

# Comparison of Hand Hygiene Compliance between Health-Care Professionals in Medical Department Sarawak General Hospital

NMRR ID: NMRR-18-1211-41796

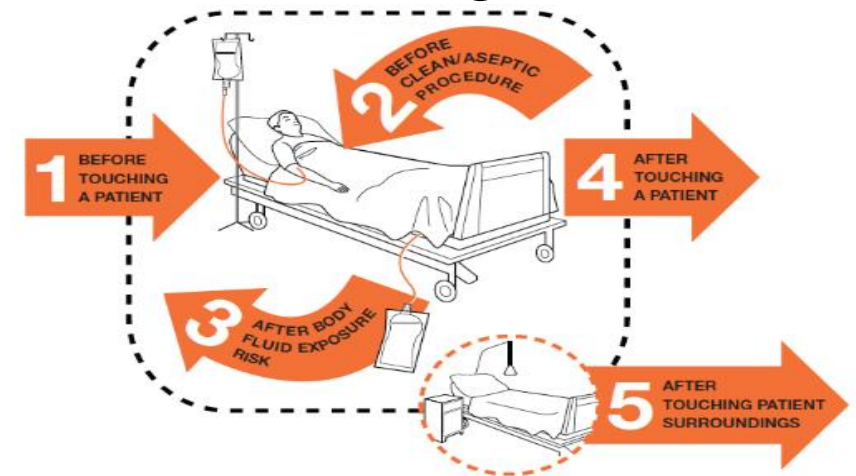
**Rita S Binti Muhamad Rizal<sup>1</sup>, Monica Then Yung Li<sup>1</sup>**

<sup>1</sup> Clinical Research Centre, Sarawak General Hospital, Kuching Sarawak, Malaysia



# Background

- **Hand hygiene practices** among health care professionals is an **effective measure to prevent Hospital Acquired Infections (HAI)**.<sup>1</sup>
- **Five moments** of hand hygiene by World Health Organization (WHO)
  - Before patient contact
  - Before performing aseptic task
  - After body fluid exposure risk
  - After patient contact
  - After contact with patient surroundings



1. Shinde, M. B., & Mohite, V. R. (2014). A Study to Assess Knowledge, Attitude and Practices of Five Moments of Hand Hygiene among Nursing Staff and Students at a Tertiary Care Hospital at Karad. *International Journal of Science and Research*, 3(2), 311-321.

# Significance of Study

- HAI increase from 2016 to 2017 by number of cases (Total Admission 62125)
- Based on High Alert Organism Report (Alert Organism Form Ministry of Health Malaysia MDRO/KKM/2012/1)

Type of Microorganism	2016	2017	Number of Cases Increase by
MRSA-HA	95	124	<b>29</b>
ESBL- <i>Klebsiella Pneumonia</i>	371	397	<b>26</b>
ESBL- <i>E.Coli</i>	122	137	<b>15</b>

# Study Objective

- To determine **hand hygiene compliance** between health care professionals in Medical Department, Sarawak General Hospital (SGH)
  - To compare hand hygiene compliance **among healthcare professionals** in Medical Department Sarawak General Hospital.
  - To compare hand hygiene compliance **between different wards** under Medical Department Sarawak General Hospital.
  - To identify the **implication** of hand hygiene non-compliance among health care professionals toward patient safety in the ward.

# Study Methods

- **An observational study**
  - Secondary Data from Infection Control Unit, SGH
  - Results from Hand Hygiene Audit throughout year 2017
- **Medical Department**
  - Medical 4, Medical 3, Female Medical, Male Medical, Haematology, Infectious Diseases Ward
- **Study population**
  - Doctors, Nurses and other Allied Health Professionals

# Hand Hygiene Audit

- **Direct observation** of hand hygiene compliance
- **Convenient sampling** during office hour
- Carried out by Infection Control Link Nurses (ICLN) (every month)
  
- Name of audit forms;
  - Annex 34 Observation Form (WHO)
  - Basic Calculation Form (WHO)
  - Optional Calculation Form (WHO)
  - Laporan Pencapaian Kepatuhan Hand Hygiene Hospital-Hospital Kementerian Kesihatan Malaysia

