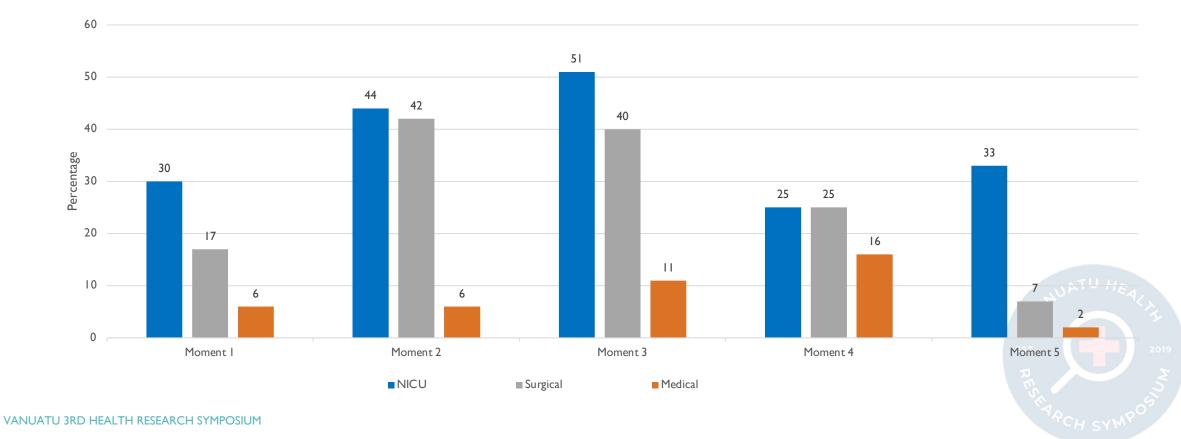
Surgical: 26%

Medical: 8%



RESULTS: BASELINE COMPLIANCE RATE BY MOMENT -NICU, MEDICAL & SURGICAL WARDS

Baseline Compliance Rate (%) by Moment - VCH Pilot Wards - NICU, Surgical, Medical - June-July 2022



- Overall hand hygiene compliance was 23%
 - Therefore only 1:4 interactions with patients meet appropriate hygiene standard
- Across the wards, NICU had the highest compliance rate, however all wards showed hand hygiene levels below 50%, which is cause for concern

- Health care staff were more likely to perform appropriate hand hygiene processes
 - Before performing a procedure (Moment 2)
 - After a procedure or a body fluid exposure risk (Moment 3)
- There was less compliance
 - Before touching a patient (Moment I)
 - After touching a patient (Moment 4)
 - After touching the patient's surrounding (Moment 5)



- The result show that we need to improve the overall compliance rate because the low compliance will increase HAI in the wards
- What should be done?
 - More training of personnel
 - Repeated audits
 - An audit of resources
 - Define best practice and set compliance goals into the future



- What are the benefits of improving hand hygiene?
 - Improve patient recovery
 - Reduces stay time
 - Reduce repeat surgery
 - Frees up beds
 - Reduces load on staff
 - Saves on medication
 - Reduces risk to staff



RECOMMENDATIONS / IMPLICATIONS

- Staff Education on Hand Hygiene
- Improve Hand Hygiene :
 - Infrastructure
 - Hand Hygiene supplies
- Repeat Auditing



CONCLUSION

- Hand hygiene is important, and good hand hygiene management will have benefits for patients, staff, and the hospital
- To date, there has been no hand hygiene compliance program at VCH
 - This study represents the first project of its kind into the state of hand hygiene
- These data have shown that hand hygiene compliance needs to be improved across the hospital
 - All wards showed compliance rates below 50%
- On going auditing, research and training of staff is needed to ensure that VCH is providing gold standard hygienic care to patients into the future

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