

KNOWLEDGE AND PRACTICE OF HAND HYGIENE AMONG DOCTORS AND HEALTH CARE WORKERS

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**80% of
infectious
diseases**



are
transmitted
by touch.

Wash hands for at least
20 seconds for proper
hand hygiene.



INTRODUCTION

INTRODUCTION

Hospital Associated infections kill more than road traffic accidents.

Global research indicates that improvement in hand hygiene activities could potentially reduce HAI rates by up to 50%.

Hands are the most common vehicle of transmission of organisms. proper hand hygiene is an important for prevention of nosocomial infection.

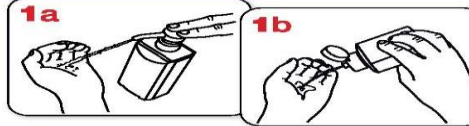
Hand Hygiene is single most important aspect of protecting yourself and others from infection transmission.

Hand Hygiene is the act of cleaning hands with or without the use of water or other liquid or soap for the purpose of removing micro organisms.

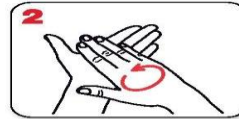
Proper hand hygiene is an important for prevention of nosocomial infections.

Steps of Hand Hygiene

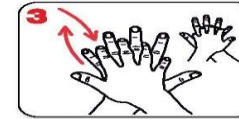
How to handrub? WITH ALCOHOL-BASED FORMULATION



Apply a palmful of the product in a cupped hand and cover all surfaces.



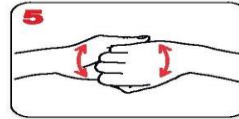
Rub hands palm to palm



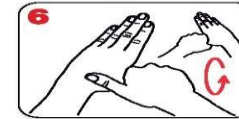
right palm over left dorsum with interlaced fingers and vice versa



palm to palm with fingers interlaced



backs of fingers to opposing palms with fingers interlocked



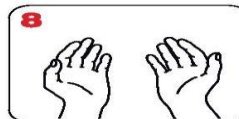
rotational rubbing of left thumb clasped in right palm and vice versa



rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa

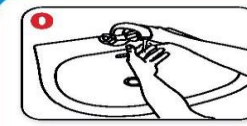


20-30 sec

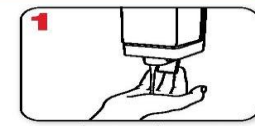


...once dry, your hands are safe.

How to handwash? WITH SOAP AND WATER



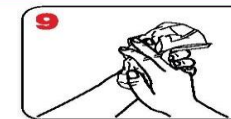
Wet hands with water



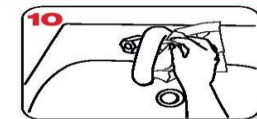
apply enough soap to cover all hand surfaces.



rinse hands with water



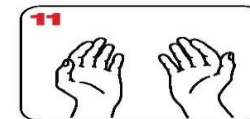
dry thoroughly with a single use towel



use towel to turn off faucet



40-60 sec



...and your hands are safe.

'WHO' my 5
moments of
Hand Hygiene

Your 5 Moments for Hand Hygiene



RESEARCH QUESTION

- What is the Knowledge, of HH techniques among health care workers in Hospital?
- What are the factors for non-compliance of HH among health care workers in Hospital?

RESEARCH OBJECTIVE

- To determine the knowledge of hand hygiene among doctors and Health care workers (Optometrist, Nurses).
- To evaluate Hand Hygiene practices based on “WHO 5 moments of Hand Hygiene”.
- To determine Hand Hygiene Compliance among Nurses.

