

## Visit 2: Eating for Your Brain - Part I

**Objective:** At this visit you have the opportunity to review how to keep a food record, calculate the phenylalanine in food, and complete an activity, “Learning the ‘Real’ Phe Content of Food.”

In This Section:

- How to Record Your Food Intake – Accurately
- Rate Your Own Food Record
- Learning the “Real” Phe Content of Food
- Reading Labels

At This Visit:

- Nutrition assessment- bring your 3 day food record to clinic
- Physical assessment- a brief visit with PKU doctor
- Review how to keep a food record accurately, calculate phenylalanine
- Rate your food record
- Learning the “Real” Phe Content of Food
- Review label reading
- Confirm next visit

Who is involved:

- **You**
- Your support team:
  - Your parents
  - PKU clinic physician
  - PKU clinic nutritionist



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# How To Record Your Food Intake—Accurately



It is important to keep a record of the food you eat and the formula you drink. It is also important to keep these records carefully and accurately. Why??

- Carefully kept records help your nutritionist monitor how your blood phe levels change with different amounts of phe from food. The information from food records is used to make formula changes and change your phe from food prescription.
- The information from food records helps your nutritionist to make sure you are getting the best, most nutritious foods possible.
- Finally, food records are an important way for you to learn about the phe in foods and how phe affects your body and blood phe level.

So, what information is important, anyway?

## **DATE**

List the date of your food record. Clearly separate each day.

## **AMOUNT**

Write down the amount of food that you ate...in grams, cups, ounces, tablespoons, teaspoons... Include the size (for example, a large banana or 2 small oranges).

## **TYPE**

Write down *exactly* what type of food you ate—Campbell's tomato soup, frozen green beans, low protein bread from Bread Machine Mix. Was the carrot canned or fresh? Was the candy a lollipop or a cinnamon disk? List the brand name when available.

## **FORMULA**

Include how your formula is made. List the amount of powder, the amount of water, and everything else (2% milk, evaporated milk) that goes into your formula. If you didn't finish all of your formula, write down how much you had.

## **FREE FOODS**

Be sure to record all free foods and the amount of these foods eaten. These protein-free foods still contain energy (calories)—your nutritionist keeps track of your total daily energy intake too.



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Name \_\_\_\_\_

Date \_\_\_\_\_

### RATE YOUR OWN FOOD RECORD

Give yourself one point for each of the following:

I have <b>three</b> days of food records	_____
My food records are clearly written or printed	_____
I have clearly marked each day	_____
My food records are dated	_____
I have recorded how my Phenyl-free is made	_____

For each day of your food record, give yourself one point if you have completed this information.

	Day 1	Day 2	Day 3
I recorded how much Phenyl-free I drank	_____	_____	_____
I described the foods I ate. (That is, whenever I needed to I listed brand names and how my food was prepared)	_____	_____	_____
I listed the gram weights of my foods. (That is, whenever it was the BEST MEASURE I used my gram scale to weigh foods)	_____	_____	_____
I listed measurements of my foods. (That is, whenever I needed to I listed diameters and sizes of my foods)	_____	_____	_____
I listed phe values of my foods.	_____	_____	_____
I recorded the free foods that I ate.	_____	_____	_____

I feel that these records are a true recording of what I actually eat. YES = 1 NO = 0 \_\_\_\_\_

Total Points \_\_\_\_\_



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## Learning the “REAL” Phe Content of Foods

### OBJECTIVES:

- Participants will be able to describe methods to estimate the phe content of foods
- Participants will be able to describe why it is important to accurately measure portion sizes
- Participants will be able to identify types of foods for which it is especially important to accurately measure portion sizes

### METHOD:

- For each of the foods, participants will:
  - Estimate the portion size and amount of phe
  - Weigh and measure the food, then calculate the actual amount of phe
  - Compare the estimate to the actual value
- Then, discuss questions on page 3 of the worksheet.
- If time permits, discuss other situations in which it is important to identify a strategy for estimating portion sizes. What type of planning can be done ahead of time (e.g., measuring)? What are some strategies for “surprise situations” (e.g., eating at a friend’s house or a new restaurant)?

### MATERIALS:

Worksheet

Scale

Ruler

Calculator

Low Protein Food List

Selected foods: banana, orange, Russet potato, red potato, diced potatoes (frozen), French fries, potato chips, cereal



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## Learning the “REAL” Phe Content of Foods

### Objective

To improve your knowledge of portion sizes and phe values by comparing sizes and weights of selected foods

### Items needed

gram scale, ruler, selected foods, small paper plates, pencil or pen, calculator, Low Protein Food List

### Directions

For each of the foods on this worksheet:

- Estimate the portion size and amount of phe
- Weigh and measure the food, then calculate the actual amount of phe
- Compare your estimate to the actual values

Then answer the questions on page 3.

