



যতকাল রবে পদ্মা যমুনা
গৌরী মেঘনা বহমান
ততকাল রবে কীর্তি তোমার
শেখ মুজিবুর রহমান

শুভ্র
জন্মদিনে
জাতির পিতা





“FACEMASK USAGE AND ITS ADVERSE EVENTS AMONG HEALTHCARE PROFESSIONALS”

Dr. ASM SHAFIUJJAMAN

Junior Consultant (Medicine)

UHC, Pirganj, Rangpur

BACKGROUND

- COVID-19 is spread by respiratory droplets
- Health workers are mandated to wear PPE
- Long term use of mask is necessary but compliance may be low
- Physiologic effects have not been well evaluated



PURPOSE OF THE STUDY

- To assess knowledge regarding types, use, clean & store of mask
- Compliance of face mask
- Subjective effects of prolonged use of mask



METHODOLOGY

- Web based questions distributed electronically
- Total 417 health service providers participated
- From 01'August,2020 to 30'September,2020
- Cross sectional analytical study
- Analyzed by SPSS 23 version

RESULTS

- Male : Female – 3:1
- Doctor 88%, Nurse 5%, Ward boy 5%
- Surgical 87%, KN95 73%, N95 58%,
Cloth made 18%
- 83% used more than one mask at a time



RESULTS

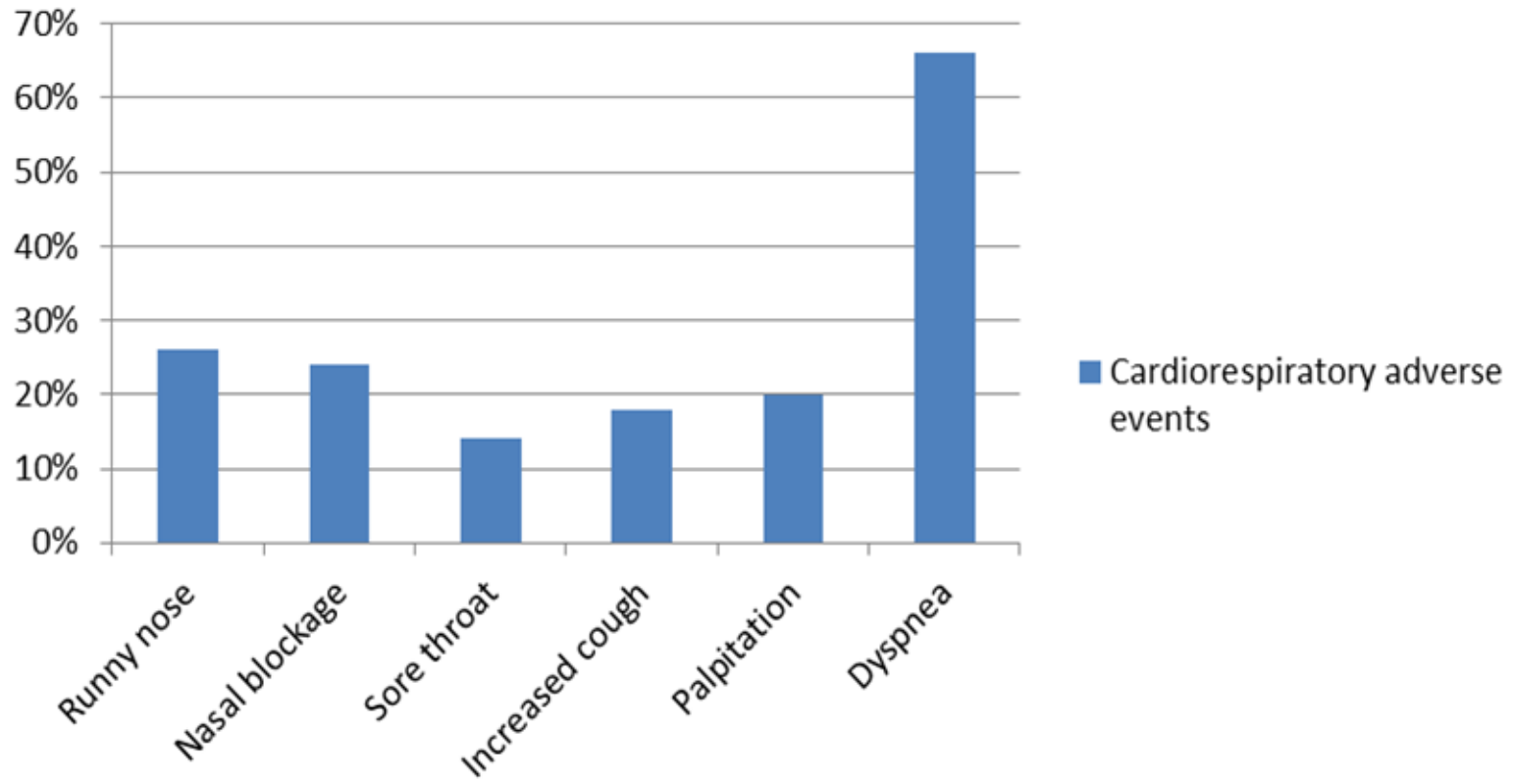
- 25% did not know WHO/CDC guideline
- 38% stored in paper made packet & 23% dried in sunlight
- All had some adverse events



