

Poster #28



Randomized Controlled Trial of The Effectiveness of the Lay Health Advisor Outreach Program on Children's Caries Prevention in Southeast Asian Immigrant Mothers

Poster Number: 28

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Background & Objectives

Oral health disparities in immigrant child have become a dental public health issue. Since 2011, the 5-year Lay Health Advisors (LHAs) Approach to Promote Oral Health Project was first implemented in Kaohsiung, Taiwan. The goal of the project is to create changes in caries preventive factors in immigrant mothers in order to reduce disparities in child oral health.

Methods

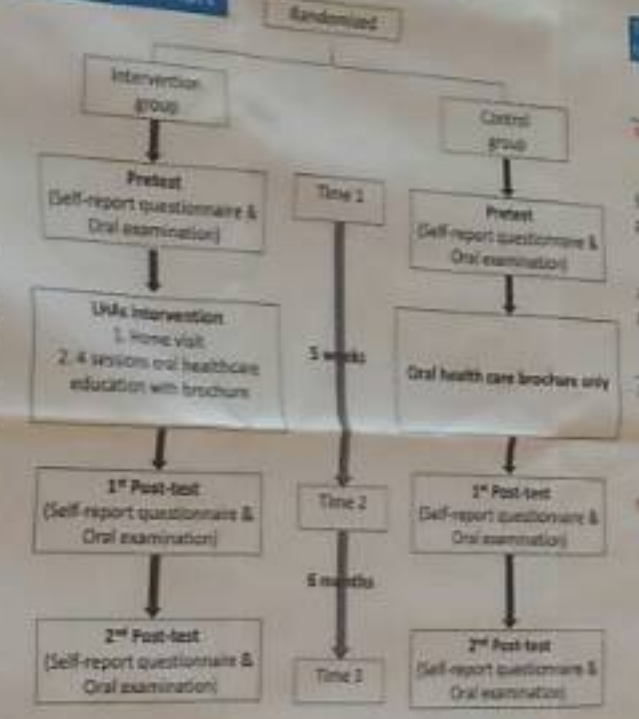
An experimental design was used; participants who have 2-6 years old children were recruited, and randomly assigned to the LHA intervention or to a brochure-only control group. Overall, 28 and 21 mothers were assigned into intervention and control group. Each Qualified LHA taught assigned mother about caries prevention *cognitive and oral health care techniques four times* at 4-week period. Questionnaire was used to collect the data in oral hygiene behaviors from baseline to follow-up. The Generalized Estimating Equations to analyze the baseline, post-test and follow data.

Conclusions

The LHA intervention was effective in improving immigrant children's caries development and maternal caries prevention knowledge and behaviors. There is need for evaluating long-term effects of a LHA outreach program strategy on child's caries prevention.



Study flow chart



Variable	Pre-test	Post-test	Follow-up	P
Maternal caries prevention knowledge				
Intervention group	3.811.2	3.842.3	3.703.7	0.001
Control group	3.872.3	3.812.7	3.752.4	
Self-efficacy toward children caries prevention				
Intervention group	3.222.7	3.253.4	3.213.5	0.001
Control group	3.212.5	3.222.9	3.212.6	
Attitude toward children caries prevention				
Intervention group	45.124.8	46.254.3	45.123.7	0.001
Control group	44.925.8	47.124.8	44.823.7	



Session	Contents
1	Instruction of basic formation of teeth Common oral disease among children Oral disease prevention and healthcare Oral disease prevention and healthcare
2	333 in oral healthcare Tooth brushing technique demonstrate and practice: modified Bass method
3	Tooth brushing technique demonstrate and practice: modified Bass method Skill of assisting children in brushing teeth Dental floss technique demonstrate and practice
4	Tooth brushing technique practice: modified Bass method Dental floss technique demonstrate and practice Disclosing agent introduce and demonstrate

Variable	Pre-test	Post-test	Follow-up	Intervention group	Control group	P
Knows child brushing teeth	15	12	11	18	14	0.001
Always	5	3	3	5	3	
Sometimes, seldom or not	10	9	8	13	11	
Never	0	0	0	0	0	
Brushing frequency						
<1 times/day	11	10	10	12	10	0.001
1-2 times/day	7	7	7	8	7	
>2 times/day	10	10	10	10	10	
Brushing technique						
<1 month	1	1	1	1	1	0.001
1-3 months	25	25	25	25	25	
>3 months	1	1	1	1	1	
Regular dental check-up						
Yes	1	1	1	1	1	0.001
No	27	20	20	27	20	

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