For discussion on 15 April 2005

LegCo Panel on Food Safety and Environmental Hygiene

Way Forward for the Labelling Scheme on Nutrition Information

PURPOSE

This paper briefs members on the results of the public consultation exercise and the Regulatory Impact Assessment, and the proposal for implementing the Labelling Scheme on Nutrition Information in Hong Kong.

INTRODUCTION

2. As part of our ongoing efforts in promoting public health, the Administration has proposed to introduce a Labelling Scheme on Nutrition Information (herein after referred to as "the scheme") for prepackaged food in Hong Kong. The aims of our proposed scheme are to facilitate consumers in making healthy food choices; encourage food manufacturers to apply sound nutrition principles in the formulation of foods which would benefit public health; and regulate misleading or deceptive labels and claims on nutrition information.

PUBLIC CONSULTATION

3. To collect views and comments from the public and stakeholders on the scheme, a public consultation exercise was conducted between November 2003 and January 2004. We received about 180 written submissions on how the scheme should be implemented in Hong Kong¹. During the period, we met with various stakeholders, including representatives of the trade, and the general public in an array of meetings and two public forums. We also approached all

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¹ During the public consultation period between November 2003 to January 2004, we received over 160 written submissions to express views on the proposed scheme. Since then, 17 additional submissions reached HWFB between 1 February to 30 June 2004. To take into account as broad an array of views as possible, the views expressed in the submissions of the latter group will also be reflected in this paper.

18 District Councils (DCs) to brief their Members on our proposal and were invited to attend the meetings of 15 of them. The proposal on which we consulted the public and the DCs is provided in <u>Annex I</u>.

Written Submissions

- 4. We received a total of 180 written submissions commenting on our proposal. Among them, 63 were from the general public, the Consumer Council and other community associations. Three submissions were from patient groups. We received 30 submissions from the trade and consulates, and 80 submissions from dietitians, nutritionists, medical professionals and organizations. There were also four submissions from Legislative Council Members and political parties.
- 5. The majority of the submissions received supported the objectives of Among the 180 submissions, most (134 submissions or nutrition labelling. around 74% of all the submissions) supported the scheme or some other mandatory nutrition labelling² schemes in Hong Kong. Two submissions (1%) considered that nutrition information should only be labelled voluntarily. Five submissions (3%) suggested that Hong Kong should accept the nutrition labels of the source countries from which our foods are imported. Four submissions (2%) considered that mandatory nutrition labelling should be confined to only those prepackaged foods with nutrient-related claims. On the scope of our proposed scheme, there were 13 submissions (7%) which counter-proposed much reduced There were 22 submissions (12%) whose scopes of mandatory labelling. fundamental attitude towards the proposed scheme was unclear and were not A more detailed analysis of the views is provided in Annex II. classifiable.

Consultation of the District Councils

6. The proposed nutrition labelling scheme received general support from the 15 DCs that we visited. Views were expressed in two-thirds (10) of those DCs that the implementation of the proposed scheme should be speeded up or that the scheme should be implemented as soon as possible.

² Under a mandatory nutrition labelling scheme, all prepackaged food products should have nutrition labels,

except for those exempted from the requirements. We propose to implement mandatory nutrition labelling in Phase II of our proposed scheme.

Public Opinion Survey

7. The views reflected in the submissions and deliberations in the DCs are echoed by the results of a public opinion survey commissioned by the Food and Environmental Hygiene Department in January 2004³. In the survey, about 95 percent of the respondents supported nutrition labelling and about 87 percent considered nutrition information on food labels important. Eighty-one percent of the respondents indicated that if all prepackaged foods would be labelled with nutrition information in the future, they would use such information.

REGULATORY IMPACT ASSESSMENT

- 8. To study the overall costs and benefits of introducing nutrition labelling to the society, including the potential benefits of lowering the overall health costs, the Administration commissioned a consultant to undertake a Regulatory Impact Assessment (RIA) to study the various options for implementing nutrition labelling in Hong Kong⁴.
- 9. The cost and benefit analysis conducted by the consultant suggested that with the exception of the options to regulate only energy plus 3 core nutrients, all the other options would present net economic benefits to Hong Kong. A summary of the quantitative costs and benefits is presented below: -

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³ In order to understand the public opinion towards nutrition information on labels of prepackaged foods and the implementation of a nutrition labelling scheme, a survey was conducted between 16 to 18 January 2004. In total, 1,202 respondents aged 18 or above were successfully enumerated by telephone interviews.

⁴ For the purpose of the RIA, the consultant studied eight options for the scheme to label energy plus different combinations of core nutrients on prepackaged food. There are two options for each combination depending on whether Phase I of the option would cover products with nutrition claims only or products with claims and / or any nutrition information.

Option ⁵	Option ⁵ NPV of NI		NPV of Net	Benefit-to-Cost
	Economic Costs ⁶	(HK\$ million)	Benefits ⁸	Ratio ⁹
	(HK\$ million)		(HK\$ million)	
Options I to IV: Phase I requi	res the labelling of	prepackaged food	with nutrient-related	d claims only. All
prepackaged food must provide n	utrition labels in Pho	ase II.		
I (energy + 9 core nutrients)	1,858	10,031	8,173	5.4
II (energy + 7 core nutrients)	1,798	6,798	5,000	3.8
III (energy + 5 core nutrients)	1,549	5,863	4,314	3.8
IV (energy + 3 core nutrients)	1,368	830	-538	0.6
Options V to VIII: Phase I requi	ires the labelling of	prepackaged food w	ith nutrient-related	claims and / or any
nutrition labels. All prepackage	ed food must provide	nutrition labels in P	hase II.	
V (energy + 9 core nutrients)	2,013	11,077	9,064	5.5
VI (energy + 7 core nutrients)	1,944	7,461	5,516	3.8
VII (energy + 5 core nutrients)	1,671	6,360	4,688	3.8
VIII (energy + 3 core nutrients)	1,463	873	-590	0.6

Table 1: Costs and Benefits of the Options (Phase I and Phase II)

(Extracted from Table 1.5, P.10, Executive Summary of the RIA)

10. Considering the labelling requirements in other parts of the world, cost impact on the trade ¹⁰ and the benefits to Hong Kong, the consultant recommended that Phase I of the scheme should cover energy plus five core

⁵ The core nutrients for the options are: -

Options I and V: energy plus protein, carbohydrate, total fat, saturated fat, cholesterol, sugars, sodium, dietary fibre and calcium.

Options II and VI: energy plus protein, carbohydrate, total fat, saturated fat, cholesterol, sugars, sodium.

Options III and VII: energy plus protein, carbohydrate, total fat, saturated fat, sodium.

Options IV and VIII: energy plus protein, carbohydrate, total fat.

⁶ NPV stands for "Net Present Value" of the benefits and costs in 20 years' time. This column shows the economic costs for the period of 2008 to 2027, discounted at a rate of 4% to 2005. Economic costs comprises trade compliance costs, Government enforcement costs, costs on relevant education and economic costs due to lost products. Details on trade compliance costs are provided in Appendix.