# Method Analysis



- Study data was analysed by **SPSS<sup>®</sup> version 21**
- Comparison of hand hygiene compliance was done using **One-way ANOVA**
  - Post-hoc analysis was carried out to determine the compliance between the three professions and between the six wards

# Results

Comparison of mean hand hygiene compliance rate among doctors, nurses and allied health professionals

Profession	Hand hygiene compliance rate Mean (SD)	F Statistic <sup>a</sup> (df)	p-value <sup>a</sup>
Doctor	63.73 (18.77)	13.95 (2, 181)	< 0.001
Nurse	80.17 (15.94)		
Allied Health Professionals	73.65 (22.66)		

- The mean compliance rate of **nurses** was significantly **higher** compared to **doctors** ( $p < 0.001$ ).



# Results

Comparison of mean hand hygiene compliance rate different ward under Medical Department Sarawak General Hospital

Ward	Hand hygiene compliance rate Mean (SD)	F Statistic <sup>a</sup> (df)	p-value <sup>a</sup>
Medical 4	68.66 (19.88)	6.04 (5, 178)	< 0.001
Medical 3	69.61 (21.87)		
Female Medical	64.23 (15.32)		
Male Medical	67.32 (19.45)		
Haematology	76.82 (18.80)		
ID ward	87.17 (15.91)		

- The mean compliance rate of **ID ward** was **significantly higher** than Medical 4 (p= 0.003), Medical 3 (p= 0.005), Female medical (p<0.001) and Male medical (p= 0.001).

# Discussion

- Hand hygiene **highest** among **nurses** related to;
- ✓ **Opportunities** of hand hygiene performed
- ✓ Differences in **attitudes** toward hand hygiene
- ✓ Regularly **attending** the training and courses

Mu, X. et al. (2016). Improving hand hygiene compliance among healthcare workers: an intervention study in a Hospital in Guizhou Province, China. *The Brazilian Journal of Infectious Disease*, 414-418.

Rios, N. S., & Aguilera, G. (2017). Nurses' perceptions of reasons for persistent low rates in hand hygiene compliance. *Intensive and Critical Care Nursing: International Journal of Research and practice*, 1-5.

# Discussion



- How to improve compliance of hand hygiene?
- ✓ Continue **monitoring** and **education program** related to hand hygiene
- ✓ Ensure all professionals are **knowledgeable, maintain positive attitude**
- ✓ **Practicing** five moments of hand hygiene

- Hand hygiene compliances rate **highest** in **ID Ward** ;
- ✓ Mostly infectious cases in ID ward
- ✓ Staff will **plan** well all the procedure in order to limit their contact with patients
- ✓ Staffs are **trained better** and **more knowledgeable** in handling infectious cases

Bahal, A. et al. (2007). Hand hygiene compliance: universally better post-contact than pre contact in healthcare workers in the UK and Australia. *British Journal of Infection Control*, 8(1).

Awoke, N. et al. (2018). Nurses Practice of Hand Hygiene in Hiwot Fana Specialized University Hospital, Harari Regional State, Eastern Ethiopia: Observational Study.

[Online]. Available: <https://www.hindawi.com/journals/nrp/2018/2654947/>. [2018, July, 29].

# Conclusion



- Hand hygiene compliances are **correlated** with HAI in Medical Department of SGH
- Compliance rate of hand hygiene is the **highest** among **nurses** and in **ID Ward**

# Acknowledgements

- Infection Control Unit, Sarawak General Hospital
- Matron Mary William (U42), Infection Control Unit Sarawak General Hospital
- Nursing Sister Pauline Angelyna Peter (U32), Infection Control Unit Sarawak General Hospital
- Nursing Sister Rosnah Binti Mohidin (U32), CRC Sarawak General Hospital
- Ms Lim Chien Joo, Biostatisticians, CRC Sarawak General Hospital
- Staff Nurses from Infection Control Unit Sarawak General Hospital
- Dr Alan Yean Yip Fong, Consultant Cardiologist & CRC Head of Department
- Staffs from Medical Department Sarawak General Hospital



# References

Awoke, N. et al. (2018). Nurses Practice of Hand Hygiene in Hiwot Fana Specialized University Hospital, Harari Regional State, Eastern Ethiopia: Observational Study. [Online]. Available: <https://www.hindawi.com/journals/nrp/2018/2654947/>. [2018, July, 29].

