GENERAL NUTRITION KNOWLEDGE QUESTIONNAIRE

This is a survey, not a test. Your answers will help identify which dietary advice people

	find confusing. It is important that yo remain anonymous. If you don't kno Thank you for your time.	•			
	Section 1: The first few items are a	bout what ad	vice you thinl	k experts are	giving us.
1.	Do health experts recommend that pof the following foods? (tick one box		be eating mo	re, the same	amount, or less
Vege Fatty Proc Who	l and drinks with added sugar etables of foods essed red meat legrains of foods	More ✓ □ ✓ □ ✓ □ ✓ □ ✓	Same	Less	Not Sure
2.	How many servings of fruit and vege minimum? (One serving could be, fo (tick one)		•		
2 3 4 5 or Not s	more sure				
3.	Which of these types of fats do expe (tick one box per food)	erts recommer	nd that people	should eat le	ess of?
Tran	nturated fats s fats rated fats	Eat less □ ✓	Not eat less ✓ □	Not sure	
4.	Which type of dairy foods do experts	s say people sl	nould drink? (tick one)	
Redu skim Mixt	rat (e.g. full fat milk) uced fat (e.g. skimmed and semi- med milk) ure of full fat and reduced fat her, dairy foods should be avoided sure	□ ✓ □			

Not sure

5.	How many times per week do experts rec mackerel)? (tick one)	ommend that people eat oily fish (e.g. salmon and
3-4 t	imes per week imes per week y day sure	
6.	Approximately how many alcoholic drinks number depends on the size and strength	is the maximum recommended per day (The exact of the drink)? (tick one)
2 dri 2 dri	nk each for men and women nks each for men and women nks for men and 1 drink for women nks for men and 2 drinks for women sure	
7.	How many times per week do experts rec	ommend that people eat breakfast? (tick one)
4 tim	nes per week nes per week y day sure	
8.	If a person has two glasses of fruit juice in servings would this count as? (tick one)	a day, how many of their daily fruit and vegetable
Two	serving servings e servings	
9.		ne showing the proportions of food types people y diet), how much of a person's diet should be made
Quar Third Half Not s	I	

Section 2: Experts classify foods into groups. We are interested to see whether people are aware of food groups and the nutrients they contain.				
Do you think these foods and drinks (tick one box per food)	are typically h	igh or low in	added sugar?	
Diet cola drinks Natural yoghurt Ice cream Tomato ketchup Melon	High in added sugar	Low in added sugar	Not sure	
2. Do you think these foods are typ	ically high or l	ow in salt? (t	ick one box per t	food)
Breakfast cereals Frozen vegetables Bread Baked beans Red meat Canned soup	High in salt ✓ □ ✓ ✓	Low in salt	Not Sure	
3. Do you think these foods are typ	ically high or l	ow in fibre? (tick one box per	food)
Oats Bananas White rice Eggs Potatoes with skin Pasta	High in fibre ✓ ✓ □ □ □	Low in fibre	Not Sure	
4. Do you think these foods are a go	ood source of	protein? (tick	one box per fo	od)
	Good source of protein	Not a good source of protein	Not sure	
Poultry Cheese Fruit Baked beans Butter Nuts	<!--</td--><td>□ ✓ ✓</td><td></td><td></td>	□ ✓ ✓		

5. Which of the following	foods do experts count	as starchy foo	ds? (tick one bo	ox per food)
Cheese Pasta Potatoes Nuts Plantains	Starchy food	Not a starchy food ✓ □ □ ✓	Not sure	
6. Which is the main type	of fat present in each of	these foods?	(tick one box p	er food)
Olive oil Butter	Saturated Monounsat fat -urated fat □ ✓ □ □ ✓ □ □ □	Saturated fat □ ✓ □	Cholesterol □ □ □ □ √	Not sure
7. Which of these foods h	as the most trans-fat? (t	ick one)		
Biscuits, cakes and pastries Fish Rapeseed oil Eggs Not sure	✓ □ □ □			
8. The amount of calcium (tick one)	in a glass of whole milk	compared to a	a glass of skimn	ned milk is:
About the same Much higher Much lower Not sure				
9. Which one of the follow (tick one)	ving nutrients has the m	ost calories fo	r the same wei	ght of food?
Sugar Starchy Fibre/roughage Fat Not sure				
10. Compared to minimally	processed foods, proce	ssed foods are	e: (tick one)	
Higher in calories Higher in fibre Lower in salt Not sure	✓ □ □			

