

Workplace

Oral Session O4.3 : "Promoting Healthy Behavior II" Date: Friday, September 22, 2023, 14:20 - 15:45



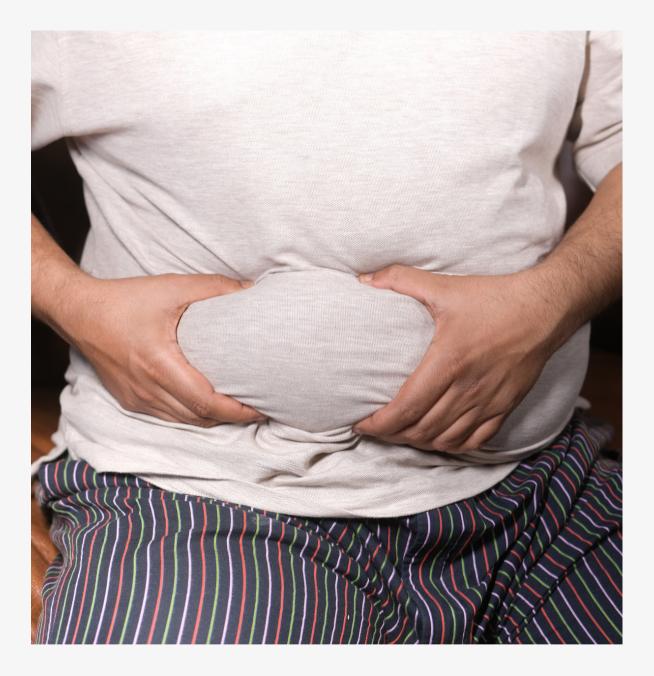
Effectiveness of Nutrition and Physical Activity Interventions for Weight Management Program at

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Background

Obesity is one of the health issues that have attracted global attention. The National Health and Morbidity Survey 2019 (NHMS) has showed that 50.1 % of Malaysian adults are either overweight or obese (30.4% overweight and 19.7% obese).

The high levels of overweightedness and obesity among the workforce are associated with an increased risk of sick leave (absenteeism) and reduced productivity.





Objective

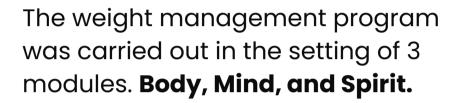
To improve awareness of having wellbalanced nutrition needs and weight loss for employees in an electronic factory through a dietary and exercise education program.





Methods

The participants (*n* = 19) were selected employees in an electronic factory at Bayan Lepas (Penang, Malaysia) who have fulfilled the inclusion criteria.





Who were the participants?

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How was the program structured?



The 3 months' weight management program included nutrition lectures, motivation lectures, exercise session, cooking demonstration, food labeling activities, and food matching activities.



What are the contents of the program?

Methods

Biochemistry blood tests and anthropometric measurements were performed at the beginning of program.



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Participants were asked to:
1.Carry out weekly weighing
2.Submit their journals every week into a Google Drive. The journals' content include details of what they've eaten and exercises they've carried out.



Pre-test

Measures



Participants' anthropometric measurements were performed every month. Biochemistry blood tests were performed in the end of the program. Pre and post results were compared.



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Post-test

Results

Pre-test



Intervention >>

BMI before intervention

 27.5 ± 20



Post-test



BMI after intervention

26.5±14.8

Results (After 3-month intervention)





Average weight loss

3.4 kg

Average % of body fat loss

2.65%





Average waist circumference reduction

8.6cm

Results (After 3-month intervention)







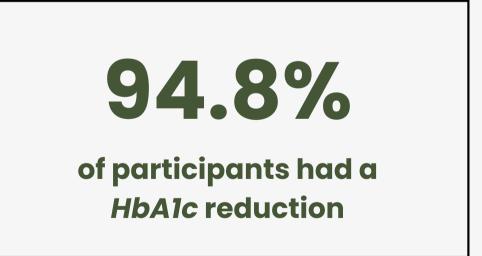
of participants had a cholesterol reduction



of participants had a *triglyceride* reduction







Conclusion

A weight management program emphasizing lifestyle and self-monitoring of food intake interventions through small groups and the motivation of peers is considerably important in order to lead to short-term weight losses and healthier behaviors at the workplace.

Relevance to HPH

The standard 4 of a HPH organization addresses staff health needs and health promotion concerning diet and/or nutrition and states that physical inactivity is needed to be assessed in a timely manner. The role of an HPH organization is to strive to bring forward an environment that promotes health.







Thank you!

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