⁷ This column shows the total benefits for the period of 2008 to 2027, discounted at a rate of 4% to 2005. It comprises benefits arising from savings from avoided public hospital admissions, visits to General Practictioners and associated medicines, reduction in lost productivity and premature death.

⁸ This column shows the stream of net economic benefits (benefits less costs) for the period 2008 to 2027, discounted at a rate of 4% to 2005.

⁹ Benefit to cost ratio is the NPV of Benefits divided by the NPV of Economic Costs.

¹⁰ Trade costs are likely to be significant for some small manufacturers, retailers and importers. The RIA showed that a number of niche products with low sales revenue and profit could cease to be exported to Hong Kong, amounting to maximally between 5% and 10% (under Option V, the most stringent option to label energy plus nine core nutrients) of product variety on sale in Hong Kong. The cost to the economy arising from product losses could be as much as HK\$140 million as well as imposing recurrent opportunity costs of some HK\$20 million per annum. This could represent the closure of up to 191 (less than 1%) small businesses involved in the import and retail of food products.

nutrients, (i.e., protein, carbohydrate¹¹, total fat, saturated fat and sodium). There should be a two-year grace period before the implementation of Phase I. Phase II of the scheme should be expanded to cover energy plus nine core nutrients (i.e., protein, carbohydrate, total fat, saturated fat, sodium, cholesterol, sugars, dietary fibre and calcium). The timing of the implementation of Phase II should be reviewed one year after Phase I has been implemented, mainly pending developments overseas¹². The consultant also considered that there should be at least a two-year grace period after the Administration announces the implementation of Phase II¹³.

11. Further details of the RIA are provided in the Executive Summary attached at Annex III.

REVISED PROPOSAL

12. Having considered the local health situation, views collected during the consultation exercise and the results of the RIA, we propose to introduce a nutrition labelling scheme in Hong Kong in two phases: -

Phase I: Labelling of prepackaged food with nutrient-related claims only. Existing products that carry nutrition information but without claims would be excluded in Phase I. Prepackaged food with nutrient-related claims need to label energy plus five core nutrients, namely protein, carbohydrate, total fat, saturated fat and sodium on their packages, as well as any nutrient for which a claim is made. On the enactment of the relevant legislation, there will be a two-year grace period before the implementation of Phase I.

Phase II: Mandatory nutrition labelling of all prepackaged food, except those exempted. All prepackaged food need to label energy plus nine core nutrients, namely protein, carbohydrate, total fat, saturated fat, sodium, cholesterol, sugars, dietary fibre and calcium, as well as any

[&]quot;Carbohydrate" in this paper refers to "available carbohydrate", which is carbohydrate excluding dietary fibre.

The consultant recommended the Administration to announce the implementation of Phase II if other significant trading partners have adopted similar comprehensive schemes.

¹³ The consultant also recommended various measures to facilitate the effective implementation of the scheme, including to keep the industry cost down; provide public education and technical assistance to the industry and consumers; develop a detailed monitoring and evaluation strategy and consider measures to minimize the cost impact to small and medium-sized enterprises (SMEs).

nutrient for which a claim is made. Phase II will be implemented two years after the implementation of Phase I. According to the RIA findings, almost all prepackaged food in the market would require some actions to comply with the labelling requirements.

Justifications

- 13. Internationally, nutrition labelling has been introduced to more and more jurisdictions to promote healthy eating. Overseas experience shows that the labelling of nutrition information can have positive impact on food consumption behaviour. In many countries, it also helps save healthcare costs and human lives. The views collected during our public consultation revealed that the community at large, including the professional groups, Consumer Council and other community associations, rendered strong support to the Administration to implement a nutrition labelling scheme. The results of the RIA showed that, even taking into account of its costs to the trade, mandatory nutrition labelling is beneficial to Hong Kong in the promotion of public health and the lowering of health-related costs.
- 14. As shown in the RIA, proceeding with the revised proposal to label "energy plus five core nutrients" during the implementation of Phase I coupled with the requirement to label energy plus nine core nutrients in Phase II will present substantial net benefits to Hong Kong through savings in health care, avoided productivity losses and reduction of premature deaths. The reason for requiring the labelling of "energy plus five core nutrients" instead of "energy plus nine core nutrients" during Phase I is that although the former option would yield less net benefits to the community than the latter option, the initial compliance cost is significantly lower. When compared with our original proposal (i.e., Option V¹⁴), the impact on the trade in Phase I due to the revised proposal is reduced by more than half in terms of the financial costs and the number of products impacted¹⁵. The revised proposal also compares favourably with the option to label "energy plus seven core nutrients" during Phase I of the scheme: -
 - On the benefit side, labelling energy plus five core nutrients in Phase I still has considerable net benefits;

¹⁴ Under option V, energy plus nine core nutrients must be labelled. Nutrient-related claims and any nutrition information on prepackaged food would be regulated during Phase I of the scheme.

¹⁵ According to the RIA, the initial compliance cost during Phase I of Option V is HK\$ 193 million and that of Option III (Phase I of the revised proposal) is HK\$ 65 million.

- Initial compliance costs arising from our revised proposal in Phase I are significantly lower than those associated with the options to label energy plus seven core nutrients¹⁶;
- Our revised proposal to label energy plus five core nutrients during the implementation of Phase I is compatible with the schemes implemented in quite a number of our key trading partners that have nutrition labelling in place. It reduces the initial cost required to test and relabel prepackaged food¹⁷; and
- In terms of cost effectiveness, the benefit-to-cost ratio of our revised proposal is comparable to the options to label energy plus seven core nutrients during Phase I¹⁸.
- 15. The RIA showed that the net benefits to label energy plus nine core nutrients, as well as its benefit-to-cost ratio, are significantly higher than the options to label energy plus seven or five core nutrients when the effect of both Phase I and Phase II are taken into account. Further, the benefit-to-cost ratios of labelling energy plus seven and five core nutrients are the same. As such, we consider that the option of labelling "energy plus nine core nutrients" should be adopted in Phase II to benefit the community to a greater extent in the long run. On the other hand, the trade would have had a sufficient lead time to prepare for the changes required in Phase II. We believe that our revised proposal has struck the right balance between achieving our long-term public health objectives and helping the trade in adapting to the changes in the short run.

NEXT STEPS

16. We will proceed with drafting the legislation. Our aim is to introduce the legislative amendments to the Legislative Council in 2006. In the mean time, we will continue our dialogue with the trade and the professional sector over the implementation issues of the scheme, including developing guidelines for nutrient testing and setting up local Nutrient Reference Values¹⁹. We will also

¹⁶ According to the RIA, the initial compliance costs during Phase I of Option II (energy plus seven core nutrients) and Option III (energy plus five core nutrients) are HK\$ 84 million and HK\$ 65 million respectively.

