

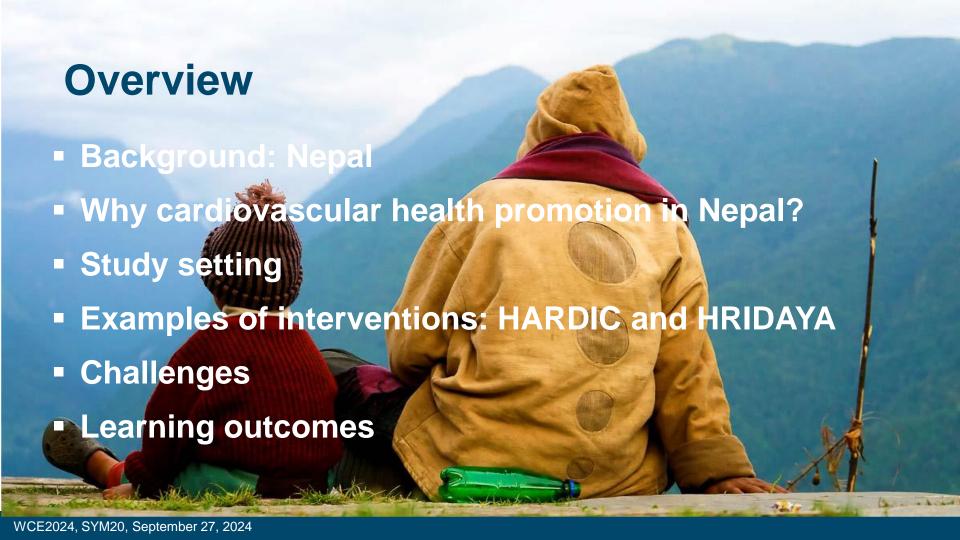
Insights and learning experiences from cardiovascular health promotion in Nepal

SYM20: Primordial prevention of cardiovascular disease and beyond in the African continent: opportunities and challenges

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Background: Nepal





- Population: 30,55 million
- 126 ethnic groups
- 3 ecological belts (Terai, Hills, Mountains)
- 7 provinces and 77 districts



Why cardiovascular health promotion in Nepal?

- Cardiovascular disease (CVD) prevalence increasing contributes to 24% of total deaths and 11.9% of total DALYs
- High prevalence of CVD risk factors, but lack of knowledge, poor attitude, and inadequate practice for CVD prevention in the population
- Resource-limited setting: health promotion better value than disease prevention and/or curative approach
- Habits related to diet and physical activity established in early childhood and carried into adulthood



Study Setting: Jhaukhel-Duwakot Health Demographic Surveillance Site

- 15 km outside Kathmandu, Bhaktapur district, semi-urban
- Established 2010 by the Nordic School of Public Health,
 Kathmandu Medical College and Nepal Medical College
- A platform for future interventions to improve community health and capacity buildning
- Knowledge, attitude and practice regarding cardiovascular health poor
- High prevalence of risk factors



Heart-Health Associated Research, Dissemination and Intervention in the Community



PhD-thesis of
Natalia Oli
University of
Gothenburg 2018

- Health promotion usually considers adults, but rarely children
- Exposure to risk factors begins in early life
- The family food environment affects children's lifestyle
- The mother is the key person responsible for children's lifestyle
- Peer education approach involving mothers can be useful



Intervention tools: Flip chart and manual

Module 1: Heart disease, food and cardiovascular health

Module 2: Fibers, fruits and vegetables

Module 3: Fats

Module 4: Salts

Module 5: Sugar, juices and soft drinks

Module 6: Obesity

Module 7: Physical activity





Intervention



Peer mothers TRAINING





Fellow mothers CLASSES









PhD-thesis of **Dayana Shakya** University of Gothenburg, expected 2026

- Targeting adolescents for CVD awareness needs a user-friendly medium
- A mobile-based intervention could be useful to reach this technologically inclined group
- Assess if digital prerequisites like smartphone and internet access exist
- Investigate feasibility, acceptability, and effectiveness of such an intervention in a developing country



Digital health promotion in schools

- a serious games approach for cardiovascular health education in Nepal
- Public Health
- Community Medicine
- Anthropology
- **Informatics**
- Media Arts. **Aesthetics** and Narration
- Game development



















Intervention tool: Digital game





Intervention



Adolescents, grades 8-10 public & private schools

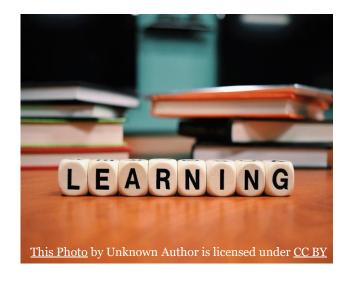






- Political focus and instability
- Disasters: Earth quakes, pandemic, war...
- Funding limited resources
- Sustainability for long-term effect
- Infrastructural challenges
- Cultural issues: adaptation, stereotypes, norms
- Collaboration between disciplines