RESEARCH METHODOLOGY

Study setting- Sankara Eye Hospital Coimbatore

Research Type- Descriptive cross-sectional

Research Period- 3rd February 2020 to 2nd 2020

Sampling size- 150 (35 Doctors, 81 optometrist and 34 Nurses)

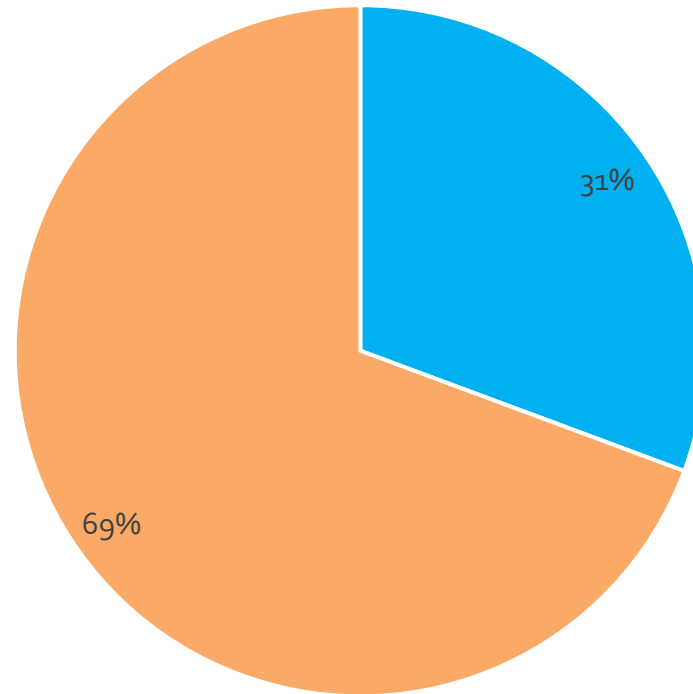
Sampling Technique- Non-probability convenience sampling.

Data collection procedure- The interview was taken through the WHO (World Health Organization) “Hand Hygiene Knowledge Questionnaire” and WHO hand hygiene practices observation form. The Knowledge questionnaire was administered to the doctors, Optometrist, and Nurses. and observation was done on nurses regarding hand hygiene practices.

Data Analysis- The collecting data was analyzed using Microsoft excel.

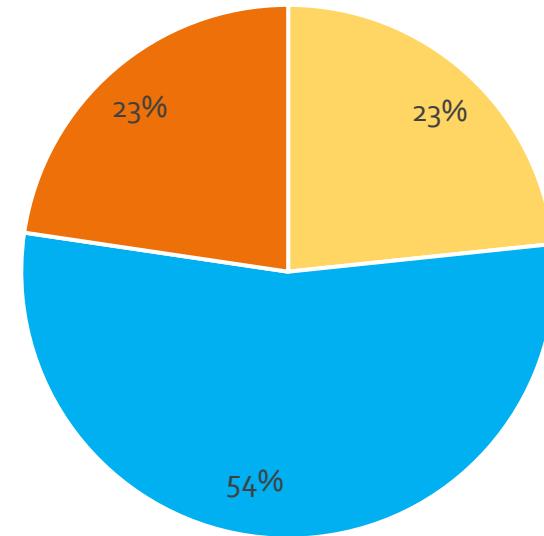
FINDINGS (Demographic Detail)