¹⁷ When more countries implement or widen the scope of their nutrition labelling schemes during the grace period before the implementation of Phase II, as the current international trend suggested, the costs of nutrition labelling to the trade would be further lowered.

¹⁸ For Phase I only, the benefit to cost ratios of Options II, III (our revised proposal), VI and VII were 4.2, 4.2, 3.7 and 3.5 respectively.

Nutrient Reference Values (NRVs) are a set of values used for labelling purposes and consist of one single value for each individual nutrient. NRVs are intended to assist consumers to evaluate the contribution of a food

strengthen our public education on the health significance of nutrition.

17. Members are invited to note the results of the public consultation exercise and the RIA, and to comment on the revised proposal for implementing the scheme in paragraphs 12 to 15.

Health, Welfare and Food Bureau Food and Environmental Hygiene Department April 2005

Annex I

THE PROPOSED SCHEME²⁰ IN THE PUBLIC CONSULTATION DOCUMENT

Phase		Coverage	No. of Core Nutrients	Grace Period
I	_	Nutrition labelling is required for prepackaged food products	Energy plus protein,	2 years after
		only with nutrient-related claims.	carbohydrate, total fat,	enactment of the
			saturated fat, cholesterol,	legislation
	_	Other prepackaged food products may provide nutrition labelling	sugars, dietary fibre,	
		voluntarily in accordance with specified requirements.	sodium and calcium	
II	_	All prepackaged food products should have nutrition labelling,	Ditto	3 years after the
		except for those exempted from the requirements.		implementation
				of Phase I.

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The proposed scheme is developed based on the Guidelines developed by the Codex Alimentarius Commission (Codex), local health situation and international practices. Codex, an organization created by the Food and Agriculture Organisation and the World Health Organisation, is recognized as the international authority for setting food related standards. The latest Codex Guidelines on nutrition labelling require at least the values of energy, and 3 other core nutrients (available carbohydrate, protein and fat) to be declared when nutrient-related claims are made. The Guidelines also require the declaration of the amount of any other nutrient for which a claim is made.

PUBLIC CONSULTATION DETAILED ANALYSIS OF VIEWS RECEIVED

Written Submissions

Public, Consumer Council and Community Associations

Among the submissions of the general public, Consumer Council and other community organizations, 50 submissions (79%) of them supported the scheme or implementing mandatory nutrition labelling in Hong Kong. Two submissions (3%) opted for the adoption of source countries' nutrition labelling requirements and one (2%) proposed a labelling scheme with a much reduced scope. Eighteen submissions (29%) from this group urged for implementing nutrition labelling in Hong Kong as soon as possible or considered the proposed grace period of the scheme too long.

2. Reasons for supporting the scheme include "nutrition labelling is an important tool of disease prevention or health promotion", "facilitates healthier choices", "consumers' right to know", "catching up with the international scene", etc. Those who considered the adoption of source countries' labelling requirements sufficient felt that Hong Kong was too small a market to have its own nutrition labelling scheme. Long-term patients also expressed their need to ascertain nutrient content in their everyday diet to control illnesses. The one submission from the public that proposed a reduced scope of nutrition labelling suggested mandating labelling of energy plus three core nutrients only.

Patient Groups

3. All three (100%) of the submissions from the patient groups supported our scheme. They also urged for speedier implementation of mandatory nutrition labelling in Hong Kong. Among them, one (33%)

submission demanded for the inclusion of food for special dietary purposes into the scheme.

Professionals and Related Organisations

- 4. Seventy-eight (98%) of the submissions from dietitians, medical doctors and other related personnel or organizations supported the scheme or implementing mandatory nutrition labelling in Hong Kong for public interest. The professionals mostly considered nutrition labelling essential for making product-to-product comparisons and increase the practicality of therapeutic diets. Nutrition labelling is also a form of health education and encourages the manufacturing of healthier food. Two submissions (2%) proposed a more elaborate mode for implementing mandatory nutrition labelling locally.
- 5. Among the group, 18 submissions (23%) considered the proposed implementation timeframe too long or urged for mandating nutrition labelling as soon as possible. Five submissions (6%) considered the proposed implementation timeframe appropriate.

Consulates, trade and trade representatives

- 6. While in support of the principles to offer consumers more information of food products to facilitate choice, the trade indicated that a mandatory nutrition labelling scheme would have serious impact on the trade and consumers alike. They were worried that the scheme would increase the costs of food. According to the trade, Hong Kong was a very small market. Overseas manufacturers would be unwilling to re-package their foods specifically to fulfill nutrition labelling requirements in Hong Kong. Eventually, overseas manufacturers would give up the Hong Kong market and this would reduce food choices for local consumers.
- 7. Most submissions from the trade proposed to modify the scheme fundamentally to: voluntary nutrition labelling (2 submissions or 7%), mandatory labelling for prepackaged foods with nutrient-related claims

only (4 submissions or 13%), adaptation of source countries' requirements (3 submissions or 10%) or mandatory nutrition labelling with much smaller scopes (9 submissions or 30%)²¹.

8. Generally, the trade hoped to see more limited and flexible implementation of nutrition labelling, and a scheme that synchronise with the requirements of our major trading partners, notably the Mainland (4 submissions or 13%).

LegCo Members and Political Parties

9. Three of the four submissions (75%) in the group expressed support for the scheme. One submission proposed a reduced scope of mandatory nutrition labelling. Two submissions (50%) urged for a faster implementation of the scheme. The submissions generally shared the view of the general public and professionals in supporting the scheme. The views of the trade were also echoed in the submission suggesting a more limited form of nutrition labelling.

Other views

10. Among the general public, patient groups, professionals and political parties, there were demands to implement mandatory nutrition labelling more widely. There are also 21 submissions from the general public, patient groups, professionals and political parties which suggested that additional nutrients, such as transfat and potassium, should be labelled compulsorily. Thirteen sets of views urged for the expansion of the scheme to cover foods for infants, young children, food for dietary purposes, etc. Ten submissions urged for enlarging the scope of exemptions. There was considerable emphasis on the need for public education and effective enforcement.

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²¹ For the last category, the trade and their representative proposed that the scope of mandatory nutrition labelling should be confined to certain food types: foods packed in Hong Kong, specified staple foods, locally produced foods, or foods with nutrient-related claims. Imported food should be required to comply with source countries' requirements only. In case of mandatory labelling, those submissions from the trade suggested that only carbohydrate, protein, fat and energy level would need to be labelled compulsorily.

District Councils (DCs)

11. There were also calls in the DCs for including foods for infants, young children and special dietary purposes under the ambit of the scheme. Concerns were raised in seven DCs regarding compliance costs, the difficulties imposed on the trade or that the costs might be transferred to consumers. DC members also made various comments as to the number of core nutrients, expression and presentation of nutrient content, nutrient-related claims, Nutrient Reference Value, exemptions, etc.

