

55th World

ADVANCED NURSING AND NURSING PRACTICE CONGRESS

March 13-14, 2019 Singapore

A descriptive correlational study of general public's willingness, knowledge and attitude to perform bystander cardiopulmonary resuscitation in out of hospital cardiac arrest in Hong Kong**Cheung Pui Han Alison and Yau Wing Lung Simon**
The Open University of Hong Kong, Hong Kong

Introduction & Aim: Bystander Cardiopulmonary Resuscitation (CPR) is a key determinant in rescuing victims of Out of Hospital Cardiac Arrest (OHCA). Bystander CPR, particularly compression-Only CPR (CO-CPR) had been recommended by American Heart Association (AHA) since 2010, however, the rate of performing bystander CPR remained low. Moreover, the willingness to perform bystander CO-CPR among general public in Hong Kong is not clear. This study aimed to examine the level and correlation of willingness, knowledge and attitudes to perform conventional CPR and CO-CPR in OHCA among general public in Hong Kong.

Method: Descriptive correlational design was adopted in this study. A total of 700 participants aged 18 to 64 were recruited by quota sampling from 18 districts in Hong Kong from Dec 2017 to Feb 2018. Knowledge level of CPR, attitudes towards bystander CPR and willingness of performing conventional CPR and CO-CPR were measured.

Results: Only 38% (n=266) had attended CPR training and knew of CO-CPR. The knowledge level on CPR was relatively low, with mean score 4.85 out of 10. Positive attitudes towards bystander CPR were demonstrated, with mean score 39.05 out of 50. More participants were willing to perform CO-CPR than conventional CPR when the victim were strangers (83% vs. 64%, $p<0.001$) and when the victims were relatives (94% vs. 93%, $p<0.001$). Knowledge on CPR and attitudes towards bystander CPR were positively associated with willingness to perform CO-CPR on strangers respectively ($r=0.135$, $p<0.001$; $r=0.438$, $p<0.001$).

Conclusion: To conclude, the knowledge level on CPR among general public in Hong Kong is still low. Positive attitudes towards bystander CPR and majority of participants were willing to perform CO-CPR shown in this study is encouraging for developing targeted promotional campaign to improve the rate of bystander CPR.

Biography

CHEUNG P. H. Alison has a MBA degree in Health Sector from University of Ballarat. Working as a Senior Lecturer in School of Nursing, her main area of interest is Surgical nursing, Infection control, Simulation training.

phcheung@ouhk.edu.hk

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