Gender



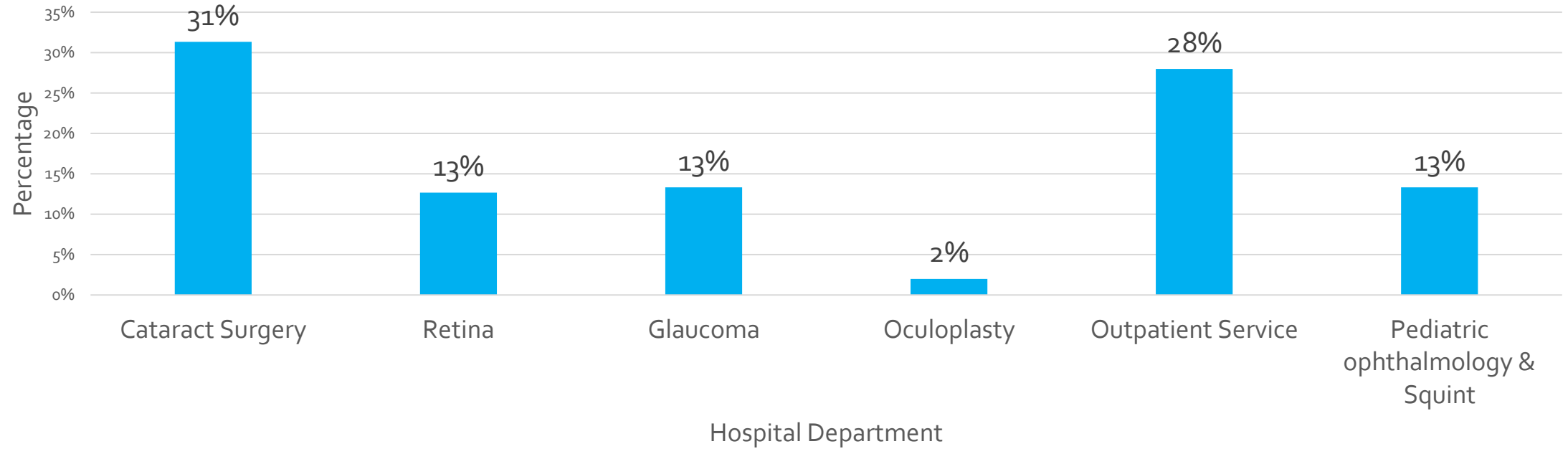
■ Male ■ Female

Profession

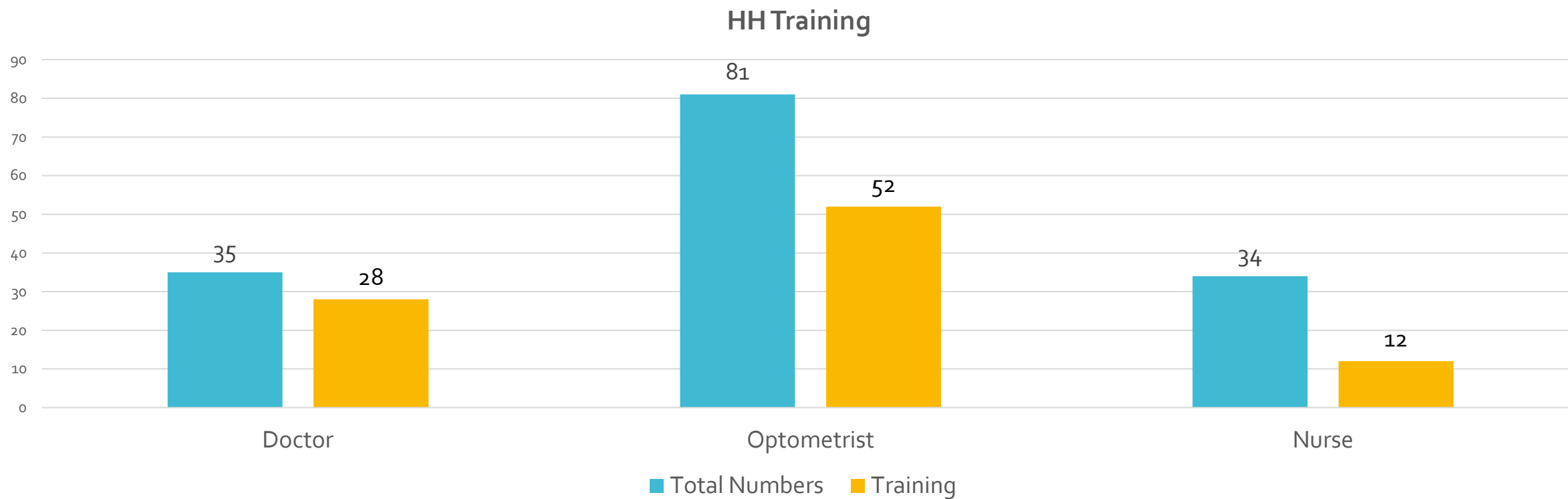


■ Doctor
■ Optometrist
■ Nurse

Percentage of Respondents from different Hospital Departments

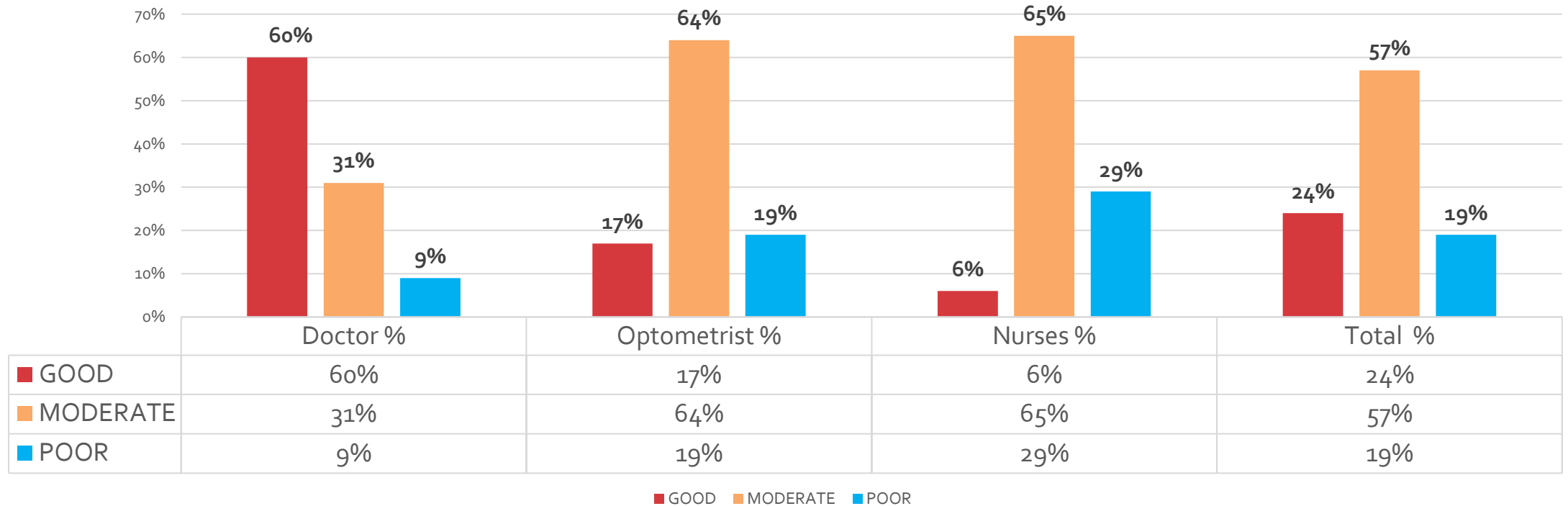


Departments

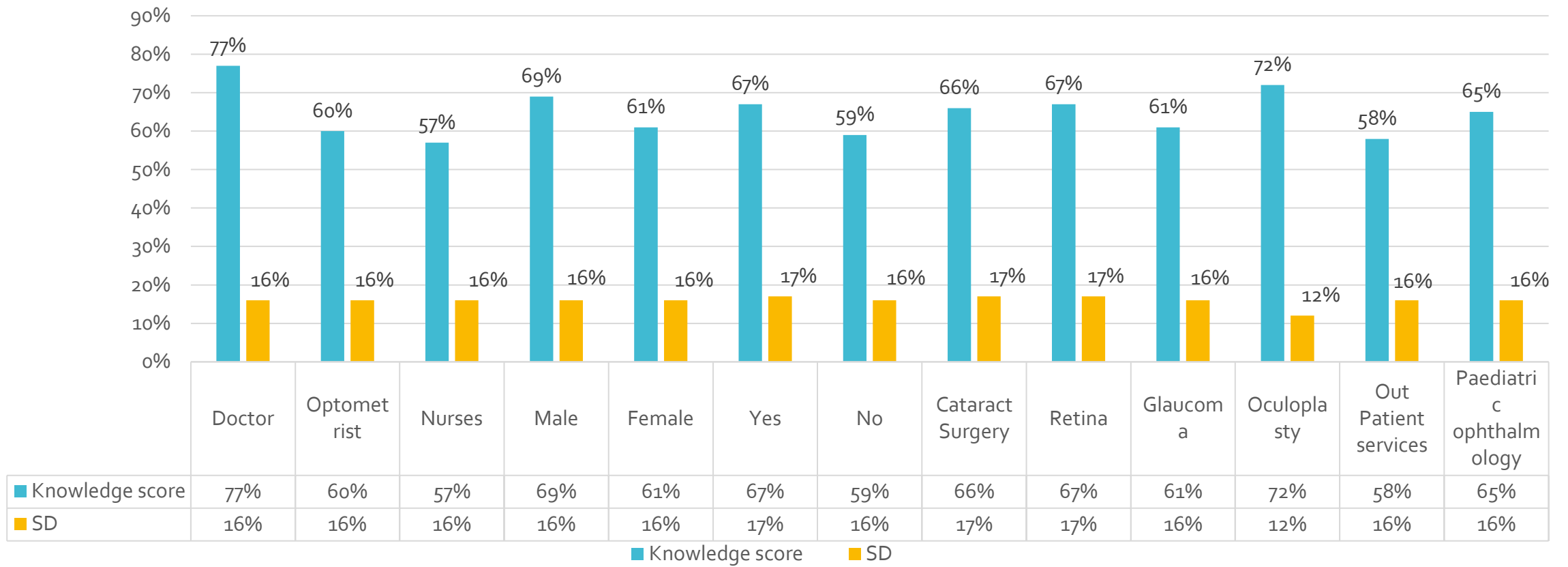


Respondent who attend HH training Programme

Comparison of knowledge level of respondent



Comparison of Knowledge score



Comparison of mean Knowledge score and Standard Deviation

	Before touching a patient	Before clean/aseptic procedures	After body fluid exposure/risk	After touching a patient	After touching the patient's surroundings.	Overall
Correct moments	45	33	55	51	31	215
Observed moments	80	80	80	80	80	400