Option	NPV of Trade Costs ²² (HK\$ million)			
Options I to IV: Phase I requires the labelling of prepackaged food with nutrient-related claims only.				
All prepackaged food must provide nutrition labels	in Phase II.			
I (energy + 9 core nutrients) 1,615				
II (energy + 7 core nutrients)	1,563			
III (energy + 5 core nutrients)	1,338			
IV (energy + 3 core nutrients)	1,180			
Options V to VIII: Phase I requires the labelling of	prepackaged food with nutrient-related claims and			
or any nutrition labels. All prepackaged food mu	ust provide nutrition labels in Phase II.			
V (energy + 9 core nutrients)	1,757			
VI (energy + 7 core nutrients)	1,697			
VII (energy + 5 core nutrients)	1,451			
VIII (energy + 3 core nutrients)	1,268			

Table 2: Trade Costs of the Options (Phase I and Phase II)

(Extracted from Table 1.5, P.10, Executive Summary of the RIA)

 $^{^{22}}$ This column shows the trade compliance costs for the period of 2008 to 2027, discounted at a rate of 4% to 2005. It includes testing costs and relabelling costs.

1 EXECUTIVE SUMMARY

1.1 Introduction

ERM was commissioned by the Economic Analysis and Business Facilitation Unit, Financial Secretary's Office, to undertake a Regulatory Impact Assessment (RIA) to consider options for a labelling scheme for nutrition information. The objective of the RIA was to assess the health and economic impacts of introducing a nutrition labelling scheme in Hong Kong.

1.2 KEY RECOMMENDATIONS

As a result of this assessment, ERM recommends that the Administration should initially proceed with a scheme that requires nutrition labelling for any pre-packaged food product that makes a nutrient-related claim on its packaging. Such nutrition labelling should meet the specified requirements and include information on the quantity of the nutrient being claimed as well as the energy, protein, available carbohydrate, fat, saturated fat and sodium content of the product. Such a scheme should be introduced with a two-year grace period.

The assessment undertaken indicates that, combined with an education programme and corresponding changes in consumer behaviour, this approach would have significant benefits to Hong Kong in terms of improved health and a reduction in associated health costs and productivity losses. Furthermore, this initial scheme is similar to that in place in a number of key trading partners. Indeed, the analysis suggests that such an approach would have a net economic benefit to Hong Kong, generating over two hundred million dollars of economic savings per year, while the costs imposed on the food sector are unlikely to exceed HK\$ 40 million, which is only 0.2% of household expenditure on pre-packaged food products.

A statement of intent to introduce a more comprehensive nutrition-labelling scheme in the future should accompany the implementation of this initial scheme. It is recommended that this second phase of implementation should require all-prepackaged food to provide information on their nutrient content and that the number of nutrients requiring labelling should be increased. In addition to the labelling of energy, protein, available carbohydrate, fat, saturated fat and sodium, the second phase of implementation would require labelling of cholesterol, sugars, dietary fibre and calcium. Of the options examined, the assessment suggested that this option (eg, labelling energy plus nine nutrient categories) would have the highest benefits to Hong Kong in terms of improved health and a reduction in associated health costs and productivity losses as well as being the most cost-effective (eg, highest benefit to cost ratio).

The timing of implementation of this second phase should be subject to review. One key factor to be taken into consideration is the developments overseas. Hong Kong imports the vast majority of its products from overseas and the introduction of a comprehensive nutrition labelling scheme (such as that suggested for the second phase of implementation) in Hong Kong would require substantial action by food industries to ensure compliance. These compliance costs with regard to testing would be significantly reduced if the implementation of the scheme were timed to correspond with developments overseas (1). ERM is therefore recommending that the timing of implementation of the second phase be reviewed three years after the legislative enactment. This will allow one full year of

⁽¹⁾ Compliance cost would be significantly reduced as less products would require testing exclusively for the Hong Kong scheme and relabelling efforts could be combined with those for overseas schemes.

implementation of Phase I to be taken into account in the review. If other significant trading partners have adopted similar comprehensive schemes then ERM recommends that the Administration announces the implementation of the second phase, allowing at least a two-year grace period for the trade to ensure compliance.

The background to these recommendations, the analysis undertaken during the RIA and the findings of such analysis, as well as possible supporting measures to this proposed approach are summarized in the subsequent sections. Further details can be found in the main study report.

1.3 BACKGROUND TO THE STUDY

Nutrition-related diseases are important public health problems in many parts of the world, including Hong Kong. Nutrition labelling is a valuable mechanism to help change eating behaviour. Existing legislation in Hong Kong does not include specific provision for standardised nutrition information on food labels. In addition, the data to support the nutrition claims displayed on food labels are often not available and nutrition claims on packages are sometimes misleading.

Codex ⁽¹⁾ guidelines suggest the listing of energy value, amounts of protein, available carbohydrate (ie, carbohydrate excluding dietary fibre) and fat. The guidelines also recommend the inclusion of the amount of any other nutrient for which a nutrition claim is made and the amount of any other nutrient considered to be relevant for maintaining a good nutritional status, as required by national legislation.

Overseas, nutrition labelling either on general food types or specified foods is increasingly becoming mandatory. At least 27 countries have labelling schemes on nutrition claims and 18 countries have nutrition labelling schemes on certain foods with special dietary uses. Of particular note and relevance to Hong Kong, is the fact that Mainland China has drafted legislation requiring nutrition labelling and is currently considering implementation details (including timing).

Consistent with worldwide trends, the Administration is considering introducing a mandatory nutrition-labelling scheme in phases. The scheme is intended to enhance public health by:

- facilitating consumers in making healthy food choices;
- encouraging food manufacturers to apply sound nutrition principles in the formulation of foods which would benefit public health; and
- regulating misleading or deceptive nutrition labels and claims.

Table 1.1 illustrates the nutrition labelling requirements of nine countries/regions that represent important trading partners for food items in Hong Kong. All nine of them require the labelling of four core nutrients as specified in the Codex guidelines, while products meeting the requirements of six of these jurisdictions (Australia, New Zealand, Canada, the USA, the European Community and Thailand) would have the requisite nutrient information for the initial option recommended for implementation in Hong Kong (ie, Phase I requiring labelling of energy plus the three core nutrients specified in Codex, saturated fat and sodium when nutrition claims are made).

