Aclosen lookat Nutrition Lebelling

HOW TO READ NUTRITION LABEL





NUTRITION INFORMATION IS VERY USEFUL FOR US TO MAKE HEALTHY FOOD CHOICE. WE CAN USE THE INFORMATION IN THE FOLLOWING WAYS:

- To compare nutritional content among different foods for a healthier choice, e.g. to choose food lower in fat, sodium (or salt) and sugars.
- To understand the nutritional content of food and estimate their contribution to the overall diet.
- To meet individual's dietary needs.

In order to enjoy the benefits of reading nutrition label, we need to first look at what is inside and how to read them.

HOW DOES NUTRITION LABEL LOOK LIKE?

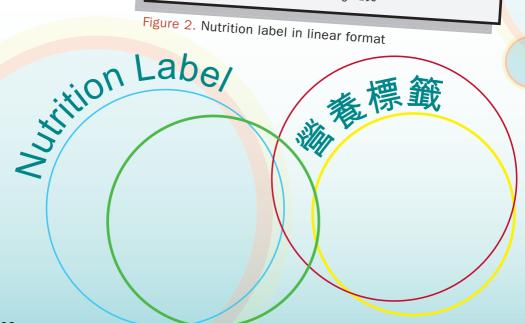
Nutrition label is a systematic way of presenting nutrition information of food products. It is usually in a tabular format with a heading like "Nutrition Information", "Nutrition Facts" or "Nutrition Label". Do turn around food packages to find it, it may look like the one in Figure 1. For small packages, the nutrition label may show the energy and nutrients linearly as in Figure 2.

	in the shall
Nutrition Info	ormation營養資料
Nutraorra	Per 100g/ 每100克
	436kcal/ 千卡 (1831kJ/ 千焦)
Energy/ 能量	11g/ 克
Protein/ 蛋白質	16g/ 克
Total fat/ 總脂肪	7g/克
- Saturated fat/ 飽禾	100/ 元
- Trans fat/ 反式脂质	版 620/ 克
Carbohydrates/ 碳水化	L合物 2g/ 克
- Sugars/ 糖	
Sodium/ 鈉	/30mg/ 電力

Figure 1. Nutrition label of Brand A biscuit in tabular format

Nutrition Information營養資料 Per 100g/ 每100克 Energy/ 能量 436kcal/ 千卡(1831kJ/ 千焦)[,] Protein/ 蛋白質 11g/ 克 Total fat/ 總脂肪 16g/ 克, Saturated fat/ 飽和脂肪 7g/ 克, Trans fat/ 反式脂肪 0g/ 克, Carbohydrates/ 碳水化合物 62g/ 克, Sugars/ 糖 2g/ 克 , Sodium/ 鈉 730mg/ 毫克

Figure 2. Nutrition label in linear format



THREE SIMPLE STEPS TO READ NUTRITION LABEL

STEP STEP TAKE NOTE OF THE REFERENCE AMOUNT OF FOOD BEING USED IN THE NUTRITION LABEL

Energy and nutrient values can be expressed in different reference amounts such as **per 100 g/mL**, **per serving** or **per package**. We need to take note of what the reference amount of food is being used before we can understand the true meaning of these figures.

A) Per 100 g/mL

It is a common way of which energy and nutrient values are expressed. Per 100 g is usually for solid food while per 100 mL is usually for liquid food. For example, as shown in Figure 1, 100 g of Brand A biscuit contains 436 kcal (i.e.1831 kJ) of energy, 11 g of protein, 16 g of total fat, and so on.



B) Per Serving

It reflects the energy and nutrient content of a specified amount (which is called the serving size) of food. Serving size is the amount of food people customarily consume per eating occasion. The serving size is determined by the manufacturer. It is expressed in metric measurements such as gram (g) or millilitre (mL). Sometimes, it may also be expressed in units such as pieces, cups, tablespoons, teaspoons etc. as shown in Figure 3.