CARDIOPULMONARY ADVERSE EVENTS



Cardiorespiratory adverse events



CARDIOPULMONARY EXPERIENCES

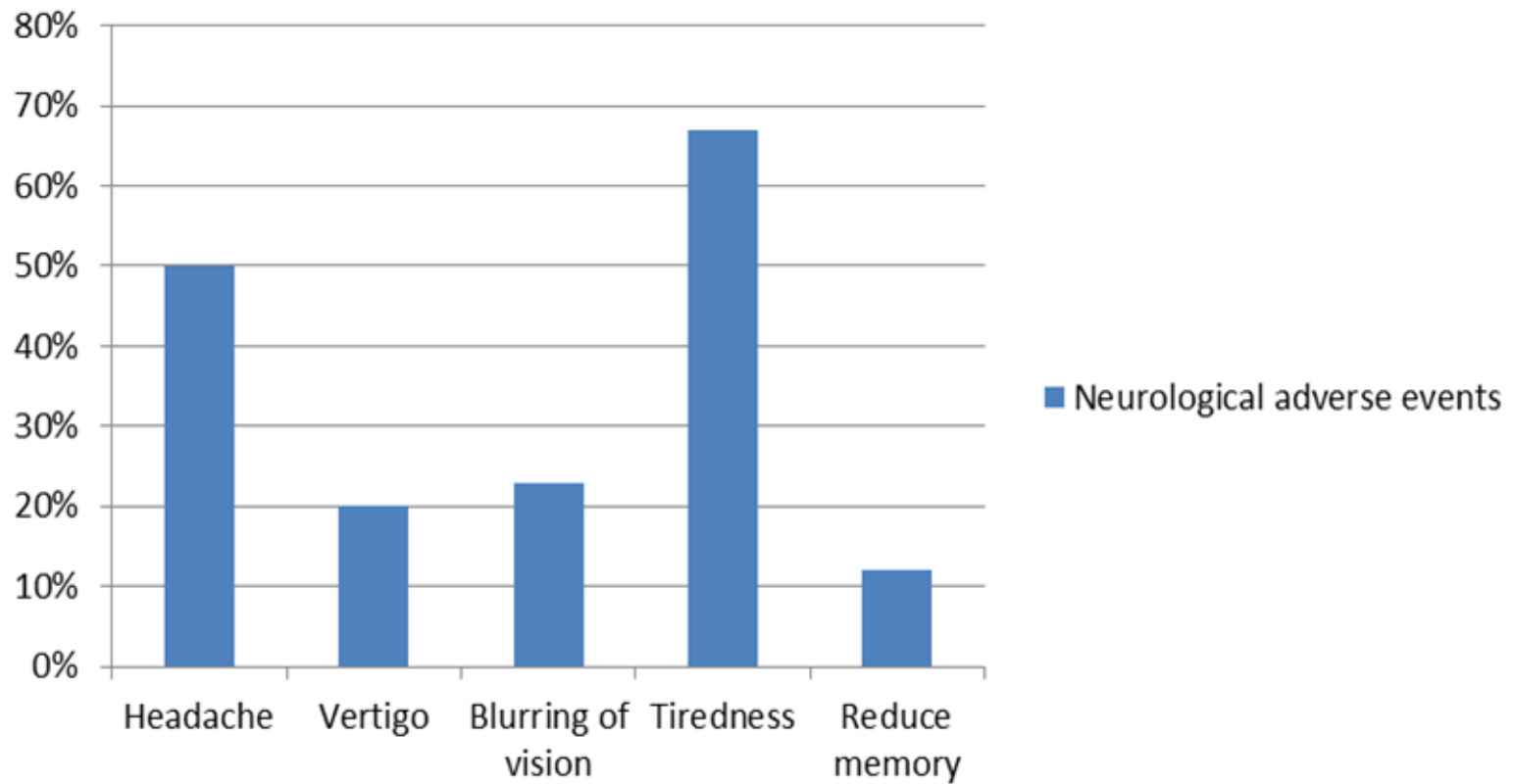
- 66% had dyspnea & 20% palpitation
- Increased cough in 18%
- 26% had runny nose & 24% nasal blockage
- 14% experienced sore throat



