

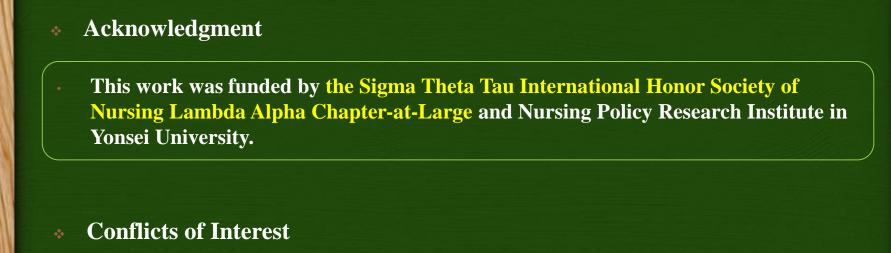
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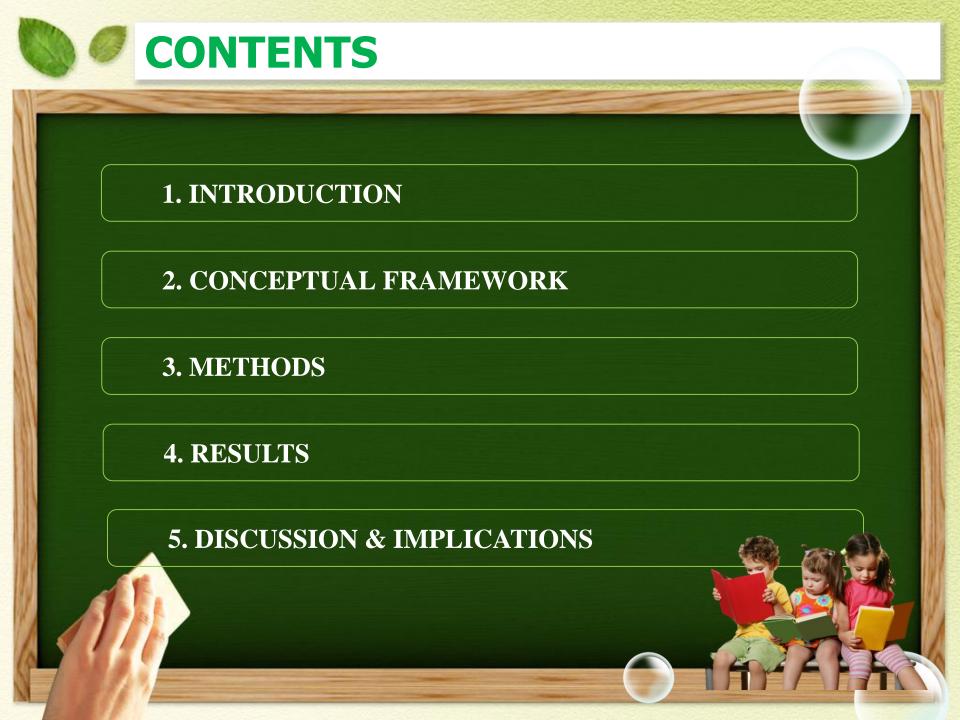
Learner Objectives

- The learner will be able to describe the individual and environmental factors influencing health promoting behaviors of children from low-income families.
- The learner will be able to understand the importance of multi-level approach for promoting health of children from vulnerable social groups.





Authors declare no conflict of interest.





Overarching Goal

'Healthy People 2020' in USA

- Achieve health equity, eliminate disparities, and improve the health of all groups
- Create social and physical environments that promote good health for all

'Healthy Plan 2020' in Korea

Increase healthy life years & Achieve equity in health

* 'Poverty' is a primary factor of 'Child Health Inequality'



