

Project Title

Factors Associated with Uptake of Influenza Vaccination Among Nursing Staff in Nursing Homes before COVID-19.

Project Lead and Members

Chng Hsing Yun Priscilla

Organisation(s) Involved

Yishun Community Hospital

Healthcare Family Group Involved in this Project

Nursing

Project Period

Start date: 1/4/2019

Completed date: 2/5/2019

Aims

This study aims to identify factors associated with uptake of influenza vaccinations among nursing staff working in local nursing homes.

Background

See poster appended / below

Methods

See poster appended / below

Results

See poster appended / below

Lessons Learnt

It is important to study and understand factors influencing uptake of vaccines among nurses that has an impact on patients they care for.

Conclusion

See poster appended / below

Additional Information

The data for this project was collected from 8 Nursing Homes in Singapore.

Note: This project attained Silver (Category: Singapore Nursing Award) at the Singapore Health & Biomedical Congress (SHBC) 2021

Project Category

Applied Research, Quantitative Research, Care Continuum, Intermediate and Long Term Care & Community Care, Nursing Home

Keywords

Vaccination, Health Belief Model, Cross-sectional Study

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Factors associated with uptake of influenza vaccination among nursing staff in nursing homes before COVID-19

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Background

Before COVID-19, it is known increasing influenza vaccination coverage among nursing staff had been proven effective in reducing morbidity and mortality of nursing home residents, however influenza vaccination uptake rates among nursing staff in local nursing homes have not achieved the recommended level of vaccination coverage. (1-3) **This study therefore aims to identify factors associated with uptake of influenza vaccinations among nursing staff working in local nursing homes.**

Methods

A cross-sectional study on nursing staff in 8 nursing homes was conducted with **self-administered survey** (4) given before start of an education talk on prevention of influenza outbreak.

Demographics

Gender, age group, presence of chronic diseases, current work position, amount of time spent in with patients

Institutional provisions

Education talks, promotional activities, promotional materials, policy/ guidelines/ recommendations, free vaccine

Behavioural factors*

HBM domains of perceived susceptibility perceived severity, perceived benefits, perceived barriers and cue to action

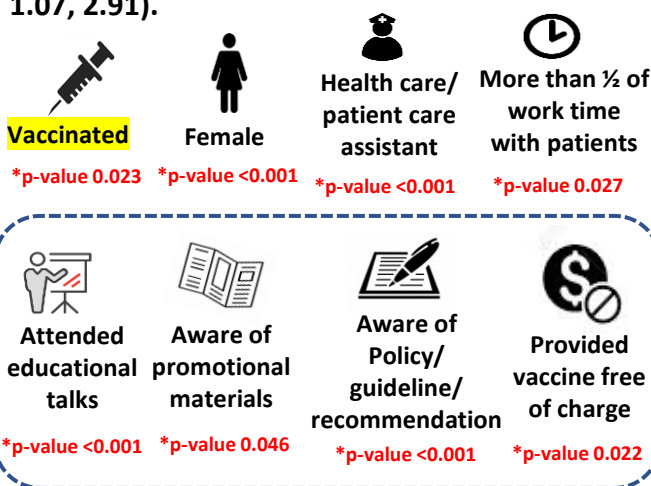
Outcome measure

Self-reported uptake of influenza vaccine in 2017

* A five-point Likert scale (1 = strongly disagree; 5 = strongly agree) used

Results

Completed data from 400 subjects were analysed. 64.5% (n = 258) reported they have received the influenza vaccine in 2017 while 35.5% (n = 142) reported they did not receive the influenza vaccine in 2017. **Many responses on demographical, behavioural and organizational factors were significantly different among participants across 8 nursing homes.** After adjusting for potential confounders of age, gender and nursing homes in multivariate analysis, only one factor significantly associated with influenza vaccine uptake was **staff awareness of policy/ guidelines/ recommendations (OR: 1.8; 95% CI: 1.07, 2.91).**



Conclusion

Strategies to promote uptake of influenza vaccine among nursing staff should be made relevant to the different nursing homes respectively and **include having a policy/ guideline/ recommendation for staff influenza vaccination.**

REFERENCES

1. World Health Organization. Evaluation of seasonal influenza vaccination policies and coverage in the WHO European Region [Internet] 2014 [Available from: http://www.euro.who.int/__data/assets/pdf_file/0003/241644/Evaluation-of-seasonal-influenza-vaccination-policies-and-coverage-in-the-WHO-European-Region.pdf].
2. Nace DA, Hoffman EL, Resnick NM, Handler SM. Achieving and sustaining high rates of influenza immunization among long-term care staff. Journal of the American Medical Directors Association. 2007;8(2):128-33.
3. Kok G, van Essen GA, Wicker S, Llupia A, Mena G, Correia R, et al. Planning for influenza vaccination in health care workers: an Intervention Mapping approach. Vaccine. 2011;29(47):8512-9.
4. Kwok KO, Li KK, Lee SS, Chng PHY, Wei VWI, Ismail NH, et al. Multi-centre study on cultural dimensions and perceived attitudes of nurses towards influenza vaccination uptake. The Journal of hospital infection. 2018.