	Section 3: The next few it	ems are about choosing fo	ods
1.	If a person wanted to buy a yogurt at t sugar/sweetener? (tick one)	he supermarket, which wou	uld have the least
Natural	fruit yogurt	□ ✓ □	
2.	If a person wanted soup in a restaurant option? (tick one)	t or cafe, which one would	be the lowest fat
	om risotto soup (field mushrooms, porc rice, butter, cream, parsley and cracked		
	outternut and spice soup (carrot , butter cumin, red chillies, coriander seeds and	•	✓
	of chicken soup (British chicken, onions, es, garlic, sage, wheat flour, double crea	• •	
Not sur	е		
3.	Which would be the healthiest and motick one)	ost balanced choice for a ma	nin meal in a restaurant?
Beef, Yo	urkey, mashed potatoes and vegetables orkshire pudding and roast potatoes I chips served with peas and tartar sauc e	e	✓ □ □
4.	Which would be the healthiest and mo	ost balanced sandwich lunch	n? (tick one)
Tuna sa	ndwich + fruit + blueberry muffin + fruit lad sandwich + fruit + low fat yogurt + w d sandwich + crisps + low fat yogurt + w e	vater	□ ✓ □
5.	Which of these foods would be the hea	althiest choice for a puddin	g? (tick one)
Lemon	nd blackberry pie cheesecake cake with cream cheese topping		

6. Which of these combinations of veget vitamins and antioxidants? (tick one)	ables in a salad would give the greatest variety of
Lettuce, green peppers and cabbage Broccoli, carrot and tomatoes Red peppers, tomatoes and lettuce Not sure	
7. If a person wanted to reduce the amou chips, which of the following foods wo	unt of fat in their diet, but didn't want to give up uld be the best choice? (tick one)
Thick cut chips Thin cut chips Crinkle cut chips Not sure	
8. One healthy way to add flavour to food	without adding extra fat or salt is to add: (tick one)
Coconut milk Herbs Soya sauce Not sure	
9. Which of the following cooking method	s requires fat to be added? (tick one)
Grilling Steaming Baking Sautéing Not sure	
10. Traffic lights are often used on nutrition content of a food? (tick one)	n labelling, what would amber mean for the fat
Low fat Medium fat High in fat Not sure	
11. "Light" foods (or Diet foods) are always (tick one)	good options because they are low in calories.
Agree Disagree Not sure	

The following questions are related to food lab	pels:
Product 1 (Sweet biscuit) Each biscuit (9.5g) contains:	Product 2 (Savoury biscuit) Each biscuit (16g) contains:
Calories Sugar Fat Saturates Salt 43 2g 1g 1g 0.1g	Calories Sugar Fat Saturates Salt 1g 3g Trace 0.3g
2% 1 2% 1 3% 1 2%	3% 1% 4% 1% 4%
Typical value (as sold) per 100g: 450 Kcal	Typical value (as sold) per 100g: 412 Kcal
Ingredient list: Oat flakes, sugar, palm oil, fortified wheat flour, whole wheat flour, fructose, malt syrup, salt, raising agents: sodium hydrogen carbonate, ammonium hydrogen carbonate, flavouring	Ingredient list: Wheat Flour, Palm Oil, Corn Syrup, Malt, Salt, Yeast, Leavening Agents (Sodium Bicarbonate, Ammonium Bicarbonate, Sodium Pyrophosphate), Corn Starch, Soy Lecithin, Sodium Metabisulphite (Baking Agent).
12. Looking at products 1 and 2, which one one)	e has the most calories (kcal) per 100 grams (tick
Product 1 Product 2 Both have the same quantity Not sure	✓ □ □
13. Looking at product 1, what are the sou	rces of sugar in the ingredient list? (tick one)
Sugar and malt syrup Sugar, fructose and lecithin Sugar, fructose and malt syrup Not sure	

Section 4: This section is about health problems or diseases related to diet and weight management			
Which of these diseases is related to a lo	ow intake of fibre? (tick one)		
Bowel disorders Anaemia Tooth decay Not sure			
2. Which of these diseases is related to how	v much sugar people eat? (tick one)		
High blood pressure Tooth decay Anaemia Not sure			
3. Which of these diseases is related to how	v much salt (or sodium) people eat? (tick one)		
Hypothyroidism Diabetes High blood pressure Not sure			
4. Which of these options do experts recom (tick one)	nmend to reduce the chances of getting cancer?		
Drinking alcohol regularly Eating less red meat Avoiding additives in food Not sure □			
5. Which of these options do experts recom	nmend to prevent heart disease? (tick one)		
Taking nutritional supplements Eating less oily fish Eating less trans-fats Not sure			
6. Which of these options do experts recom	nmend to prevent diabetes? (tick one)		
Eating less refined foods Drinking more fruit juice Eating more processed meat Not sure	✓ □ □		

