



بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

PERSATUAN PERUBATAN ISLAM MALAYSIA

**Islamic Medical Association of Malaysia**

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1. E-posters should be displayed in a single Microsoft PowerPoint slide, in a **landscape** position layout; saved in a **pdf format**, and must include:
  - Title and authors' information
  - Introduction
  - Objectives and method
  - Result
  - Discussion
  - Conclusion
  - References (QR code is accepted)
  - Or for case reports, the following sub-headers:
    - Title and authors' information
    - Introduction
    - Case Presentation
    - Discussion
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2. Slide size: 63.5cm width; 35.56cm height.
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**MC156** **Pilot Study of Umrah Pilgrims to Identify Problems and Selections Factors of Face Mask**

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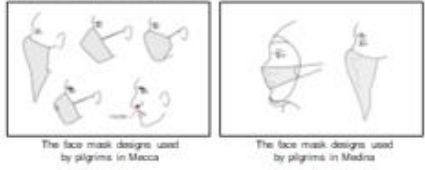


**INTRODUCTION**  
Mass gathering events can occur all around the world, for example, the World Youth Day, Olympics, and Hajj. Safety and health of the participants during such events is a major concern. The risk of acute respiratory disease is very high in such events, and use of face masks is recommended as preventive measure.

**OBJECTIVES**  
To identify the types of face masks and problems pertaining to the masks being used by Malaysian Umrah pilgrims, and to understand the factors influencing the selection of face masks by Malaysian Umrah pilgrims.

**METHODS**  
A survey was conducted with thirty (30) Malaysian Umrah pilgrims using a questionnaire in the form of 5-point Likert scale. Observations of masks being used were made in Mecca and Medina.


**RESULTS**  
Respondents indicated that the problems with the existing face masks were as follows: uncomfortable, effectiveness, long-term usage, and against Islamic sharia. Factors influencing the selection of face masks were as follows: free distribution by Tabung Hajj, fear of disease, period to change, specific for pilgrims, knowledgeable of disease illnesses, and size availability.



**Demographics of Malaysian Umrah pilgrims (N = 30)**

Variables	N (%)
Sex	
Male	24 (80)
Female	6 (20)
Religious Institution	
Muslim	4 (13.33)
Sabahan <sup>1</sup> / Iqama	9 (30)
Qipina	4 (13.33)
Malayan Certificate of Education	12 (40)
Primary School	1 (3.33)
Occupation	
Government	7 (23.33)
Private	6 (20.0)
Freelance	5 (16.67)
Self-employed	7 (23.33)
Others	2 (6.67)
Number of pilgrims Hajj in Umrah	
1st time	14 (46.67)
2 - 4 times	11 (36.67)
5 - 8 times	5 (16.67)
9 - 12 times	0 (0)
13 times and above	0 (0)
Frequency of wearing a face mask	
Always	0 (0)
Occasionally	3 (10)
Seldom	0 (0)
Never	7 (23.33)
When necessary	16 (53.33)
Infrequently	4 (13.33)
Type of face masks used	
Medical mask	14 (46.67)
KN95 mask	2 (6.67)
KN100 cloth mask	0 (0)
Safety mask	1 (3.33)
Other mask	1 (3.33)

**Component Plot on Related space**



**CONCLUSION**  
Based on the problems with existing masks and factors influencing mask selection from the pilot study, new face mask design(s) will be proposed for the Malaysian Hajj pilgrims. It is anticipated that the use of new face mask design(s) can reduce the risk of acute respiratory disease in mass gatherings such as the Hajj.

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