



香港社會醫學學院
HONG KONG COLLEGE OF COMMUNITY MEDICINE
founder College of the Hong Kong Academy of Medicine
Incorporated with limited liability



ADMINISTRATIVE MEDICINE

Part I Examination

Friday 4 June 2021

10:30 – 13:00 (2½ hours)

Paper IIA

Candidates must answer all parts of this questions

Style, clear grammatical English and legibility will be taken into consideration by the Examiners. Answers should be written in a form appropriate to the audience specified in the question.

Weighting of marks for each part of the question is shown in parenthesis.

**DO NOT OPEN PAPER UNTIL THE
INVIGILATOR INSTRUCTS YOU TO BEGIN**

Referring to the article: Ong, Michael K., et al. "Effectiveness of remote patient monitoring after discharge of hospitalized patients with heart failure: the better effectiveness after transition–heart failure (BEAT-HF) randomized clinical trial." *JAMA internal medicine* 176.3 (2016): 310-318, please answer the following questions. (Total 100 marks)

1. Based on the information provided in Table 2, calculate the absolute risk increment on 180-day readmission caused by remote telemonitoring (in percentage, rounding to the 1 decimal place). (5 marks)
2. Provide an interpretation of the results of your calculation in (1). (10 marks)
3. Based on the information provided in Table 2, calculate the number needed to treat for remote telemonitoring on the outcome of 30-day mortality (rounding to the nearest number). (5 marks)
4. Provide an interpretation of the results of your calculation in (3). (10 marks)
5. Comment on the internal validity of this publication and explain why. (25 marks)

QUESTION CONTINUES

6. Based on the conduct of this trial, comment on whether remote telemonitoring is applicable to majority of HF patients discharging from hospitals. (10 marks)
7. This trial showed that remote telemonitoring did not reduce all-cause readmission at 180 days in patients hospitalized for heart failure (HF). Lists 2 possible reasons which may explain this finding. (20 marks)
8. How may telemonitoring technique be improved to reduce readmission? (15 marks)

END OF PAPER

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