Bahal, A. et al. (2007). Hand hygiene compliance: universally better post-contact than pre contact in healthcare workers in the UK and Australia. *British Journal of Infection Control*, 8(1).

Mu, X. et al. (2016). Improving hand hygiene compliance among healthcare workers: an intervention study in a Hospital in Guizhou Province, China. *The Brazilian Journal of Infectious Disease*, 414-418.

Pittet, D. et al. (2004). Hand hygiene among physicians: performance, beliefs and perceptions. *Annals of Internal Medicine*, 141, 1–8.

Rios, N. S., & Aguilera, G. (2017). Nurses' perceptions of reasons for persistent low rates in hand hygiene compliance. *Intensive and Critical Care Nursing: International Journal of Research and practice*, 1-5.

Shinde, M. B., & Mohite, V. R. (2014). A Study to Assess Knowledge, Attitude and Practices of Five Moments of Hand Hygiene among Nursing Staff and Students at a Tertiary Care Hospital at Karad. *International Journal of Science and Research*, 3(2), 311-321.

World Health Organization. (2009) Guideline on hand hygiene in health care. Geneva: WHO Press.



THANK YOU



# Basic Compliance Calculation

use by health-care facilities that do not have information technology tools for collecting and analysing electronic data. The tool is designed to produce global compliance results broken down by professional category and indication. However, it may also be used to subdivide the results by setting.

Compliance with hand hygiene is the ratio of the number of performed actions to the number of opportunities as expressed by the following formula:

$$\text{Compliance (\%)} = \frac{\text{Performed actions}}{\text{Opportunities}} \times 100$$

On the Observation Form, the indications observed are classified as opportunities for hand hygiene (the denominator), against which the positive hand hygiene action is set (the action serving as the numerator).

Results for compliance may be calculated globally but also broken down by professional category and setting. Thus when health-care

# World Alliance for Patient Safety

## Annex 34 Observation Form

➤ World Health  
Organization

WORLD ALLIANCE  
FOR PATIENT SAFETY



ANNEX 34

### OBSERVATION FORM

Country			City			Hospital			Site ID		
Observer (initials)				Period No.				Department			
Date (dd.mm.yyyy)				Session No.				Service name			
Start/End time (hh:mm)				Form No.				Ward name			
Session duration (min)											
Medical Code Number			Proced. Code Number			Proced. Code Number			Proced. Code Number		
Opp	Indication	Action	Opp	Indication	Action	Opp	Indication	Action	Opp	Indication	Action
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed
<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> bef-pat. <input type="checkbox"/> bef-asept. <input type="checkbox"/> aft-bluid <input type="checkbox"/> aft-pat. <input type="checkbox"/> aft-sur.	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed	<input type="checkbox"/> rub <input type="checkbox"/> wash <input type="checkbox"/> missed





**LAPORAN PENCAPAIAN KEPATUHAN HAND HYGIENE  
HOSPITAL-HOSPITAL KEMENTERIAN KESIHATAN MALAYSIA**

**HOSPITAL : HOSPITAL UMUM SARAWAK**

**MONTH / YEAR : \_\_\_\_\_**

# Laporan Pencapaian Kepatuhan Hand Hygiene Hospital- Hospital Kementerian Kesihatan Malaysia

No.	Department / Hospital	No. of Actions (Wash or Rub)	No. Of Opportunities	Compliance (%)
1.	Medical			
2.	Surgical			
3.	Orthopaedic			
4.	Paediatric			
5.	O&G			
6.	Anaesthesiology			
7.	Nursing ( all opportunities from nursing category)			
8.	Others			
9.	Overall Hospital Performance ( including other departments)			

Laporan disediakan oleh:

Tandatangan :

Nama :

Cop Jawatan :

Tarikh :

Disahkan Oleh :

Tandatangan :

Nama :

Cop Jawatan :

Tarikh :