Nutrition Inform	nation營養資料	-
Servings Per Package/ 每包裝, Serving Size/ 食用分量: <mark>5 piece</mark>		Wheat Cracke
 Energy/ 能量	Per Serving 每食用分量	Section 1
Protein/蛋白質	218kcal/ 千卡 (916kJ/ 千焦)	
Total fat/ 總脂肪	5.5g/ 克 8g/ 克	
- Saturated fat/ 飽和脂肪 Trans fat/ 反式脂肪	3.5g/ 克	
Carbohydrates/ 碳水化合物 - Sugars/ 糖	0g/克 31g/克	
Sodium/ 鈉	1g/ 克 365mg/ 毫克	

Figure 3. Nutrition label of Brand A biscuit (expressed as per serving)

Besides noting the serving size, you may also find the number of servings in a package. Figure 3 shows that there are three servings of biscuits in a package, each serving consists of 5 pieces and each piece weighs about 10 g on average. The whole package contains 15 pieces of biscuits.



C) Per Package

For package that only contains a single serving of food (for example, a carton of milk beverage as shown in Figure 4), the amount of energy and nutrients may be expressed as per package.

Nutrition Information營養資料 Servings Per Package/ 每包裝所含食用分量數目:1 Serving Size/ 食用分量: 236mL / 236毫升 Per Package 每包裝 每包裝 Energy/ 能量 158kcal/ 千卡 (664kJ/ 千魚) Protein/ 蛋白質 7.6g/克 Total fat/總脂肪 9.2g/克 · Saturated fat/ 飽和脂肪 5.7g/克 · Trans fat/ 反式脂肪 0.3g/克 Carbohydrates/ 碳水化合物 11.3g/克 · Sugars/ 糖 11.3g/克 Sodium/ 鈉 130mg/毫克				
Servings Per Package/ 每包裝所含食用分量數目: 1 Serving Size/ 食用分量: 236mL / 236毫升 Per Package 每包裝 每包裝 Energy/ 能量 158kcal/ 千卡 (664kJ/ 千魚) Protein/ 蛋白質 7.6g/ 克 Total fat/ 總脂肪 9.2g/ 克 - Saturated fat/ 飽和脂肪 5.7g/ 克 - Trans fat/ 反式脂肪 0.3g/ 克 Carbohydrates/ 碳水化合物 11.3g/ 克 Sodium/ 鈉 130mg/ 毫克		Nutrition Inform	nation營養資料	7
留包裝 Energy/能量 158kcal/ 千卡 (664kJ/ 千焦) Protein/蛋白質 7.6g/克 Total fat/總脂肪 9.2g/克 - Saturated fat/飽和脂肪 5.7g/克 - Trans fat/反式脂肪 0.3g/克 Carbohydrates/碳水化合物 11.3g/克 - Sugars/糖 11.3g/克 Sodium/鈉 130mg/毫克	e	Servings Per Package/ E Cut	1	
- Trans fat/ 反式脂肪 0.3g/ 克 Carbohydrates/ 碳水化合物 11.3g/ 克 - Sugars/ 糖 11.3g/ 克 Sodium/ 鈉 130mg/ 毫克 Figure 4. Nutrition label of Brand B minimum contrasts of the second sec		Protein/ 蛋白質 Total fat/ 總脂肪	每包裝 158kcal/ 千卡 (664kJ/ 千焦) 7.6g/ 克 9.2g/ 克	奶類飲品
- Sugars/糖 11.3g/克 Sodium/鈉 11.3g/克 Figure 4. Nutrition label of Brand B mi	-			Beverage
Soutinn/ 蓟 130mg/ 毫克 Figure 4. Nutrition label of Brand B mi	_			
	S	Sodium/ 鈉		Figure 4. Nutrition label of Brand B milk beverage (expressed as per package)

STEP 2 READ THE ENERGY AND NUTRIENT CONTENT TOGETHER WITH THE REFERENCE AMOUNT

Nutrition label lists out the energy content and values of 7 nutrients specified for labelling ("1+7"), namely, protein, total fat, saturated fat, trans fat, carbohydrates, sugars and sodium.

Energy

Read the energy content first because getting too much energy increases the risk of overweight and obesity, leading to increased risk of heart diseases, diabetes and certain types of cancer. The energy content of food can be expressed in kilocalories (kcal) or kilojoules (kJ) (1 kcal \approx 4.2 kJ) or in both. It tells you how much energy you get by eating the reference amount of food. Then look for the amount of the 7 nutrients specified for labelling.