NEUROLOGICAL ADVERSE EVENTS



Neurological adverse events



NEUROLOGICAL ADVERSE EVENTS

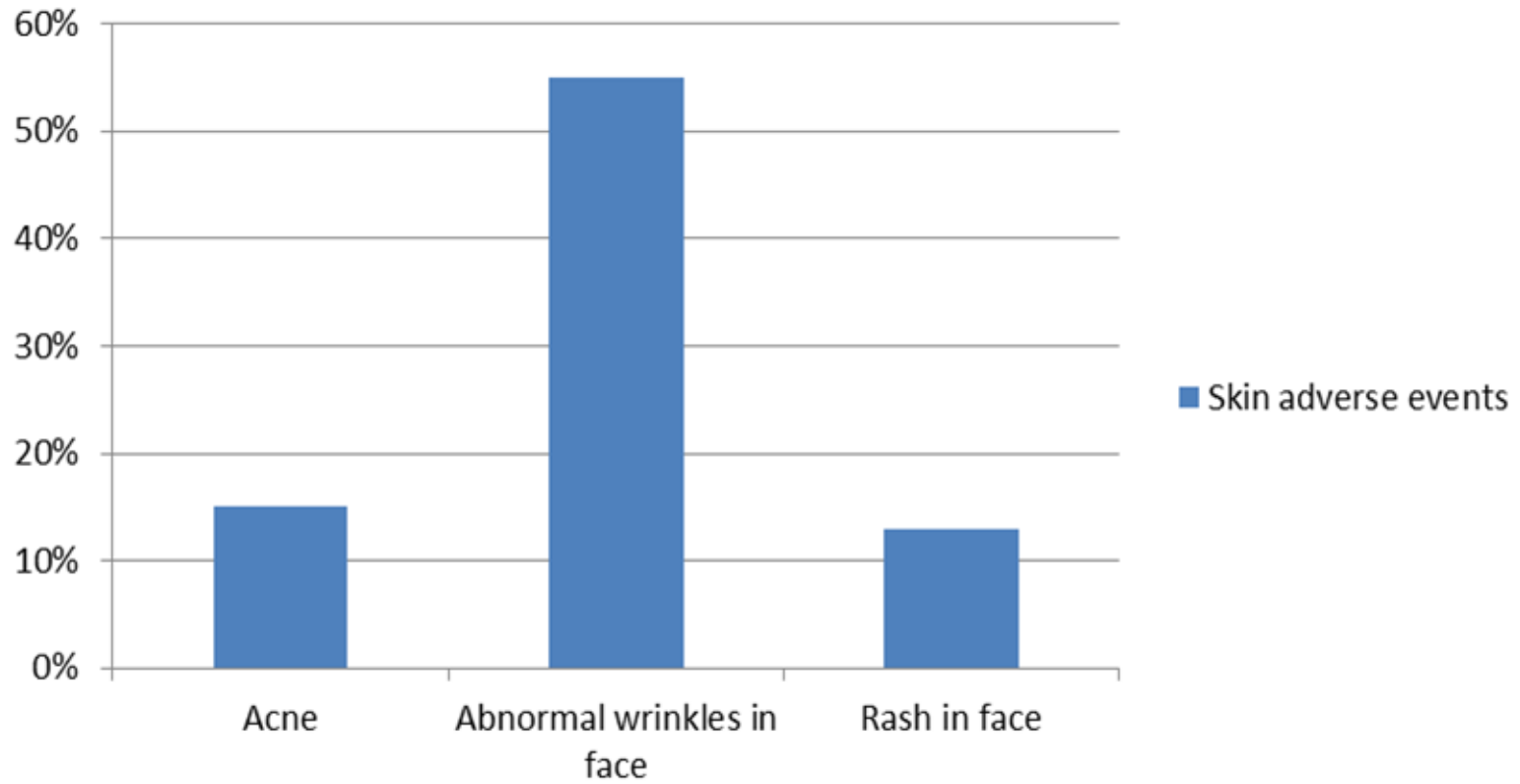
- 50% developed headache
- 20% vertigo & 23% blurring of vision
- 67% had tiredness
- 12% noticed reduction of memory