Learning outcomes

- Possible to use/develop interventions of cardiovascular health education for both adults (mothers) and adolescents in a low-income setting
- Working together from different disciplines is necessary but requires more time than expected
- Always take context into account and do not assume anything



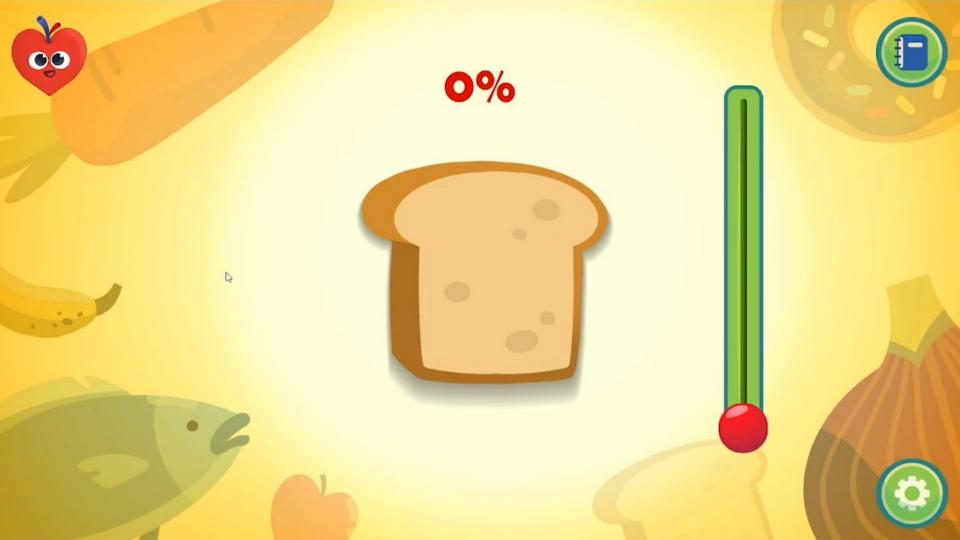
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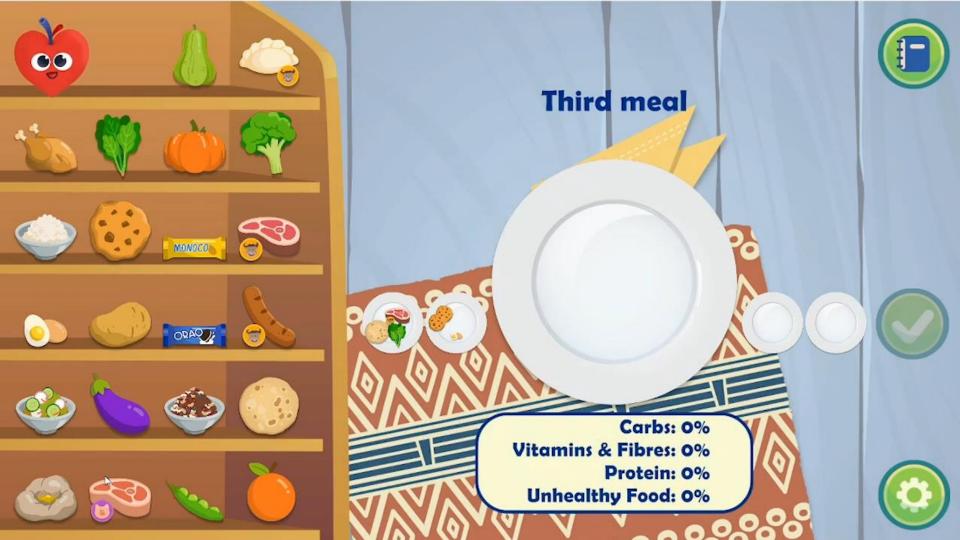




Extra slides (if needed during Q & A)















Carbs: 33%
Vitamins & Fibres: 33%
Protein: 33%
Unhealthy Food: 0%



Carbs: 0%
Vitamins & Fibres: 0%
Protein: 33%
Unhealthy Food: 66%



Carbs: 0%
Vitamins & Fibres: 66%
Protein: 33%
Unhealthy Food: 0%



Carbs: 0% Vitamins & Fibres: 25% Protein: 75% Unhealthy Food: 0%



Carbs: 50%
Vitamins & Fibres: 50%
Protein: 0%
Unhealthy Food: 0%

All meals

Carbs: 13% Vitamins & Fibres: 33%

Protein: 40%

Unhealthy Food: 13%

Try to achieve 5 stars and unlock Time Challenge mode!

