Total fat, Saturated fat, Trans fat and Sugars

In order to maintain heart health and a desirable body weight, try to limit these nutrients (total fat, saturated fat, trans fat and sugars) by choosing food with lower amount. For a 2000-kcal diet, the daily limit should be:

Total fat	≤ 60 g
Saturated fat	≤ 20 g
Trans fat	≤ 2.2 g
Sugars	≤ 50 g

Sodium

Try to limit the intake of sodium to not more than 2000 mg a day. Diet low in sodium is considered healthier.

Sodium

<mark>≤ 20</mark>00 mg

Protein and Carbohydrates

Try to eat appropriate amounts of protein and carbohydrates for a balanced diet. For a 2000-kcal diet, the daily amount should be around:



Other Nutrients

In addition to the 7 nutrients specified for labelling, you may also find information of other nutrients in the nutrition label. Based on your personal dietary needs, make sure you get enough of these nutrients (e.g. dietary fibre, minerals and vitamins), and avoid getting too much of certain nutrients (e.g. cholesterol). For an average adult, try to set the daily amount of about:



Reading energy and nutrient content together with the reference amount can help you compare nutritional content of different food products and choose food that is healthier (e.g. lower in fat, lower in sodium, lower in sugars) as well as understanding the amount of energy and nutrients you get from food. Here are some examples:

A) Use Nutrition Label to Compare Between Products

Products with nutritional content expressed in the same reference amount



Figure 5. (Partial) Nutrition label of Brand A biscuit



Figure 6. (Partial) Nutrition label of Brand C biscuit

If the amount of energy and nutrients of products are expressed in the same reference amount e.g. as per 100 g in Figure 5 and Figure 6, you can compare between them directly. For example, Brand A biscuit contains 2 g of sugars per 100 g whereas Brand C biscuit contains 8 g of sugars per 100 g. You should choose Brand A biscuit if you want to get less sugars.

Products with nutritional content expressed in different reference amounts



Figure 7. (Partial) Nutrition label of Brand A biscuit



Figure 8. (Partial) Nutrition label of Brand D biscuit

If the nutritional content of products are expressed in different ways (e.g. one product presents as per serving whereas the other presents as per 100 g) or both products are expressed by per serving but the serving sizes are not the same, you have to do the conversion first to ensure that the reference amounts of food are the same before comparison.

Example

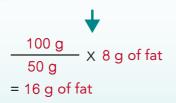
Brand A biscuit contains 8 g of fat per serving (i.e. 8 g per 50 g)

Brand D biscuit contains 7 g of fat per serving (i.e. 7 g per 35.5 g)

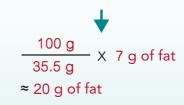


Instead of direct comparison, you need to convert their fat contents basing on the same amount of food first, e.g. 100 g of food.

100 g of Brand A biscuit provides



100 g of Brand D biscuit provides



Based on the same amount of food, i.e. 100 g of biscuits, Brand A biscuit provides about 4 g of fat less than Brand D biscuit. You should choose Brand A biscuit if you want to get less fat.

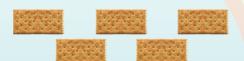
B) Use Nutrition Label to Calculate the Amount of Energy and Nutrients You Get from Food

By understanding the amount of food you actually eat and information in the nutrition label, you can estimate your own energy and nutrient intake from the food. Remember that the more you eat, the more you get.

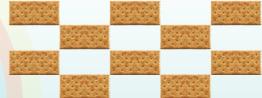
Example



If you eat 1 serving of Brand A biscuit



i.e.5 pieces of biscuit, you will get exactly the same amount of energy and nutrients as stated in the label, 218 kcal of energy and 8 g of fat, and so on. If you eat 2 servings of Brand A biscuit



i.e.10 pieces of biscuit, you double your energy and nutrients intake and get 436 kcal of energy and 16 g of fat, and so on.



On the contrary, if you only eat 1 piece (i.e. 1/5 serving) of Brand A biscuit, you will just get 1/5 of the above energy and nutrient content, i.e. 44 kcal of energy (218 kcal/5) and 1.6 g of fat (8 g/5), and so on.

If the energy and nutrient content is expressed as per 100 g/mL, you can similarly estimate your own intake by simple calculation.



If you drink 100 mL of this yogurt drink, you will get 1 g of protein.