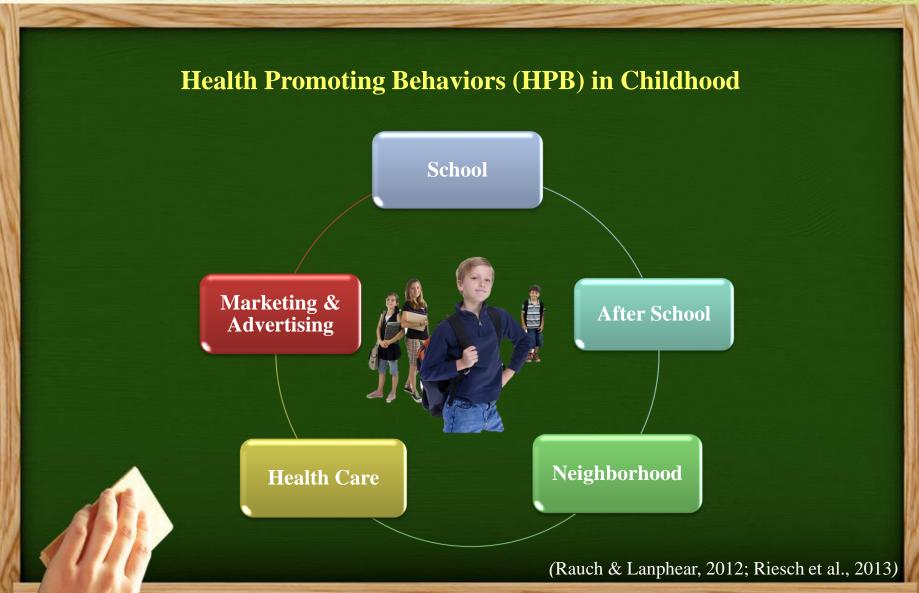
(Hernandez, Montana & Clarke, 2010)

THE VICIOUS CIRCLE OF POVERTY





INTRODUCTION





INTRODUCTION

The PURPOSE of this study was

- * To document the level of HPB among children from low income families
- * To investigate the intrapersonal, interpersonal, and institutional factors influencing HPB among them





CONCEPTUAL FRAMEWORK



Ecological Models of Health Behavior

(McLeroy, Bibeau, Steckler, & Glanz, 1988)



CONCEPTUAL FRAMEWORK

INSTITUTIONAL -

Community Child Center

CCC* Characteristics
Healthy Environment of CCC*
Teachers Workload

INTERPERSONAL

Family, Peers

Family Characteristics
Caregiver Characteristics
Parenting Behavior specific to Healthy Lifestyle
Peer Relationship

INTRAPERSONAL:

Children

Children Characteristics Self-Efficacy, Self-Regulation



*Health Promoting Behaviors=HPB, CCC=Community Child Center

HPB..... Outcome



- Design
- Non-experimental & cross-sectional descriptive study
- Sample
 - 68 community child centers located in 25 districts of Seoul (17% of the total)
- 297 fourth to sixth grade elementary school students from low-income families, 297 caregivers, and 68 community child center teachers
- Below poverty: 20.5%, Near poverty: 43.4%, Local governor's approval: 36.0%







	Variables [Research Instrument]	Items	Respondent	Reliability
DEPENDENT	- HPB [Kim, Yang, Jeong, & Lee, 2007]	53	Children	.94
INTRA (Children)	- Grade/Age/Gender	3	Children	
	- Weight status [Lee et al., 2007]	2	Children	
	- Self-efficacy [Lee, Schwarzer, & Jerusalem (1994)]	10	Children	.94
	- Self-regulation [Bandy & Moore (2010)]	13	Children	.82
INTER (Caregiver & Peer)	- Economic status, Monthly income, Type of family	3	Caregiver	
	- Caregiver's Age/Gender/Education level	3	Caregiver	
	- Caregiver's weight status [WHO Western Pacific Region, 2000]	2	Caregiver	
	- Caregiver's HIB [Developed directly]	6	Caregiver	.88
	- Peer relationship [Lee & Yoo, 1995]	17	Children	.95
INSTITUTION (CCC)	- Number of children, Number of teacher, Working period	3	Teacher	
	- Deterioration grade	5	Teacher	
	- Perceived physical environment of CCC [Developed directly]	10	Children	.91
	- Health promotion programs for children	6	Teacher	
	- Disabled children/teacher ratio	2	Teacher	

HPB=Health Promoting Behaviors; HIB=Health Instruction Behaviors; CCC=Community Child Center



Approval from the Institutional Review Board of Yonsei University

Selection of 70 Community Child Centers using Convenience Sampling

Training of Interviewers using Standard Guidelines

Questionnaire Survey (2013. 8. 13 ~ 2013. 10. 2)



