TECHNICAL REPORT

Knowledge, Practice and Perception

of Infection Control During COVID-19
Outbreak in Malaysia.

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Produced and Distributed by:

Institute for Public Health, Ministry of Health, Malaysia

Knowledge, Practice And Perception Of Infection Control During COVID-19 Outbreak In Malaysia NMRR-20-559-54367, NMRR-20-571-54388, NMRR-20-1052-55093

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Published by the Institute for Public Health, National Institutes of Health (NIH), Ministry of Health, Malaysia

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ISBN: 978-967-18159-9-1

Suggested citation:

Institute for Public Health (IPH), National Institutes of Health, Ministry of Health Malaysia. 2020. Knowledge, Practice And Perception Of Infection Control During COVID-19 Outbreak In Malaysia

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The views expressed in this report are those of the authors alone and do not necessarily represent the opinions of other investigators participating in the survey, nor the views or policy of the Ministry of Health.

Acknowledgements

The authors would like to thank the Director General of Health Malaysia for his permission to publish this report. Our sincere appreciation to the Deputy Director General (Research and Technical Support), our Directors of the Institute for Public Health and Institute for Health Behavioural Research, for their unwavering support, guidance and technical advice throughout the various stages of the survey that led this project to fruition. Our appreciation is extended as well to Dr. Norazah Ahmad, Clinical Microbiologist & Head of Infectious Diseases Research Centre, Institute for Medical Research, Dr. Feisul Idzwan Dato' Mustapha, Consultant Public Health Physician & Deputy Director of Non-Communicable Disease Section and Mr. Azman Abdul Rashid, Health Education Officer, Health Education Division for their technical advice.

Knowledge, Practice and Perception of Infection Control During Coronavirus Disease 2019 (COVID-19) Outbreak in Malaysia, was accomplished with support by the National Institutes of Health, Ministry of Health Malaysia. The authors also thank all parties who assisted in the implementation of the survey, from the supervisors, data collectors and research team members, without whom the survey would not have been a success.

Finally, our sincere appreciation is extended to all respondents who had participated in and contributed their valuable time and precious information towards the survey. It is our hope that these findings will help program leaders and policy makers to better run the various health and other services available and handling the COVID-19 pandemic in Malaysia.

Executive Summary

This project was carried out to determine the knowledge on Coronavirus Disease 2019 (COVID-19) disease and its symptoms, practice of preventive measures of COVID-19 and perception of effectiveness of these prevention measures in Malaysia. Understanding the level of knowledge and preventive measures practised is not only important to identify the key areas of public health and health literacy to strengthen, but also essential in enforcing the correct practices among public. The knowledge and practice among health care workers (HCW) is also crucial as they are the frontliners against this disease and need to be able to protect themselves, and facilitate in educating patients regarding disease prevention measures.

This project was conducted in three phases, during the initial period of Movement Control Order (MCO), the phone call survey among public and web-based survey among Ministry of Health (MOH) staff was conducted from 23rd March 2020 to 24th April 2020. A web-based survey focusing specifically on Physical distancing was conducted during Recovery Movement Control Order (RMCO) from 19th June to 19th July 2020. For the phone survey, randomly generated numbers were dialled using Computer Assisted Telephone Interview (CATI) method by trained Research Assistants. All MOH staff, with valid official email address, were invited to join the web survey via email from the MOH postmaster. The web-based survey on physical distancing applied non-probability sampling; unrestricted, self-selected and snowballing method. The link for the web-based survey was shared through social media platforms.

Generally, the public knowledge of COVID-19 was found to be moderate, with around 80% of people able to identify the major symptoms of this disease. The practice of various recommended preventive measures went undertaken by most of the people, each between 70% to 95%, highest being avoidance of any travelling, and lowest being the use of public hand sanitizers. Only 6% of people reported not taking any preventive measure.

Over 80% of the MOH staff had good general knowledge on the disease and its transmission, but lower knowledge on the main symptoms of COVID-19. Majority of the MOH staff practiced recommended COVID-19 preventive measures, ranging between 88.8% to 99.7%, highest being avoidance of social gathering and physical distancing of 1 meter and lowest wearing mask at public places. This is similar to the findings of their perception of the preventive measure effectiveness, whereby most of the items scored more than 80% by the respondents, with the used of hand sanitiser reported the least.

Most of the respondents, both among the general public and MOH staff reported positively to practices of preventive measures should they have any symptoms of COVID-19, ranging between 87% to 99%. High scores were also found similarly on the perception on preventive measures effectiveness, as reported by most of the MOH staff, should they have any symptoms of COVID-19. However, we noticed that there were gaps between the practices and perception of its effectiveness should they have any symptoms of COVID-19. This gap should be tackled with targeted and specific health messages so that the importance of these practices are well understood and will continue to be practiced in future.

More than 95% of public were aware of the practices and have positive attitude towards the importance of practising physical distancing. More than 90% agree physical distancing measures help to reduce the risk of COVID-19 transmission in community, however only 68% agree that it helps to avoid loss of life. Almost all the respondents answered that they practiced physical distancing measures as advised by MOH but more than 50% had difficulties to practice physical distancing at certain public places like wholesale or wet market, shopping malls, supermarket/hypermarkets and grocery stores.

Education on COVID-19 must continue to be carried out and intensified for all, including MOH staffs. Clear information on COVID-19 must be given to both the general public and healthcare workers to avoid confusion. Physical distancing must continue to be emphasized with procedures in place in common areas to enable it. These education measures are not only important in reducing the transmission of the disease, but also reduce the fear and anxiety among public.

Table of Contents	Page no.
Acknowledgements	iii
Executive Summary	iv
1.0 Introduction	1
2.0 Methodology	2
2.1 Study Design and population	2
2.2 Sample Size	2
2.3 Sampling Method	2
2.4 Method of Data Collection	3
2.4.1 Questionnaires	3
2.4.2 Definitions	3
2.5 Data Collection	3
2.6 Statistical Analysis	4
2.7 Ethical Approval	4
3.0 Results	5
3.1 Phone Survey on General Population	6
3.1.1 Sociodemographic characteristics of the respondent	6
3.1.2 Knowledge about COVID-19	6
3.1.3 Practice of COVID-19 preventive measure	6
3.1.4 Practice on COVID-19 preventive measure if respondent develop COVID-19	6
symptoms	
3.2 Web-Based Survey on Ministry of Health Staff	11
3.2.1 Sociodemographic characteristics of the respondent	12
3.2.2 Knowledge about COVID-19	12
3.2.3 Practice and perception of COVID-19 preventive measure	12
3.2.4 Practice and perception on COVID-19 preventive measure if respondent develop COVID-19 symptoms	12
3.3 Online Survey on Physical Distancing	17
3.3.1 Sociodemographic characteristics of the respondent	18
3.3.2 Knowledge on physical distancing	18
3.3.3 Practice of physical distancing	20
3.3.4 Circumstances to stop practising physical distancing	20
3.3.5 When to practice physical distancing	21
3.3.6 Reasons on difficulties to practice physical distancing	21
3.3.7 Locations identified as difficult to practise physical distancing	21
3.3.8 Perception and attitude on practice of physical distancing	21
3.3.9 Intention to practice 3W (Wash, Wear and Warn)	22
4.0 Discussion	24
5.0 Conclusion	26
References	27









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