DERMATOLOGICAL ADVERSE EVENTS

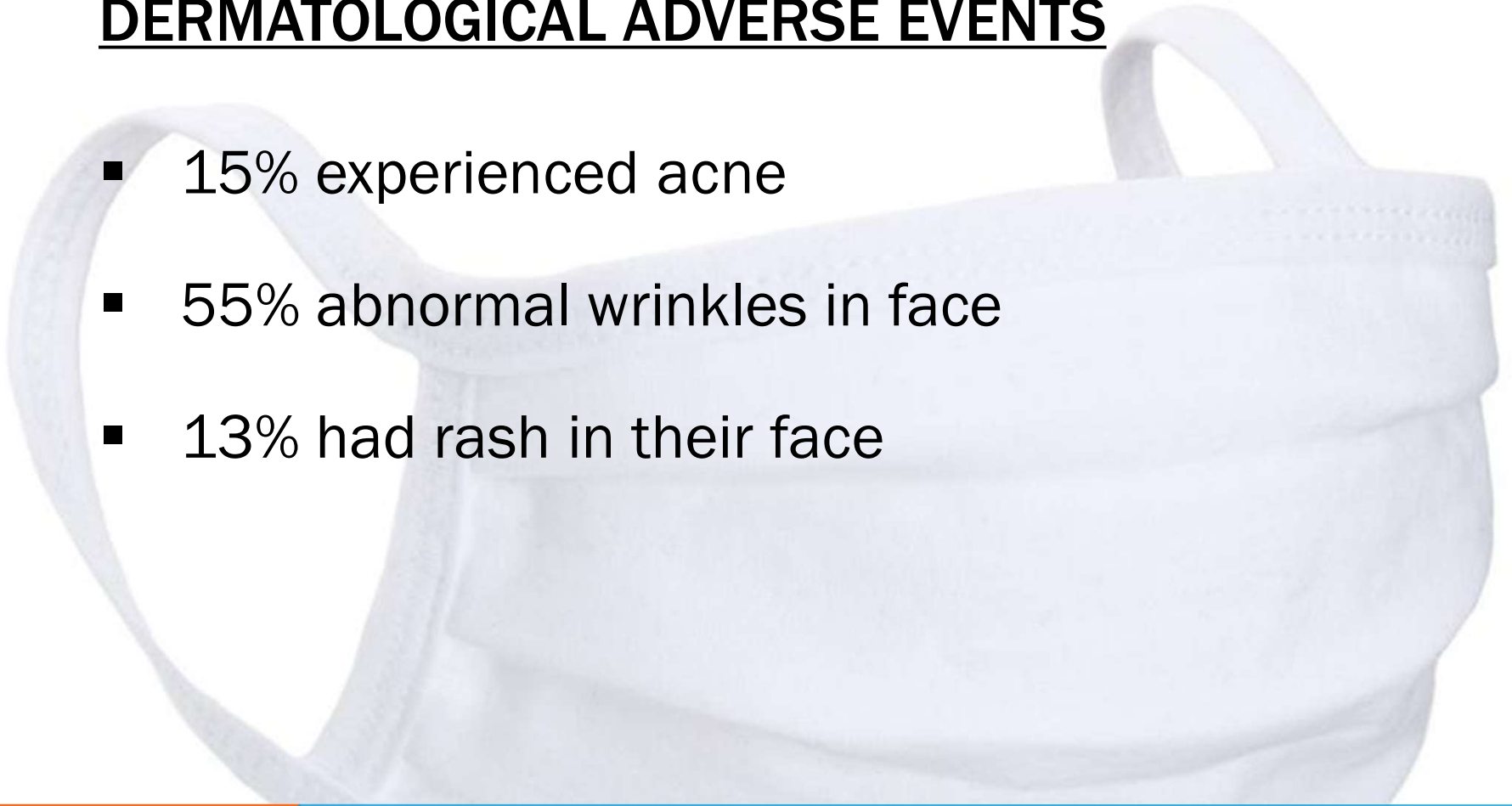


Skin adverse events



DERMATOLOGICAL ADVERSE EVENTS

- 15% experienced acne
- 55% abnormal wrinkles in face
- 13% had rash in their face