Compliance Rate	56.25%	41.25%	68.75%	63.75%	38.75%	53.75%

(HHC) = Total no of correct moments/Total number of Observed moments×100

Total Hand Hygiene Compliance rate =215/400×100 = 53.75.

The Compliance rate of ‘WHO’ 5 moments of HH Practices by Healthcare Workers

Respondents who attended hand hygiene training had good knowledge as compared to others. that means training enhances the knowledge level.

20 Seconds is the minimum time required for hand rub. This information was known to only 61% of healthcare workers of whom 80% were doctors, 56 % were optometrists and 47% were nurses, when calculated individually.

Use of alcohol-based hand rub was more among doctors (83%), followed by nurses(62%) and optometrist (58%) when calculated individually. While only 64% of the total respondent were knowing about ABHR in general.

Findings Continued.....

CONCLUSION

- There are so many wrong answers given by the participant so the knowledge regarding hand hygiene amongst healthcare workers is not adequate and there is room for improvement as it is one of the most important techniques in Hand Hygiene.
- It was found that Hand Hygiene compliance was inadequate at only 53.75% despite healthcare workers having good hand hygiene knowledge .

SUGGESTION

5 Component for improving Hand Hygiene strategy-

- 1. System changes
- 2. Training and educations
- 3. Evaluation and feedback
- 4. Reminders in the workplace
- 5. Institutional safety climate

T H A N K Y O U

