#### HealthPromotionBoard

# Data compilation and reviewing of national FCD - Singapore -

19 July 2011 ASEANFOODS Workshop and Meeting Mahidol University, Thailand

18-21 July 2011

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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

### **Evaluation: borrowed data**

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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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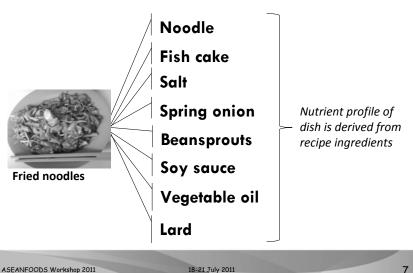
## **Evaluation: analysed data**

- 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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Vitamini A Vitamini A 0.75   bie Portson B-Carotene 0.75   autry of Origin Retoil 0.75   bioratory Analysing? Thiamin 0.65   Sporteury? Robitavin 0.95	Search 🔻 🖶 👻 Page 👻 🍈 To
Number <th>r 🖶 🔻 📄 Page 🕶 🍈 To</th>	r 🖶 🔻 📄 Page 🕶 🍈 To
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Portion B-Carotene 0.75   y of Origin Recipe Name: Chicken Wings, Deep-Fried (Blended) BK5712Q-1   Number of Serving: 1   Villmber of Serving: 1   Oil % 5   Name Subscript   Recipe Name: Chicken Wings, Deep-Fried (Blended) BK5712Q-1   Name Subscript   Name Subscript   Name Subscript   Oil % 5   Name Subscript   Oil % 5	
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Y Analysis? Thiamin 0.55   Name Subrecipe Cooking Method AP EPs EPs Withelds Water Energy Protein   ry? Ribofiewin 0.95	
Ribotravin 0.95 OS010030 - Chicken, DEEP	Insaturated Polyunsaturate
- 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
powder	
Close Window Close Window 245.75 150.274743.53747.035 61.45520.8066 27.4877	
Per 245.75 150 274743.53747.035 61.45520.8066 27 4977	13.1184
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ple: effect on moisture content	HealthP
	HealthP
le: effect on moisture content	HealthP
Boil   330   495   204.6     g)   330   495   330 x 1.5   204.6     in raw   Boil   330   495   330 x 1.5     in raw   Boil   100   100   1495-330]     in raw   Boil   100   100   1495-330]     in raw   behoon, boil =   150%)   204.6   1495-330]	HealthF

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