Table 1.1 International Labelling Requirements on Core Nutrients

Countries	Energy, Protein, Carbohydrate & Fat	Saturated Fat	Sodium	Sugar	Cholesterol	Fibre	Calcium	Other Nutrients	Total	Specified Nutrient Content Expression
Mandatory Labelli	ing									
Australia/NZ	•	•	•	•					7	Per serving and per 100g (or 100 ml)
Canada ⁽¹⁾	•	•	•	•	•	•	•	•	14	Per serving
Malaysia ⁽²⁾	•								4	Per 100g (or per 100 ml) or per package if the package contains only a single portion and per serving as quantified on the label
USA(3)	•	•	•	•	•	•	•	•	14	Per serving
Mandatory Labelli	ing in some circun	nstances (4)								
EC ⁽⁵⁾	•	•	•	•		•			8	Per 100 g (or per 100 ml). In addition, this information may be given per serving as quantified on the label or per portion, provided that the number of portions contained in the package is stated.
Japan ⁽⁶⁾	•		•						5	Per 100g (or 100mL), or per serving, per package, or per other appropriate unit.
Singapore (7)	•	•	•		•	•			8	Per serving and Per 100g (or per 100mL)
Thailand ⁽⁸⁾	•	•	•	•	•	•	•	•	15	Per serving. Per 100g (or per 100mL) shall be used if the serving size cannot be determined.

Further details of some of the schemes can be found in *Annex B* of the main report.

Notes:

- (1) Canada published regulations making nutrition labelling mandatory on most food labels in 2003, which will commence implementation by the end of 2005.
- (2) Mandatory labelling for the following foods: cereal food and bread; milk product; flour confection (eg pastry, cake, biscuit etc); canned meat, fish and vegetable; canned fruit and various fruit juices; salad dressing and mayonnaise, and; soft drinks.
- (3) Transfat is required on the Nutrition Facts panel in the U.S. by January 1, 2006. This will take the total number of nutrients required to 15.
- (4) A number of countries only require nutrition labelling when a nutrient-related claim is made on the packaging or where any nutrient-related information is included on the packaging.
- (5) The EC Directive on nutrient labelling requires mandatory labelling when a nutrient-related claim is made. When any claim is made then nutrition labels should be provided for claim nutrient(s) as well as energy value and the amounts of protein, carbohydrate and fat. However if a nutrition claim is made for sugars, saturated fat, fibre or sodium then all eight nutrients should be labelled.
- (6) Mandatory labelling in Japan for products with claims or existing labels. The listing of calories, protein, fat, carbohydrates, sodium and claimed nutrient(s) is required.
- (7) Mandatory labelling in Singapore for products with claims requires the listing of energy, protein, carbohydrates, fat and the claimed nutrient(s). In addition, nutrition labelling voluntary guidelines includes the listing of the above 8 core nutrients. Voluntary guidelines currently under review, considering proceeding to a mandatory scheme.
- (8) Mandatory labelling in Thailand for food with claims and food that use nutritional values in sales promotion; food specifically targeted at a group of consumers eg elderly people; and other foods as may be specified by the FDA. Label must include claimed nutrient(s) plus the required nutrients on the label.

1.4 OPTIONS EXAMINED DURING THE STUDY

Based on experience overseas and the consultation exercise initiated in November 2003, the Steering Group for the Study proposed eight possible implementation options for analysis by ERM (Option I to VIII). Each option provides for a two-phased approach, requires a number of different nutrients to be labelled in a specified nutrient content expression (specified requirements⁽¹⁾) and includes exemptions. In addition, ERM examined the implication of delaying the second phase of implementation. The options are summarised in *Table 1.2.* It is noted that Option V is the scheme that was put forward in public consultation.

Table 1.2 Definition of Options

Options	Number of nutrients	Phase I Approach	Phase II Approach
I II III IV V VI	Energy + 9 core nutrients Energy + 7 core nutrients Energy + 5 core nutrients Energy + 3 core nutrients Energy + 9 core nutrients Energy + 7 core nutrients	If packaging includes a nutrient-related claim then labelling is required to meet the specified requirements. If packaging includes a nutrient-related claim	All products must be labelled and labelling must meet the specified
VII VIII	Energy + 5 core nutrients Energy + 3 core nutrients	and/or an existing label then labelling is required to meet the specified requirements.	requirements.

Phase I Approach

For each of the eight options, nutrition labelling meeting the specified requirements must be provided on any pre-packaged food product that includes a nutrient-related claim. For Options I to IV, prepackaged foods that do not include a nutrient-related claim can voluntarily provide nutrition labelling in any format. However, for Options V to VIII, nutrition labelling must meet specified requirements if it is provided on a pre-packaged food product.

Phase II Approach

In Phase II mandatory nutrition labelling is required for all prepackaged foods, except for those granted an exemption.

Number of Nutrients Requiring Labels

The Study examines four possible variations on the number of core nutrients requiring labels. These are as follows:

- Energy plus 9 core nutrients, including protein, available carbohydrate, fat, saturated fat, sodium, cholesterol, sugars, dietary fibre and calcium.
- Energy plus 7 core nutrients, including protein, available carbohydrate, fat, saturated fat, sodium, cholesterol and sugars.
- Energy plus 5 core nutrients, including protein, available carbohydrate, fat, saturated fat and sodium.

^(!) Energy/nutrients have to be expressed in either of the following manner: (i) in absolute amount in kilocalories/metric unit per 100 g (or per 100 ml) of food; and/or (ii) if the package contains only a single portion, in absolute amount in kilocalories/metric unit per package. In addition, energy/nutrients may be expressed: (i) in absolute amount in kilocalories/metric unit per serving as quantified on the label; or (ii) in relative amount in terms of percentages of the local NRVs per 100 g (or per 100 ml) or per serving as quantified on the label.

• Energy plus 3 core nutrients, including protein, available carbohydrate and fat.

Exemptions

The exemptions, as proposed by the Administration, were based, in part, upon the current exemptions under the *Food and Drugs (Composition and Labelling) Regulations*.

1.5 Business Stakeholder Comments

While the scope of the study did not include undertaking a formal consultation on the proposed regulations, the Consultants contacted and sought the views of business stakeholders. A variety of views were expressed, a selection of which are summarised below.

- The HKSAR Government should introduce a simple nutrition labelling system with the
 minimum number of core nutrients (eg following the basic requirements of Codex).
 They can increase the number of nutrients later and in fact, due to the health
 consciousness of Hong Kong people, food producers will provide nutrition labelling
 voluntarily even without regulatory pressure.
- If overseas manufacturers/exporters know in advance (eg 3 years) that they have to relabel food products to adapt to the Hong Kong nutrition labelling requirements, the manufacturers/exporters are usually willing to comply.
- It is unlikely that the retailers will do relabelling themselves, they will simply not sell the products which do not meet the labelling standards.
- There should be exemptions for small and medium sized enterprises (SMEs) as large firms can bear the testing/relabelling cost but the small ones cannot. The cost of relabelling is very likely to be transferred to consumers due to the competitiveness of the food industry.
- Until there is an international consensus on nutritional labelling, there should not be mandatory nutritional labelling in Hong Kong on all prepackaged food items⁽¹⁾.
- There is no worldwide nutritional labelling scheme in place and many of Hong Kong 's key trading partners have different regulatory regimes. Yet Hong Kong imports 90% of its food from many different parts of the world and Hong Kong is a small volume market for overseas manufacturers. If Hong Kong has stricter or different nutritional labelling laws from its trading partners, this will lead to restricted choice of products in Hong Kong and an increase in the price of products resulting from the compliance costs or relabelling cost, etc.
- The number of nutrients required on labels should be the lowest common nutrients required in all other countries. The greatest impact would be on importers (not local manufacturers or retailers). There should be no problem for manufacturers whose products are specially packaged for the Hong Kong market.
- Discussions with laboratories and testing facilities in Hong Kong suggest that they have the know-how to perform the necessary testing for the Trade. Many of the laboratory and testing facilities present in Hong Kong are part of or associated with international companies and as such have access to a network of testing facilities.

