



Exploring Non-attendance of Pre-insulin Classes: An Implication for Our Service Strategies

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Introduction

Pre-insulin classes are commonly used in public sector helping type 2 diabetes mellitus (T2DM) patients required starting insulin, by considering staffing and demands. Nonattendances appeared throughout classes have not yet been examined. This study identified patients' factors related to attendance.

Method

Design: Retrospective review of data retrieved from electronic database
Subjects: T2DM patients referred to the pre-insulin classes
Setting: Primary Healthcare Unit in Public Sector
Study Period: 1 Jan 2015 - 31 Aug 2020
Outcomes: Factors associated with attendance, e.g. age, sex, smoking status, alcohol consumption, socioeconomic status, occupation, ethnicity, duration of diabetes, body mass index, comorbidities

Analysis: Independent two samples t-test and exact chi-square test were used to examine univariate associations. The independent contribution of risk factors to class attendance was determined by stepwise logistic regression. Adjusted odd ratios (ORs) and 95% confident interval (95% CI) were calculated.

Results

- 320 T2DM patients referred to the classes are retained for analysis
- Attendance rate of **79.4% (n=254)**

Univariate associations:

- Who are more likely to attend the pre-insulin classes?
- No formal education/primary: 83.4% vs. secondary/tertiary: 73.0%; p=0.029
- Non-smokers/ex-smokers: 80.6% vs. current smokers: 62.9%; p=0.019 Multivariable associations:
- Secondary/tertiary education (adjusted OR=0.542, 95% CI=0.310, 0.947; p=0.032)
- Current smokers (adjusted OR=0.439, 95% CI=0.205, 0.938; p=0.033)

Attendance if No formal or

Conclusions

Non-attendance behaviour serve as a marker for identifying patients should be

✓ Non-smokers or ex-smokers

 served with alternative care models.
 The findings of this study suggest strategies stratified with education level and smoking status for improving attendance of the pre-insulin class so as to improve the insulin initiation rate.

Acknowledgement:

Special thanks to Dr. Patsy Chau & Dr. Mandy Ho, of School of Nursing (HKU), for their advice of study design.