7.	Which one of these foods is more likely to	o raise people's blood cholesterol? (tick one)
Eggs Veget Anima Not so		
8.		naving a high Glycaemic Index (Glycaemic Index is a d sugar levels, thus a high Glycaemic Index means a (tick one)
white	egrain cereals bread and vegetables ure	
9.	To maintain a healthy weight people shou	uld cut fat out completely. (tick one)
Agree Disag Not si	ree	
10.	To maintain a healthy weight people show	uld eat a high protein diet. (tick one)
Agree Disag Not si	ree	
11.	Eating bread always causes weight gain. (tick one)
Agree Disag Not S	ree	
12.	Fibre can decrease the chances of gaining	g weight. (tick one)
Agree Disag Not si	ree	

13. Which of these options can help	people to maintai	n a healthy	weight? (answe	er each one)
Not eating while watching TV Reading food labels Taking nutritional supplements Monitoring their eating Monitoring their weight Grazing throughout the day	Yes ✓ ✓ ✓ □ ✓	No □ ✓ □ ✓	Not sure	
14. If someone has a Body Mass Inde (tick one)	ex (BMI) of 23kg/m	າ ² , what woເ	uld their weight	status be?
Underweight Normal weight Overweight Obese Not sure				
15. If someone has a Body Mass Ind (tick one)	lex (BMI) of 31kg/r	m², what wo	ould their weigh	nt status be?
Underweight Normal weight Overweight Obese Not sure				
Look at the body shapes below:				
Apple shape Pear shape				
16. Which of these body shapes incrediscase is a general term that destangina, heart attack, heart failure	scribes a disease o	f the heart	of blood vessels	s, for example,
Apple shape Pear shape Not sure	✓ □ □			

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Section 5: We we	ould like to ask you a few question	s about yourself
1. Are you		
Male Female		
remale		
2. What is your current weight a	pproximately? Please give this in st	ones and pounds or kilograms.
Stones		
Pounds		
Or Kilograms		
3. What is your current height ap	pproximately? Please give this in fee	et and inches or centimetres.
Feet		
Inches		
Or Centimetres		
4. In general, would you say you	r health is	
Poor		
Fair		
Good		
Very good Excellent		
Lacenene	_	
5. Are you		
Single		
Married Living as married		
Separated		
Divorced		
Widowed		
6. Do you have any children?		
No		
1		
2 3		
4		
More than 4		

Final version

7. Do you have any children, under 18 years, living with you?		
Yes		
	_	
No		
8. What best describe your ethnic origin? (tick of	one)	
White British		
White Irish		
Other White background		
Black British		
Black Caribbean		
Black African		
Other Black background		
Indian		
Pakistani		
Bangladeshi		
Chinese		
Other Asian background		
White and Black Caribbean		
White and Black African	П	
White and Asian		
Other mixed background		
Other, please specify:		
9. What is the highest level of education you ha	ve completed?	
Primary school	П	
Secondary school		
O level/ GSCEs		
A levels		
Technical or trade certificate		
Diploma		
Degree		
Post-graduate degree		
root gradate degree		
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10. Do you have any nutrition related qualificat qualification)?	ions (or are you studying to get a nutrition	
Voc		
Yes		
No		
Please specify:		
<u></u>		

Thank you very much for taking part in this survey!

SCORING THE GENERAL NUTRITION KNOWLEDGE QUESTIONNAIRE-REVISED

The General Nutrition Knowledge Questionnaire consists of four independent sections, each assessing a different aspect of nutrition knowledge: Dietary recommendations; Food groups; Healthy Food choices and Diet, disease and weight management. Both validity and reliability studies have been carried out on the questionnaire as a whole and each section independently, thus enabling each one to be used as a separate measure if required.

Section 1 - Dietary Recommendations

Each item carries one point for a correct answer. The subsections of the first and third questions are treated as separate items.

Maximum score = 18.

Section 2 – Food groups

Each item carries one point for a correct answer. In questions with lists of foods, each food is treated as a separate item (questions 1,2,3,4,5,6).

Maximum score =36

Section 3- Healthy Food choices

Each item carries one point for a correct answer.

Maximum score = 13.

Section 4 - Diet, disease and weight management

Each item carries one point for a correct answer. The subsections of the question 13 are treated as separate items.

Maximum score = 21.