INFORMAS Food Prices

Does healthy food cost more?

The challenges of measuring the price of 'healthy' versus current 'less healthy' foods and diets.

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INFORMAS monitoring framework

ORGANISATIONS	PROCESSES	Public sector policies and actions					Private sector policies and actions				
		How much progress have (international, national, state and local) governments made towards good practice in improving food environments and implementing obesity/NCDs prevention policies and actions? (University of Auckland)					How are private sector organisations affecting food environments and influencing obesity/NCDs prevention efforts? (Deakin University & City University)				
FOOD ENVIRONMENTS		Food composition	Food labelling	m	Food arketing	Food provision		Food re	tail	Food prices	Food trade & investment
	IMPACTS	What is the nutrient composition (particularly fat, saturated fat, sugar and salt content) of common packaged foods? (The George Institute)	What labelling (including nutrition info & claims) is present on packaged foods and on menus in quick-service restaurants? (University of Oxford)	exp c po gro ma u fo be (Un	hat is the level of posure (of different opulation ups) to the arketing of onhealthy bods and everages?	provid diffe setting scho hosp workp (Unive	What foods are provided in different settings (eg. schools, hospitals, workplaces)? (University of Toronto)		Is are in it (eg. kets, ies)? ty of	What is the relative price and affordability of 'current' vs 'healthy' diets, meals & foods? (Queensland University of Technology & University of Auckland)	What are the risks and benefits to healthy food environments and diets from trade agreements? (Australian National University)
PULATIONS	UTCOMES	Population diet Physi			Physio	ological & metabolic risk factors			Health outcomes		
		What is the qu (different p	What are obesity and other risk factor What are NCD morbidity and n burdens?					-			

(WHO)

(WHO)

(University of Sao Paulo)





Does healthy food cost more?

- Foods or diets?
- What is a healthy diet?
- What is an acceptable diet?
- What is the current diet?
- How do you measure the difference in cost?



Research Objectives

- Develop standardised methods to:
 - construct lists of healthy and less healthy foods & meals
 - construct healthy and current, less healthy diets
 - assess affordability of diets
- Test protocol in NZ, Fiji, Australia
- Compare price differential and affordability between countries



Common foods

Minimal approach

Core vs discretionary foods

Pairs of healthy and less healthy foods

Home-cooked vs takeaway meals

Expanded approach

Healthy vs current, less healthy diet

Optimal approach

Affordability of the diet

Changes over time
Impact of polices on food
prices.

Advocate policies to improve affordability



What are commonly consumed foods?

- Food Price Index / Household expenditure survey
- National Nutrition Survey
- Food lists used in studies
- Food-based dietary guidelines (healthy lists)
- Local knowledge
- Market research



Minimal Approach Food Lists

Pairs of foods

Contrast in saturated fat, salt, sugar or fibre

wholemeal bread: white bread

Core and discretionary lists (cost over time)

- Core: items in food-based dietary guidelines apple, milk
- Discretionary: items high in saturated fat, sugar and salt sausage, potato crisps

Meals

Home-cooked vs takeaway

Fried chicken & chips: roast chicken & vegetables



Price Metrics

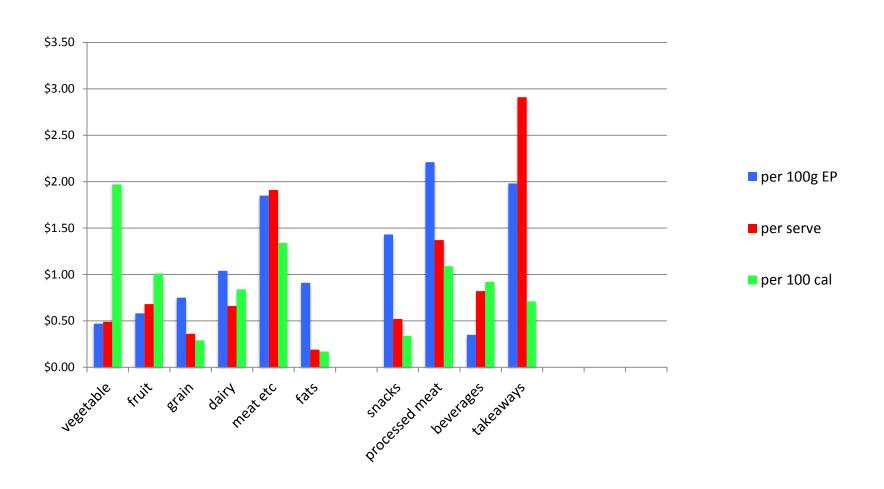
\$ per 100g

\$ per serve

\$ per calorie



Average price per item





Challenges Minimal Approach

- What are commonly consumed foods?
- Missing food groups (pairs)
- Having realistic pairs
- Categorising foods as healthy and less healthy
- Which price metric?
- Including takeaways



Expanded Approach

Healthy diet vs current, less healthy diet

- Measure the cost of the diet
- Covers all food groups
- Realistic food choices



Diets: Systematic Review

Food based dietary patterns:

Healthy diets: + \$1.48 per day

+ \$1.54 per 2000kcal

Nutrient based dietary patterns:

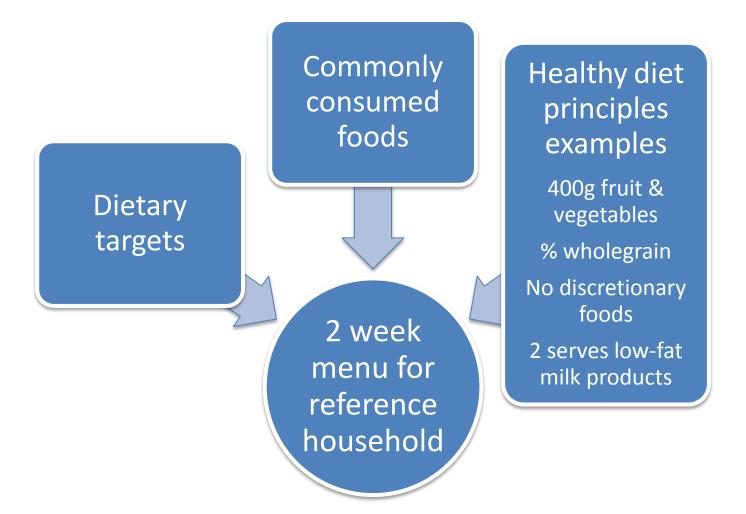
Healthy diets: + \$0.04 per day (NS)

+ \$1.56 per 2000kcal

Rao M et al 2013 Do healthier foods and diet patterns cost more than less healthy options? A systematic review and meta-analysis. BMJ



Healthy Diet





Current, less healthy diet

Commonly consumed foods

% discretionary foods

Current nutrient intakes

2 week menu for reference household g/serves foods/food groups consumed



Challenges – Expanded Approach

- What are commonly consumed foods?
- Lack of nutrition survey data to identify current intake (grams of foods).
- Defining a healthy diet
- Range of possible menus
- Representative basket of the population
- Should alcohol or takeaways be included?
- Other costs: time to prepare food, cooking equipment, transport
- Wastage



Sampling Protocol

Develop shopping list

Package size

Brand names/home brands

Discounts

Collect prices

Supermarkets

Fruit & Vegetable retail outlets

Time of year



Optimal Approach

Affordability of diet compared to disposable median household income



Next Steps

PhD Research

Test protocol in Australia, Fiji, NZ

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- Maori and Pacific baskets
- NZ retail environment study collecting food prices and measuring shelf space healthy and less healthy food