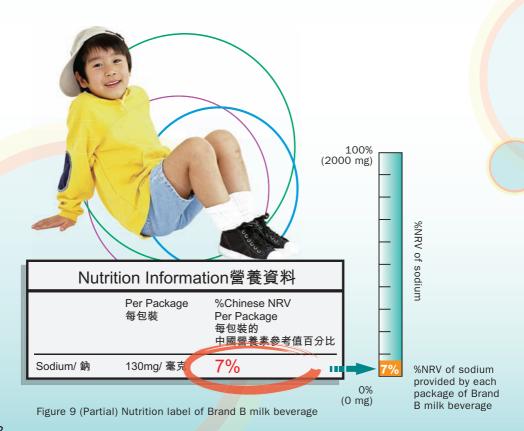
If you drink the whole bottle (i.e. 500 mL), you will get 5 g (1 q X 5) of protein.

REFER TO THE PERCENTAGE STEP **NUTRIENT REFERENCE VALUE** (%NRV), IF AVAILABLE, TO SEE IF THE FOOD CONTAINS A LOT OR A LITTLE **OF ENERGY OR A NUTRIENT IN THE FOOD**

In addition to showing the exact amount of energy and nutrients, the energy and nutrient values may also be voluntarily expressed in a relative presentation (i.e. the percentage of a reference value which is called the nutrient reference value). The %NRV is usually on a scale from 0% to 100%.

NRVs are derived for nutrition labelling purposes. In Hong Kong, there is a set of NRVs (Please refer to Annex for details) which is based on a 2000-kcal diet and is derived from recommended intake levels of various nutrients for a healthy diet. Therefore, they can be used as a general reference for daily nutrient intake or limit. Food manufacturers may call it the Chinese NRV.

As food products available in Hong Kong may be imported from overseas countries, these products may use different reference values, such as Daily Value (DV) adopted in the United States and Canada, or Daily Intake (DI) in Australia.



A high %NRV means the food contains a lot of a nutrient whereas a low %NRV means it contains just a little. A general and simple rule is to look for foods that have lower %NRV for nutrients that you need to limit

> e.g. total fat, saturated fat, sodium and sugars, and higher %NRV for nutrients that are good for your health e.g. dietary fibre.

3Low 1High

A DISTRICTOR

information on nutrition labels, besides referring to the percentage, the best practice is to check the actual nutritional content whenever they are available to get a nutritional overview of the product and make healthy food choices.

Whenever using the

Prepackaged food only contributes a proportion of the overall diet. To eat healthily, one should always follow the healthy eating principle, i.e. a balanced diet with variety, and practise the "3Low 1High" recommendation, i.e. low fat, low salt (sodium), low sugars and high fibre.

Chinese Nutrient Reference Values

Energy or Nutrients	Chinese Nutrient Reference Value
Energy (kcal)	2000
(kJ)	8400
Protein (g)	60
Total fat (g)	60
Dietary fibre (g)	25
Saturated fatty acids (g)	20
Cholesterol (mg)	300
Carbohydrates (g)	300
Calcium (mg)	800
Phosphorus (mg)	700
Potassium (mg)	2000
Sodium (mg)	2000
lron (mg)	15
Zinc (mg)	15
Copper (mg)	1.5
lodine (µg)	150
Selenium (µg)	50
Magnesium (mg)	300

Annex

Chinese Nutrient Reference Values

Annex

Energy or Nutrients	Chinese Nutrient Reference Value
Manganese (mg)	3
Chromium (µg)	50
Molybdenum (µg)	40
Fluoride (mg)	1
Vitamin A (µg RE)	800
Vitamin C (mg)	100
Vitamin D (µg)	5
Vitamin E (mg α-TE)	14
Vitamin K (µg)	80
Vitamin B1 (mg)	1.4
Vitamin B2 (mg)	1.4
Vitamin B6 (mg)	1.4
Vitamin B12 (µg)	2.4
Niacin (mg)	14
Folic acid (µg DFE)	400
Pantothenic acid (mg)	5
Biotin (µg)	30
Choline (mg)	450

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- Department of Health
- Education Bureau
- Food and Environmental Hygiene Department
- Hong Kong Dietitians Association
- Hong Kong Nutrition Association
- Hospital Authority
- The Hong Kong Medical Association

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