⁽¹⁾ It is noted that the Hong Kong specified requirements are based on Codex guidelines regulating nutrition labels and claims, which were drawn up and endorsed by the member countries.

1.6 ANALYSIS OF BENEFITS AND COSTS

The Study included a cost-benefit analysis of the options. The approach taken and the results of this analysis are summarized below.

1.6.1 Benefits of Nutrition Labelling Options

An analysis undertaken by the Department of Community Medicine at the University of Hong Kong⁽¹⁾ identified a number of costs associated with nutrition-related diseases, as well as the likely reduction in these costs that could be achieved through education, nutrition labelling and corresponding changes in consumer behaviour. If consumers are sufficiently educated, the provision of nutrition labels allows for consumers to make healthy food choices, resulting in lower costs for nutrition-related diseases. The Department of Community Medicine has identified the likely reduction in disease burden achievable from each of the 8 options by considering:

- likely changes in nutrition labelling practices and consumer behaviour in Hong Kong (including consideration of the baseline);
- the proportion of food consumed that is likely to be pre-packaged;
- the percentage of the population who would benefit from the labelling of a particular nutrient (eg, the obese, diabetics, hypertensive etc.); and
- the likely health effect of reduced or increased nutrient intake.

The changes in health effects due to reduced or increased nutrient intake were quantified in dollar terms by valuing:

- savings from avoided public hospital admissions for each of the nutrient-related conditions:
- corresponding savings from General Practitioners (GP) visits and medicines associated with each of the nutrient-related conditions;
- savings from a reduction in lost productivity due to hospital admissions of people under aged 65 and due to deaths avoided in people under aged 75; and
- premature deaths avoided due to a reduction in nutrient-related diseases⁽²⁾.

This analysis of the possible health benefits of a mandatory labelling scheme was focused on those benefits that are readily quantifiable from available data sets. This means that the quantifiable benefits associated with each option are limited to those associated with diseases for which reliable data sets are available. This limitation means that the analysis is likely to have undervalued the monetary and economic benefits attributable to each of the options. This is due to a number of gaps in the available data sets. For example:

⁽¹⁾ The report prepared by the Department of Community Medicine at The University of Hong Kong was reviewed by the following professors during its drafting and their comments were accounted for: Professor G. Guldan in the Department of Biochemistry at the Chinese University of Hong Kong, Professor C.M. Leung, School of Public Health, Faculty of Medicine, Chinese University of Hong Kong, and Professor S.F. Leung, Economics Department, Hong Kong University of Science and Technology.

⁽²⁾ This quantification included a valuation of human life associated with premature death in those under 75 years of age. The dollar value used was taken as HK\$ 10 million per premature death, irrespective of age at death. Placing an economic value on a life saved is a common practice in reviewing costs and benefits arising from health and safety policies and programmes and the value chosen was based on a review of such local and international values and studies (see main report for details). The main report also provides details of benefits attributable to each option without these mortality benefits.

- There are limited data sets on the health risk reductions available from altering intakes of some nutrients. For example, dietary fibre has been reported to decrease the risk of breast cancer, although the data are insufficient for the quantification of this impact.
- Valuing changes in quality of life is problematic. For example, fewer people suffering from diabetes, heart disease, strokes and other conditions could have a major impact on quality of life, although this benefit has not been quantified in the analysis.
- Only limited data are available on the costs of care and rehabilitation that takes place
 outside hospitals. While the analysis does include estimates for GP visits and medicines
 for some conditions, a number of other costs (such as those associated with home care)
 have not been included.

Further details of the approach to the benefits analysis can be found in the main report, while the numbers below represent the most likely estimate ⁽¹⁾ of quantifiable benefits that could be accrued due to any of the options. The analysis assumes that these benefits would take 15 years to accrue upon full implementation (eg, Phase I and II).

Table 1.3 Possible Benefits Arising from Options (HK\$ million)

Options	Phase I Maximum Annual Benefits	Phase II Maximum Annual Benefits	Total Maximum Annual Benefits
I	490	1,298	1,788
II	325	890	1,215
Ш	249	810	1,059
IV	31	121	152
V	1,040	748	1,788
VI	673	541	1,215
VII	510	549	1,059
VIII	53	98	152

Notes: The above costs are the mode of total achievable benefits arising from both Phase I and Phase II. For each option the analysis considered a range of possible outcomes where the upper and lower limits of the ranges were representative of the uncertainty surrounding the assumptions underpinning the benefits analysis. Furthermore the benefits attributable to Phase I and Phase II are assumed to take 15 years to accrue in full.

1.6.2 Compliance Costs Due to Nutrition Labelling

The introduction of a nutrition labelling scheme is likely to impose costs on importers, manufacturers and retailers in Hong Kong through, among other items, the need to undertake testing and relabelling of products. The Study examined these impacts and other impacts, through direct discussions and interviews with trade representatives, a market survey and a detailed analysis of the compliance costs. Given a combination of concerns expressed (particularly for, and by, SMEs) and the need to ensure that the financial and economic costs of implementing any scheme are fully considered, the Study has adopted a conservative approach to most aspects of estimating compliance costs. As a result of this exercise, the following costs were assumed to arise from any nutrition-labelling scheme and are included into the analysis:

• *Testing costs.* The analysis assumed that those products that do not currently have the necessary nutrient information would need to undergo laboratory analysis. The market survey undertaken by ERM identified the number of products that did not currently have a nutrition label and the analysis assumed that all of these products would have to undergo laboratory testing to meet the regulation.

⁽¹⁾ Modal value.

- Re-labelling costs. The analysis includes costs of having to attach additional labels onto products that are not specifically packaged for the Hong Kong market before local sale. Food products that are not exempted and have not been packaged with nutrition labelling meeting the proposed Hong Kong requirements are assumed to be relabelled before being put on the local shelves. The analysis assumes that importers, wholesalers or retailers are expected to incur the relabelling costs. The number of products requiring relabelling was identified through a market survey.
- *Economic costs due to lost products.* The introduction of a nutrition labelling scheme may lead to restrictions on the choice of imported products. The principal drivers of any decision to stop importing a product to Hong Kong are likely to be whether or not the costs of testing and labelling exceed the profit associated with that product and/or the ability of the market to absorb any price increases. Many of these products are likely therefore to be low volume, low profit products that are sold to consumers by niche retailers, both large and small. Due to the niche nature of these products, their loss is unlikely to be significant to the average consumer. However, the withdrawal of these products is expected to restrict the choices of some minority groups (eg, foreign domestic helpers) more than the average local consumer as these groups are more likely to purchase low volume and / or low profit products. For impacts on businesses, it is considered that while large niche retailers and importers/suppliers may be able to absorb these impacts, significant financial impacts are likely to be felt by any small retailers or importers who have to drop a notable proportion of their product range. The economic cost due to the loss of such products under each option/phase has been estimated by considering the value added (1) that such small importers and retailers provide to the economy.
- Government enforcement costs. The Administration provided an estimate of enforcement costs by making a number of assumptions on the level of resources required to enforce a nutrition labelling scheme. These costs included those associated with employing health inspectors, testing products in laboratories, handling prosecutions and complaints as well as nutrition labelling education and promotion.

