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Effectiveness of Peer-Trained Community Health Worker Intervention on Obesity Management in Chinese Adults Living in Informal Houses: A 3-Months Preliminary Investigation

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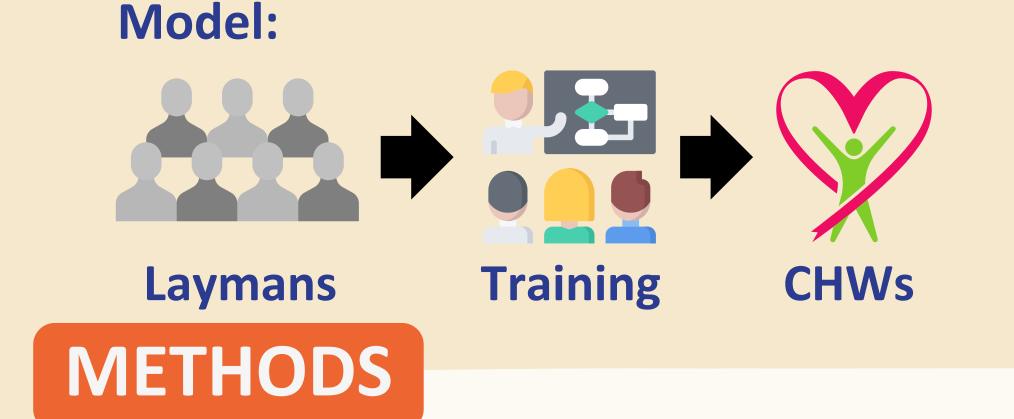
INTRODUCTION

- Community health workers (CHWs) are trained laymans providing health care without formal clinical education.
- Peer-trained CHWs provide more accessible and culturally-sensible to usual care for



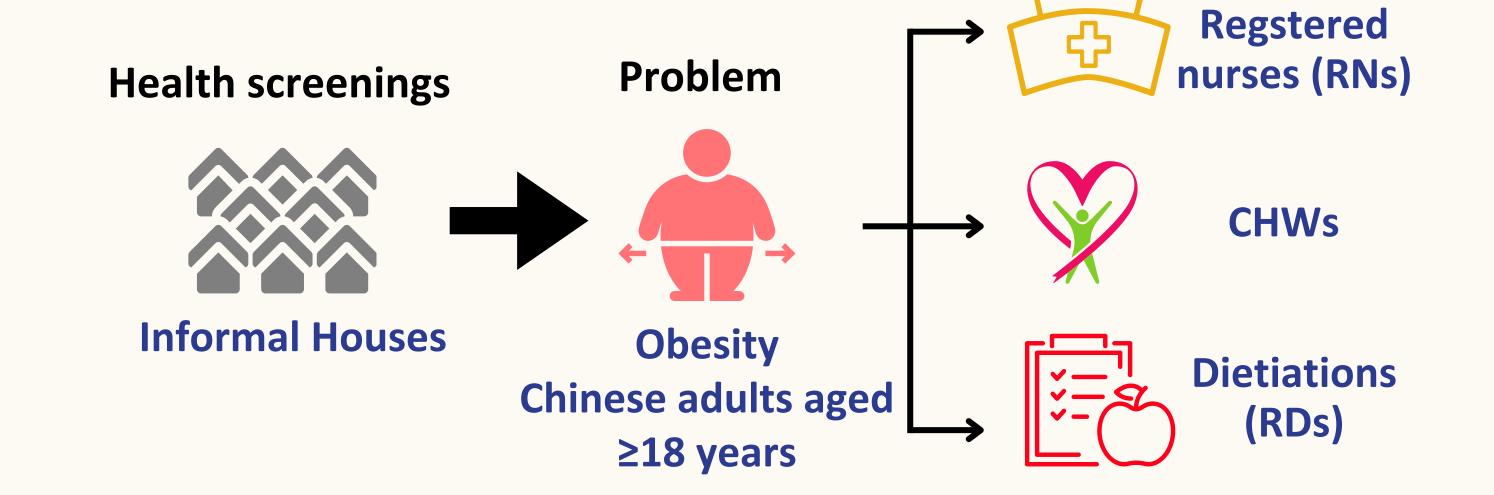
Three arm

their lower cost and higher availability in vulnerable populations



AIM

- Investigate the effectiveness of CHWs habit-based interventions of weight Management in Chinese Adults Living in Informal houses.
- Health screenings were conducted with people living in informal housing.
- Open-label, three-arm, parallel cluster randomized controlled trial design among:
- RD group and RN group providing:
 - Normal care and
 - Follow-up session every 3 months.
- CHWs group providing:
 - Habit-based interventions, and



Gollow-up sessions every 2 - 4 weeks

- Evaluated the impacts on obesity prognosis using CHWs habit-based interventions in comparing to nursing/dietetics care.
- Administrative data of the trial was reported for feasibility assessment.
 - Number of follow-up sessions conducted
 - Loss-to-follow-up rates
- Waist circumference (WC) and body mass index (BMI) were used to measure obesity.
- Multivariate mixed effect models, using family cluster as fixed effect term, were used to evaluate effectiveness of CHWs intervention.

RESULTS

- This preliminary investigation included 59 families (62 obese individuals, mean age [SD] = 48.97 [11.543], 80.6% female)
- 744 follow-up sessions being conducted among 62 individuals, with 1.6% loss-to-follow-up rates
- The median cluster size was 1 (mean size is 1.051)
- Most of the families (90.9%) earn less than HKD 24,999 a month, compared to 49.8% of the general population in HK.



• CHWs intervention shows effectiveness in reducing waist circumference in an interim reporting of three months.

Table 1: CHWs intervention Outcome measurement

Outcome measurement	ICC	Mean Differen ce	95% CI
BMI reduction (kg/m2)	0.309	0.486	[0.089, 0.884]
Waist circumference reduction (cm)	0.339	1.334	[-0.478, 3.146]

CONCLUSION

Hong Kong.

• CHWs intervention is a feasible and effective healthcare intervention with Chinese, housing vulnerable adults living in



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