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Evaluation of the St Vincent's Heart Health Website

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Background

- Coronary Heart Disease is the leading cause of death globally¹.
- Within 5 years of an initial myocardial infarction, 1 in 3 people will have a recurrent event².
- Cardiac Rehabilitation (CR) has been shown to decrease mortality by 20% and yet it remains vastly underutilised especially by older patients and those living in rural areas³.
- As an adjunct to CR, the St Vincent's Heart Health Website (SVHHH) was created by the St Vincent's Hospital CR team.
- This project evaluated the effectiveness of the website in educating patients about their heart condition and improving confidence levels in returning to activities of daily living and making healthier lifestyle decisions.





SVHHH Questionnaire

- I. How well do you feel you understand your heart condition?
- 2. How well do you feel you understand the tests required to assess your heart condition?
- 3. How well do you feel you understand the treatment for your heart condition?
- 4. How much control do you feel you have over your heart condition?
- ▶ 5. How concerned are you about your heart condition?
- 6. How well do you feel you understand the long-term management of your heart condition once you leave hospital?
- 7. How confident are you in knowing how to resume to regular activities once you leave hospital?
- 8. How confident are you that you know how to live a healthy life?
- 9. How well do you feel you understand your heart medications?













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Statistical Analysis

- Wilcoxon signed-ranks test was used to analyse the differences in scores before and after viewing the SVHHH website.
- P value of < 0.05 was considered significant</p>
- All analysis was completed using IBM SPSS version 24

Subject characteristics

- ► 67 subjects
- Age:
 - mean age 63
- Sex:
 - Male 80.6%
- Primary place of residency
 - Inner city 37.3%
 - ▶ Rural 31.3%
- Diagnosis
 - Coronary artery disease 79.8%
- Confidence with using the internet
 - ▶ 6.3/10

Results



Pre and post SVHHH Website

Questions from Website questionnaire

Conclusion

- This online CR education tool improved patients' knowledge of their heart condition as well as confidence to return to activities of daily living and confidence with making healthier lifestyle choices.
- Beneficial to all patients
 - The improvements were seen irrespective of age, sex and primary place of residence.
- We predict this knowledge will lead to increased compliance with health care to reduce overall mortality and morbidity from heart disease.

Limitations

- Small sample size
- No blinding
- No control
- Self-reported questionnaire

Future direction

- Whilst this study demonstrated that the website was effective in improving patients' knowledge and confidence, further studies are warranted to investigate the impact of the website on clinical outcomes.
- We anticipate that online health resources will become an important adjunct to traditional teaching methods to improve patient outcomes, not just in cardiac rehabilitation programs.

References

- 1. World Health Organization. September 2016 [cited 2017 24 April]
- 2. Briffa, T.G., et al., An integrated and coordinated approach to preventing recurrent coronary heart disease events in Australia. Medical Journal of Australia, 2009. 190(12): p. 683.
- 3. Chew, D.P., et al., National Heart Foundation of Australia and Cardiac Society of Australia and New Zealand: Australian clinical guidelines for the management of acute coronary syndromes 2016. Med J Aust, 2016. 205(3): p. 128-133.
- Broadbent, E., et al., The brief illness perception questionnaire. J Psychosom 4. Res, 2006.
 60(6): p. 631-7.
- 5. Mukoro, F., Summary of the evidence on performance of the Patient Activation Measure (PAM). NHS Kidney Care, 2012: p. 1-22.
- 6. Clark, R.A., et al., Alternative models of cardiac rehabilitation: a systematic review. European Journal of Preventive Cardiology, 2015. 22(1): p. 35-74.
- 7. Australian Institute of Health and Welfare. Cardiovascular disease. 2014 [cited 2017 24 April]; Available from: <u>http://www.aihw.gov.au/cardiovascular-disease/</u>.