It is acknowledged that these costs are not necessarily exhaustive. They do however represent the key costs likely to be incurred due to the implementation of a nutrition labelling scheme. A further discussion of the approach to the costs analysis, including a discussion of other costs not included in the analysis can be found in *Section 4* of the main report.

The key financial and economic costs arising from the implementation of the various options are summarised in *Table 1.4*.

^(!) Value added represents the additional value to the economy that a business creates. For food retailers and importers it is equal to their sales and other receipts, interest payments and changes in stocks minus income from other sources, the value of the purchases of goods for sale and non-salary related operating expenses.

Table 1.4 Cost Impacts from the Options (HK\$ million)

Options	Testing	Relabelling	Lost Product	Government	Total Costs (5)
-	Costs (1)	Costs(2)	Costs(3)	Costs(4)	
Phase I					
I	28	31	28	4.4	91
II	22	31	27	4.2	84
III	15	23	23	4.1	65
IV	9	22	19	3.9	53
\mathbf{V}	47	83	58	4.4	193
VI	36	82	56	4.2	178
VII	21	67	45	4.1	138
VIII	10	57	35	3.9	106
Phase II					
I	77	106	61	Incl. in Phase I	244
II	63	105	59	Incl. in Phase I	228
III	41	98	53	Incl. in Phase I	192
IV	22	89	47	Incl. in Phase I	158
\mathbf{V}	60	54	31	Incl. in Phase I	144
VI	51	54	31	Incl. in Phase I	135
VII	35	54	31	Incl. in Phase I	119
VIII	21	54	31	Incl. in Phase I	105

Notes: The above costs are the modes of initial compliance costs assumed to be incurred during Phase I and Phase II. For each option the analysis considered a range of possible outcomes where the upper and lower limits of the ranges were representative of the uncertainty surrounding the assumptions underpinning the cost analysis (eg, market survey results, testing costs etc).

- (1) Testing costs for products are one-off costs, although analysis includes a recurring testing costs associated with product turnover (eg, new products).
- (2) Relabelling costs are recurring costs.
- (3) Lost products costs are one-off economic costs. Recurring opportunity costs associated with being unable to introduce new products in the future are also included in the analysis.
- (4) Government costs represent recurring enforcement and promotion expenses dedicated to nutrition labelling. Costs exclude ongoing efforts to promote a balanced diet in Hong Kong by various government departments.
- (5) Total costs may not equal the sum of the other costs due to rounding.

1.7 FINDINGS AND RECOMMENDATIONS

The key findings of the cost-benefit analysis are summarised in *Table 1.5* and are discussed further below.

Table 1.5 Cost-Benefit Analysis of the Proposed Nutrition Labelling Scheme

Options	NPV of Trade Costs (HK\$ million) (1)	NPV of Economic Costs (HK\$ million)	NPV of Benefits (HK\$ million)	NPV of Net Benefits (HK\$ million) ⁽²⁾	Benefit to Cost Ratio (3)	Year when Benefits Exceed Costs ⁽⁴⁾	Max Annual Net Benefit (HK\$ million) ⁽⁵⁾
I	1,615	1,858	10,031	8,173	5.4	2013	1,620
II	1,563	1,798	6,798	5,000	3.8	2014	1,051
III	1,338	1,549	5,863	4,314	3.8	2014	916
IV	1,180	1,368	830	-538	0.6	-	24
V	1,757	2,013	11,077	9,064	5.5	2011	1,620
VI	1,697	1,944	7,461	5,516	3.8	2013	1,051
VII	1,451	1,671	6,360	4,688	3.8	2014	916
VIII	1,268	1,463	873	-590	0.6	-	24

Notes: The above results represent the most likely outcome of the various options. The main report provides details of the likely range of outcomes for each of the parameters. All Net Present Values are for a twenty-year period starting in 2008, discounted at a rate of 4% to 2005.

- (1) This column shows trade compliance costs for the period 2008-2027 discounted at a rate of 4% to 2005.
- (2) This column shows the stream of net economic benefits (benefits less costs) for the period 2008-2027 discounted at a rate of 4% to 2005.
- (3) Benefit to cost ratio is the NPV of Benefits divided by the NPV of Economic Costs.
- (4) This column shows the year in which the *cumulative* benefits of the scheme exceed the *cumulative* costs.
- (5) This column shows the maximum annual net benefit once the scheme has achieved full benefits.

1.7.1 Impact on the Trade

The introduction of a nutrition labelling scheme is likely to impose costs on importers, manufacturers and retailers in Hong Kong.

The Study identified that nutrition labelling of pre-packaged food in Hong Kong is relatively common, with more than half of products having some form of nutrition label and more than a quarter carrying a nutrient-related claim. However, the majority of these products would not meet the requirements of the options, with nearly all products having to relabel, repackage and/or test to meet the more stringent options (Options I & V). The more nutrients requiring labelling, the higher the overall cost impact on the trade due to the increase in number of products requiring labelling and/or testing.

During Phase I period, between 20% to 58% of the pre-packaged food and drinks products in Hong Kong would require upgrade of nutrition labelling, eg, through repacking or relabelling. The difference in initial trade compliance costs due to the two alternative approaches during Phase I is significant. This is because the number of products requiring some action due to the existence of just nutrient claims (eg, under Options I to IV) is around half that of those requiring action due to both nutrient-claims and/or existing nutrition-labels (eg, under Option V to VIII). This suggests that if initial trade compliance costs were a concern then they could be significantly reduced if only products currently carrying nutrient-claims needed to meet the specified requirements during Phase I.

The analysis also suggested that the costs associated with implementing the options are likely to be significant for some small manufacturers, retailers and importers. In particular, retailers and importers of niche products are likely to be impacted significantly if they are selling goods that cannot easily be substituted for suitably labelled products. The analysis suggested that a number of such niche products with low sales revenue and profit could cease to be exported to Hong Kong. These might amount to between 5% and 10% of product variety on sale in Hong Kong (under the most stringent option). While the loss of these products is unlikely to be significant to the average consumer (as they are low volume niche products), they will nevertheless impose costs on the Hong Kong economy due to the

financial losses incurred by some small importers and retailers. For example, economic costs to society could arise due to the lower profitability of retailing and importing businesses and, in some extreme cases, job losses and business closure in these sectors.