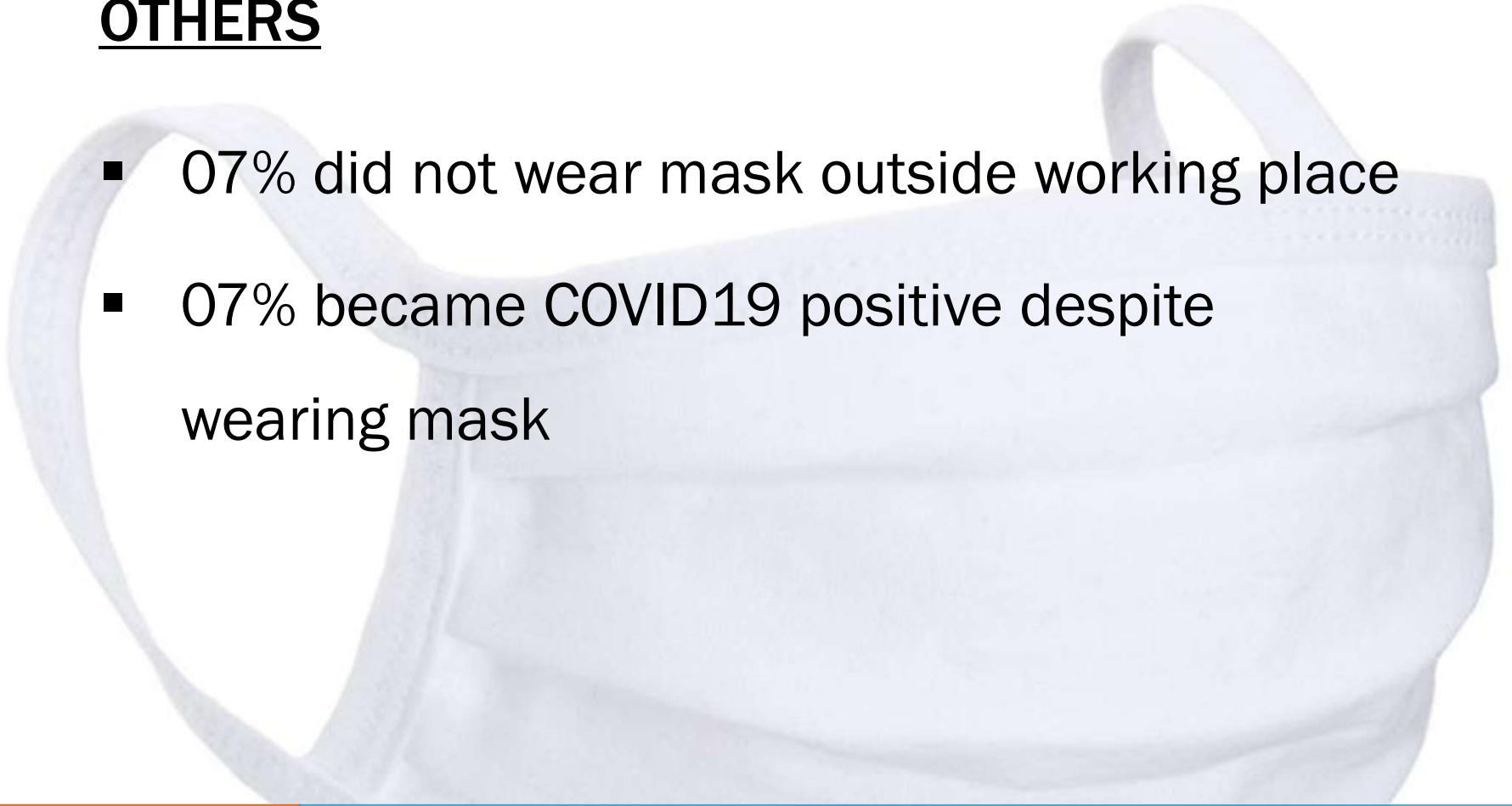
OTHERS

- 81% developed pain behind the ear
- 64% noticed cloudiness of goggles
- 34% had foul smell in oral cavity
- 4% developed oral ulcer



OTHERS

- 07% did not wear mask outside working place
- 07% became COVID19 positive despite wearing mask



CONCLUSION

- More than two third health service providers used more than one mask at a time
- About one fourth of them did not aware about WHO/CDC guideline
- All had experienced some adverse events



RECOMMENDATIONS

- Frequent work breaks for shorter of mask use
- More training on using PPE
- Preventive measures
- Improved mask design



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Thank you health heroes!

