

SARS-COV-2 INFECTION CONTROL MEASURES IN A SPANISH TERTIARY HOSPITAL: A MULTIMODAL STRATEGY

Paula Puche¹, Milagros Herranz¹, Carlota Hidalgo¹, Stefanie Suclupe¹, Aurora Paez¹,
Susana Ruiz², Maria Milagro Montero³, Cristina Gonzalez¹

¹ Infection Control Program, Department of Epidemiology and Evaluation, ² Occupational Health Department, ³ Infectious Disease Department, Parc de Salut Mar, Barcelona, Spain

INTRODUCTION

Responding to SARS-CoV-2 pandemic requires to take rigorous actions to minimise the risk of transmission of SARS-CoV-2 in hospital setting. There are different elements of a multimodal strategy to implement preventive measures and control the nosocomial transmission by SARS-CoV-2.

OBJECTIVES

To describe multimodal strategies used with the frontline healthcare staff to implement SARS-Cov-2 preventive measures in the hospital.

METHODS

Descriptive study of preventive measures implemented in Hospital del Mar, from August 2020 to February 2021. Medical and surgical departments were included in the study.

Strategies were led by the nurses of Infection Control Programme and involved:

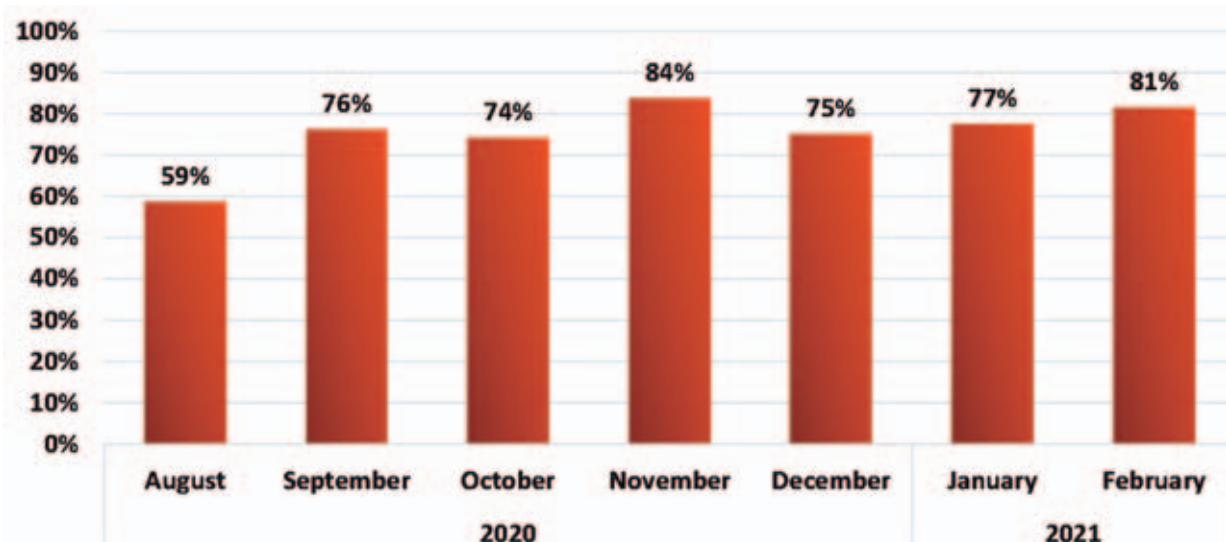
- Education and training sessions: About appropriate use of personal protective equipment.
- Monitoring and feedback: Observations collected through forms, one to one conversations and supportive supervision.
- Reminders and communications: To promote protocols through illustrations at front door of the patient room.

RESULTS

- The Infection Control Programme and the Occupational Health Department carried out training sessions for healthcare staff leaders from each department and shift. A total of 78 participants attended training sessions among nurses (51%), auxiliary nurses (27%), medical doctors (15%), porters (5%), and general service staff (1%). The medical department staff had more participation (56%) than surgical (22%), emergency department (12%), intensive care unit (ICU) (7%), and midwifery area (3%).
- From 696 observations across wards, in the beginning, the compliance of the appropriate use of personal protective equipment was 59% however in February increased to 81%.

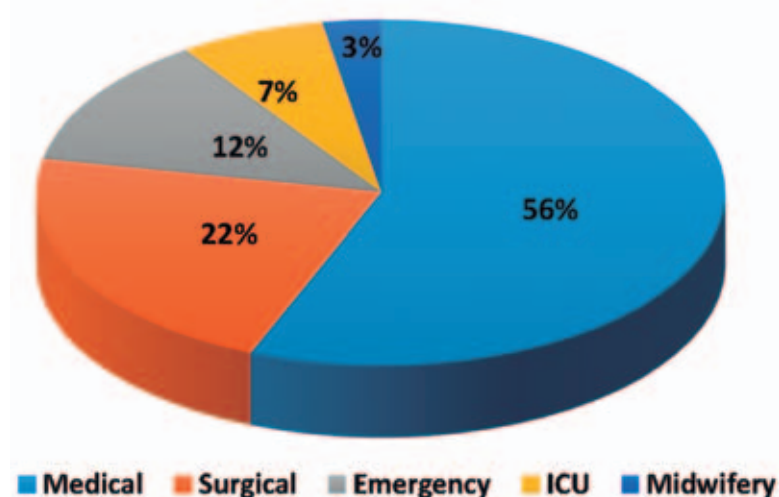
Percentage of compliance of appropriate use of personal protective equipment from August 2020 to February 2021

Appropriate use of personal protective equipment



Percentage of healthcare staff trained on use of personal protective equipment

Staff trained on use of personal protective equipment



CONCLUSION

Multimodal strategies may be applicable to promote preventive measures in the pandemic context. Improvement in personal protective equipment compliance was observed after training, monitoring, and feedback.