Furthermore, due to the likely nature of the products lost (eg, niche and low volume, low profit), it is also worth noting that the withdrawal of these products by niche retailers and their suppliers could restrict current choices of minority groups, such as foreign domestic helpers. While the impacts on SMEs will for the most part be temporary, it may be significant for those SMEs with limited resources. Indeed, the analysis suggested that the cost to the economy, arising from these products losses, could be as much as HK\$ 140 million as well as imposing recurrent opportunity costs (due to not being able to introduce other products in the future) of some HK\$ 20 million per annum. For illustrative purposes, this cost could represent the closure of up to 191 small businesses (less than 1% of SMEs involved in the import and retail of food products).

1.7.2 Net Economic Impact to Hong Kong

The analysis suggests that only Options IV and VIII (eg, labelling of the energy value, amounts of protein, available carbohydrate and fat as suggested by Codex as a minimum requirement) do not appear to have net economic benefits under any of the scenarios evaluated. This is partly due to the fact that, as identified through the market survey, nearly 50% of current packaging with nutrient information already includes labels for the four nutrients required under these two options. Thus, the compliance costs associated with implementing these options are not justified by the benefits as the additional information provided to consumers, and hence benefits available, is limited. It is noted however that the analysis does not take into account the benefits that may be attainable from some of the existing labels being altered so that they meet the specified requirements (1). However, examination of this issue suggests that even with the inclusion of benefits from such standardisation it is extremely unlikely that these two options would be cost-beneficial (further details are provided in the main report).

The other options were all identified as having a net economic benefit to Hong Kong. The analysis indicates that the benefits available, from reduced health care costs and lost productivity and avoidance of premature deaths, substantially outweigh the financial and economic costs of implementing such a scheme. Indeed the sensitivity analysis suggested that the ratio of these benefits to costs is at least 2 to 1 and could be as much as 10 to 1. Furthermore, the annual net economic benefit to Hong Kong, once full implementation of these options is achieved, could amount to between HK\$ 900 million (for Options III and VII) to HK\$ 1.6 billion (for Options I and V).

A significant component of these benefits are attributable to avoided premature deaths and HK\$ 10 million used for the quantifying the value of a human life. While this approach to placing an economic value on a life saved is common practice both locally and overseas it is noted that the actual value to be used in the analysis is not without controversy. However, examination of alternative values suggests that even if this value was as low as HK\$1.7

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⁽¹) Consumer surveys overseas have indicated that standardisation of nutrition labelling information, including claims, would allow consumers to accurately interpret labelling information and adjust their purchasing habits accordingly. Such benefits have not been quantified in this Study although an FEHD opinion survey in 2004 indicated that 94.5% of the general public supported standardisation of format of nutrition labels for easy reference by consumers and to avoid confusion. Furthermore, ERM's market survey indicated that the majority of existing nutrition labels in Hong Kong follow the specified nutrient content expression proposed by the Administration. For example, ERM's market survey indicated that of the 51% of products that carried a nutrition label, some 63% were either in the per 100 g/100 ml or in the per package (if a single portion)

million per life, these six options would remain cost-beneficial. A review of local and international literature suggests that such a value is unreasonably low and thus the findings can be relied upon.

1.7.3 Recommended Approach

Given the above findings, and in particular concerns identified regarding impacts to the trade and SMEs, ERM recommends a measured approach to implementing a nutrition-labelling scheme in Hong Kong. As detailed at the beginning of this document this would initially involve only labelling products on which a nutrition-related claim is made. Such nutrition labelling should meet the specified requirements and include information on the quantity of the nutrient being claimed as well as the energy, protein, available carbohydrate, fat, saturated fat and sodium content of the product. The reasons for recommending this option (ie adopting Option III during the Phase I period), rather than other options can be summarised as:

- Significantly lower trade compliance costs during Phase I. Based upon current labelling practices, the imposition of Phase I could have significant cost implications. The analysis suggested that Option III's compliance costs during Phase I are significantly lower than those associated with Phase I of Options I, II, V, VI and VII; and,
- Net economic benefits to Hong Kong. The analysis suggests that proceeding with Options I to III and Options V to VII will have substantial net benefits to Hong Kong through savings in health care, avoided productivity losses and reduction of premature deaths. While adopting Options I and V during the Phase I period would likely have significantly higher net benefits to Hong Kong, Option III still has considerable net benefits, and a benefit to cost ratio that is comparable to Options II and notably higher than Options VI and VII (1).

Thus the scheme recommended balances the needs for minimising the cost implications to the Trade and ensuring a cost-effective approach for Hong Kong as a whole.

Furthermore, it is noted then when compared to the original proposal by the Administration put out for consultation in November 2003 (Option V) this initial approach has significant merits. For example, the impact on the trade during the initial phase is more than halved (both in terms of financial costs and the number of products impacted), while substantial economic benefits to Hong Kong are still likely to accrue. While the recommended approach is not as stringent as that originally proposed by the Administration, its implementation would have significantly lower impacts on the local food industry and provide an important first step in improving the provision of nutrition information to the public.

Once developments overseas have progressed, and this first phase has been successfully implemented, a more comprehensive scheme could be adopted (eg, Option I during the Phase II period). Furthermore, the approach recommended would provide at least five years, if not more, before the implementation of a mandatory nutrition labelling scheme for all pre-packaged food products, thus providing the trade, and in particularly SMEs, ample time to adapt to the more stringent scheme.

In addition, the following recommendations are provided for consideration:

⁽¹⁾ For Phase I only, the benefit to cost ratios of Options II, III, VI and VII were identified as 4.2, 4.2, 3.7 and 3.5 respectively.

- Keep the industry cost down, eg by allowing a sufficient grace period for the manufacturers who package their products specifically for the Hong Kong market to incorporate any design changes into their routine redesign of food packaging.
- Ensure adequate public education, information services, promotion and appropriate technical assistance to the industry and consumers. Without a substantial and effective education and promotion programme, benefits from the recommended scheme will be limited. Furthermore providing information and assistance to industry will ensure that compliance costs are minimised, thus ensuring the cost-effectiveness of any scheme.
- Develop a detailed monitoring and evaluation strategy, which provides quantitative and qualitative information about the impact of the scheme, how well the regulatory arrangements are working, and the level of monitoring and enforcement activity. This should incorporate a review mechanism for deciding when to upgrade the scheme to Phase II and/or increase the number of core nutrient requiring labelling.
- Consider measures to minimise the cost impact on SMEs to ensure both the continued diverse choice available in Hong Kong and to mitigate against any corresponding economic costs. In addition to the supporting measures suggested above, other measures could include exemptions for SMEs if such exemption did not threaten the objective of the proposed measures. In this regard guidelines for granting exemptions should be developed to allow individual exemption applications to be quickly and fairly considered.

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