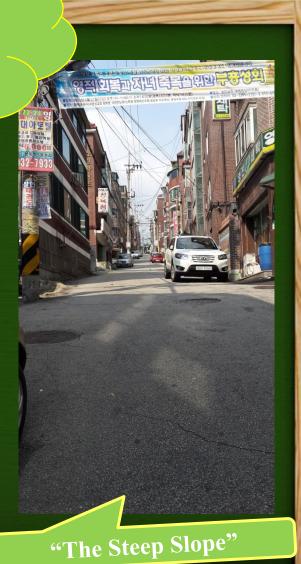
METHODS

Data collection procedures











METHODS

Data collection procedures





Data Analysis

- Descriptive statistics
- Independent t-tests, One-way ANOVA, Pearson correlation coefficients
- Multi-level regression analysis (random-intercept model)
- Random-intercept Model
 - $Yij = \beta 0j + \beta 1X1ij + \beta 2X2ij + \cdots + \beta kXkij + \epsilon ij, \quad \epsilon ij \sim N(0, \sigma 2) \leftarrow Level 1$
- $\beta 0 \mathbf{j} = \mathbf{r} 0 \mathbf{0} + \mathbf{r} 0 \mathbf{1} \mathbf{w} \mathbf{1} \mathbf{j} + \mathbf{r} 0 \mathbf{2} \mathbf{w} \mathbf{2} \mathbf{j} + \dots + \mathbf{r} 0 \mathbf{l} \mathbf{w} \mathbf{l} \mathbf{j} + \mathbf{u} 0 \mathbf{j}, \quad \mathbf{u} 0 \mathbf{j} \sim \mathbf{N}(0, \tau) \leftarrow \mathbf{Level 2}$





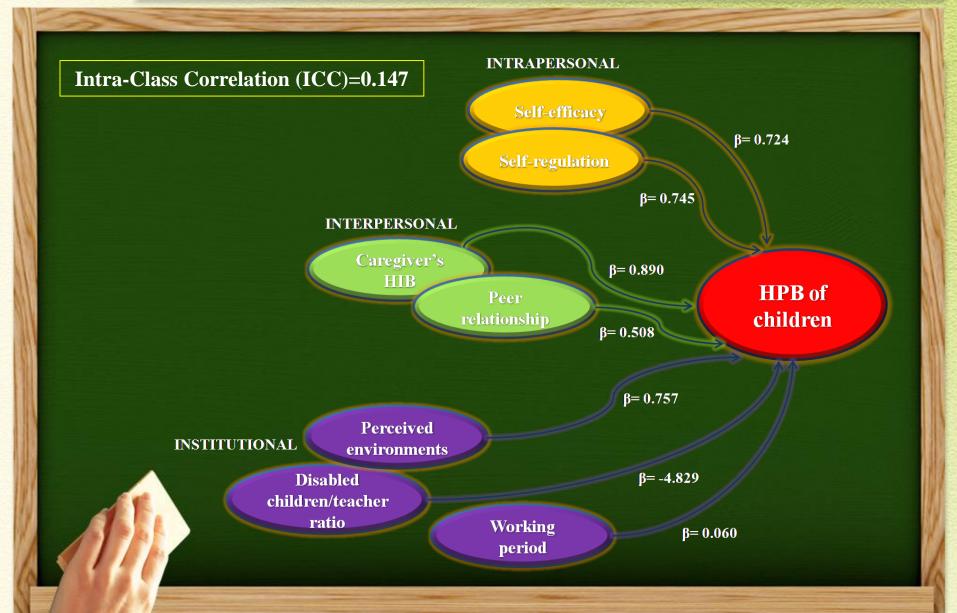
CHILDREN'S HPB LEVEL





MULTI-LEVEL PREDICTORS OF HPB

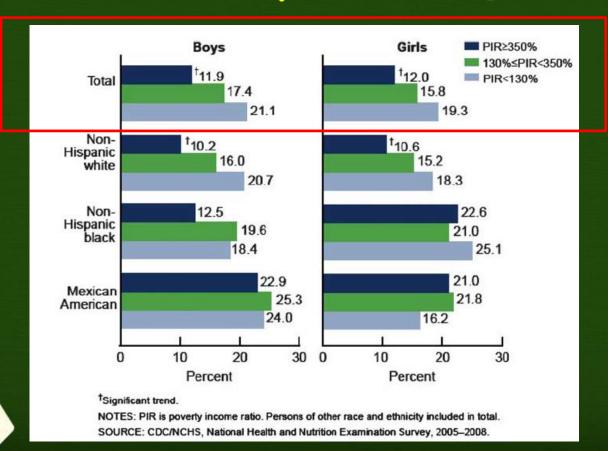
Results-2





CHILDREN'S HPB LEVEL

Trends in Childhood Obesity in United States [2005-2008yr]

