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Data compilation and reviewing of national FCD - Singapore -

19 July 2011 ASEANFOODS Workshop and Meeting Mahidol University, Thailand

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Evaluation: borrowed data

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- Ascertain how nutrients were derived
- Make necessary adjustments
- Dealing with missing information
- Input from another data source directly

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- Proportionate values

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Data compilation

- Sources:
- Borrowed from countries which are major sources of import
- Lab analysis (commonly eaten composite foods or products)
- ✓ Calculated from recipes
- Food selection:
- info from national nutrition surveys
- current trends

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• Examples:

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 Fibre value from Malaysia FCD (crude fibre) is replaced where possible with dietary fibre data

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- ✓ CHO from USDA: value entered into system is after subtraction of dietary fibre data
- ✓ Missing data for MUFA and PUFA:
- Proportionate using similar food item (with known MUFA and PUFA values) using total fat as basis

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\dd N	utrient Remove Nu								
	Nutrient Name	*Amount per 100g 👻	*Un	iit	Trace	*Data Type		*Imputation	*Source of Information
	Water	47.31	g	•		Borrowed from published data	•	None 👻	US NDB No. 21102
	Energy	133	kcal	•		Manufacturer's claim	•	None -	FI SG
	Protein	10	g	•		Manufacturer's claim	•	None -	FI SG
	Total fat	2.30	g	•		Manufacturer's claim	•	None -	FI SG
	Saturated fat	0.70	g	•		Manufacturer's claim	•	None -	FI SG
	Monounsaturated fat	0.81	g	•		Imputed	•	None 👻	US NDB No. 21102
	Polyunsaturated	0.65	g	•		Imputed	•	None 👻	US NDB No. 21102
	Cholesterol	10	mg	•		Manufacturer's claim	•	None -	FI SG
	Carbohydrate	17.80	g	•		Manufacturer's claim	•	rione	ast foods, chickei
	Sugar	2.60	g	•		Manufacturer's claim	•	None _ fi	llet sandwich, pla
	Dietary fibre	2.20	g	•		Manufacturer's claim	•	None -	FI SG
	Vitamin A	55	IU	•		Borrowed from published data	•	None -	US NDB No. 21102
	Thiamin	0.18	mg	•		Borrowed from published data	•	None 🔻	US NDB No. 21102
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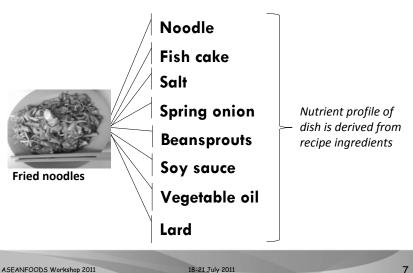
Evaluation: analysed data

- Derivation of values, e.g.
- \checkmark Vitamin A = retinol + beta-carotene
- Knowledge of food content, e.g.
- ✓ Plant-based foods not expected to contain cholesterol
- ✓ Dish containing preserved ingredients is expected to have high sodium levels
- Comparison with existing data, e.g.
- Dietary fibre content of fruit without skin should not be higher than same fruit with skin

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Way forward: recipe disaggregation?



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Evaluation: calculated data

- Comparison with existing analysed data as a guide, e.g.
- Calorie content for a soup noodle recipe should be comparable to similar noodle dishes
- Areas for consideration:

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- ✓ Yield and nutrient retention factors
- ✓ Oil absorption (deep-frying)
- ✓ Effect of yield on ingredient's moisture content

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✓ Reliability of ingredient data

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Y Analysis? Thiamin 0.55 Name Subrecipe Cooking Method AP EPs EPs Withelds Water Energy Protein ry? Ribofiewin 0.95	
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- Chicken, DEEP	fat fat
Vitamin C 0.80 wing, raw, 1 UEPV 50055 27589 244.75 150.15 615.85747.025 47.575 15.125 21.175	5 11.275
lean and PKT	11.2.10
Potassium 0.60 00 000 000 000 000 000 000 000 000	
Caldium 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.8	6 1.8216
Phosphorus 0.70 April Delete 1 2010037	
Ret trin 0.90 Md Factor U spice 1 DEEP 1 100 1 0.124 3.48 0.01 0.08 0.0236 0.0061	0.0218
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Close Window Close Window 245.75 150.274743.53747.035 61.45520.8066 27.4877	
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