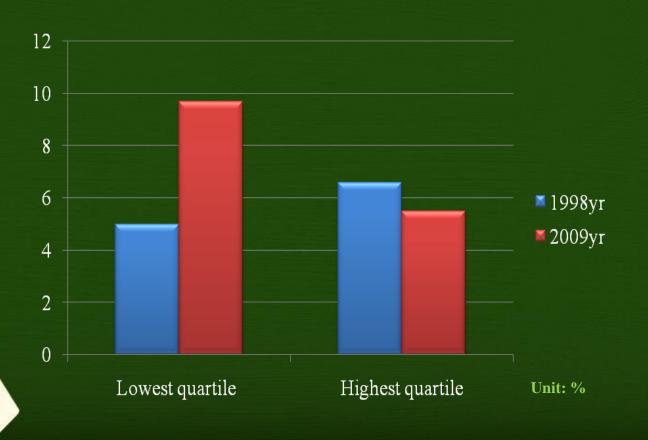


(Ogden, Lamb, Carroll, & Flegal, 2010)



CHILDREN'S HPB LEVEL

Trends in Childhood Obesity in Korea [1998-2009yr]



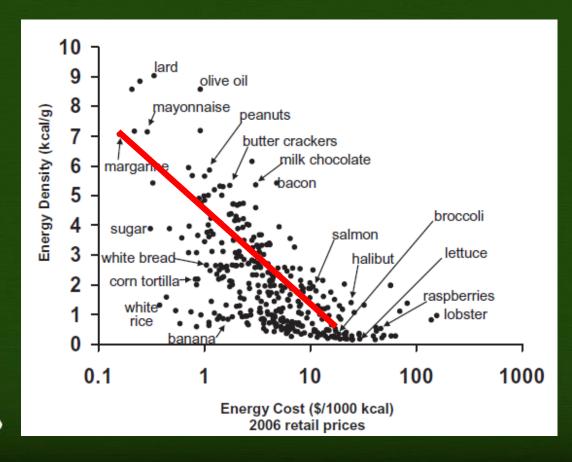
(Lee, 2011)



FACTORS INFLUENCING DISPARITIES

Discussion-1

Relationship between Energy Density of Foods & Energy Costs



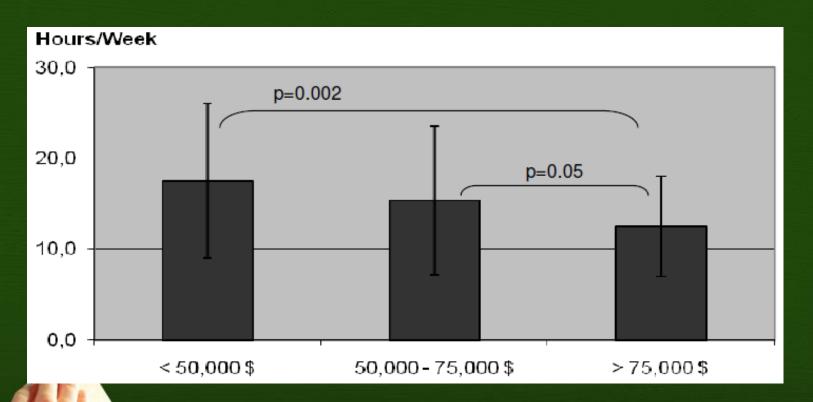




FACTORS INFLUENCING DISPARITIES

Discussion-1

Differences in Weekly Hours Watching TV by Household Income



(Drenowatz et al., 2010)

- Ecological Model
 - The main premise of the model:

Multi-level intervention is the most effective for behavioral change (Sallis et al., 2009)

- Community-based Participatory Approaches
 - Partnerships among Nursing Research Teams ↔ Community ↔ Government







IMPLICATIONS FOR PEDIATRIC NURSING

- Pediatric Nursing
- The Ultimate Goal
 - : To Promote Health or Wellbeing of All Children
- Meeting the Challenges of the 21st Century

Treatment of Disease

→ Health Promotion & Maintenance

Inpatient Acute Care

→ Community-based Care









RECOMMENDATION