### FOOD #1: Banana

	<u>Your Estimation</u>	<u>Actual</u>	<u>Difference</u>
Portion size	x-small   small   medium large   x-large	x-small   small   medium large   x-large	
Weight	_____ grams	_____ grams	_____ grams
Phe	_____ milligrams	_____ milligrams	_____ milligrams


### FOOD #2: Orange

	<u>Your Estimation</u>	<u>Actual</u>	<u>Difference</u>
Portion size	small   medium   large	small   medium   large	
Weight	_____ grams	_____ grams	_____ grams
Phe	_____ milligrams	_____ milligrams	_____ milligrams

### FOOD #3: Potato A

	<u>Your Estimation</u>	<u>Actual</u>	<u>Difference</u>
Portion size	small   medium   large	small   medium   large	
Weight	_____ grams	_____ grams	_____ grams
Phe	_____ milligrams	_____ milligrams	_____ milligrams

### FOOD #4: Potato B

<u>Your Estimation</u>	<u>Actual</u>	<u>Difference</u>
		
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Portion size	small	medium	large	small	medium	large	
Weight	_____	grams		_____	grams		_____ grams
Phe	_____	milligrams		_____	milligrams		_____ milligrams

### FOOD #5: Diced Potatoes

	<u>Your Estimation</u>			<u>Actual</u>			<u>Difference</u>
Portion size	½ cup	1 cup	1½ cup	½ cup	1 cup	1½ cup	
Weight	_____	grams		_____	grams		_____ grams
Phe	_____	milligrams		_____	milligrams		_____ milligrams

### FOOD #6: French Fries

	<u>Your Estimation</u>			<u>Actual</u>			<u>Difference</u>
Portion size*	½ cup	1 cup	1½ cup	½ cup	1 cup	1½ cup	
	small	medium	large	small	medium	large	
Weight	_____	grams		_____	grams		_____ grams
Phe	_____	milligrams		_____	milligrams		_____ milligrams

\*Use 2 ways of estimating portion sizes. (Small, medium and large correspond to McDonald's French fries serving sizes; pick the size that you think is closest to what is on the plate.)

### FOOD #7: Chips

	<u>Your Estimation</u>			<u>Actual</u>			<u>Difference</u>
Portion size*	½ cup	1 cup	1½ cup	½ cup	1 cup	1½ cup	
	lunch pack	1 oz	big grab	lunch pack	1 oz	big grab	
Weight	_____	grams		_____	grams		_____ grams
Phe	_____	milligrams		_____	milligrams		_____ milligrams

\*Use 2 ways of estimating portion sizes

### FOOD #8: Cereal

	<u>Your Estimation</u>			<u>Actual</u>			<u>Difference</u>
Portion size	1 cup	1½ cup	2 cups	1 cup	1½ cup	2 cups	
Weight	_____	grams		_____	grams		_____ grams
Phe	_____	milligrams		_____	milligrams		_____ milligrams



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Brand	Food	Measure	Weight (gm)	Phe (mg)	No. of Exch.	Mg Phe/ Gm Food	Pro. (gm)	Energy (kcal)
	Apples, fresh, sliced	1 cup	110	8	0.5	0.07	0.3	53
	Apples, fresh, whole, medium	1 apple	182	11	0.7	0.06	0.5	95
	Banana, fresh, peeled, medium	1 banana	118	58	3.9	0.49	1.3	105
	Orange, fresh, medium peeled	1 orange	131	28	1.9	0.21	1.2	62
	Orange, fresh, sections or pieces	½ cup	120	25	1.7	0.21	1.1	57
	Potatoes, all colors, baked, diced	¼ cup	41	36	2.4	0.88	0.8	38
	Potatoes, all colors, boiled, diced	¼ cup	39	38	2.5	0.97	0.9	38
	Potatoes, all colors, raw, chopped	½ cup	75	53	3.5	0.71	1.3	52
Ore-Ida	Potatoes, Golden Fries	16 pieces	84	76	5.1	0.90	1.8	140
Ore-Ida	Potatoes, O'Brien	¾ cup	85	59	3.9	0.69	1.4	60
Ore-Ida	Potatoes, Steak Fries	9 pieces	84	84	5.6	1.0	1.9	110
	Potato Chips, Plain or Barbeque	3 chips	5	16	1.1	3.20	0.3	28
Frito-Lay	Tostitos, Restaurant Style	1 ounce	28	95	6.3	3.39	2.0	140
General Mills	Corn Chex Cereal	1 cup	31	103	6.9	3.32	2.1	120
General Mills	Rice Chex Cereal	1 cup	27	90	6.0	3.33	1.7	100
LoProfin	Low Protein Breakfast Cereal Loops	1 cup	28	2	0.1	0.07	0.1	108
McDonald's	French Fries, large order	1 serving	154	200	13.3	1.30	6.0	500
McDonald's	French Fries, medium order	1 serving	117	152	10.1	1.30	4.0	380
McDonald's	French Fries, small order	1 serving	71	92	6.1	1.30	3.0	230

Food	Portion Size	Weight
Apple, raw, with skin	small (2 ¾ inch diameter)	149 g
Apple, raw, with skin	medium (3 inch diameter)	182 g
Apple, raw, with skin	large (3 ½ inch diameter)	223 g
Banana, raw	extra-small (less than 6 inches long)	81 g
Banana, raw	small (6 to 6 7/8 inches long)	101 g
Banana, raw	Medium (7 to 7 7/8 inches long)	118 g
Banana, raw	Large (8 to 8 7/8 inches long)	136 g
Banana, raw	Extra-large (longer than 9 inches)	152 g
Oranges, raw	Small (2 3/8 inch diameter)	96 g
Oranges, raw	Medium (2 5/8 inch diameter)	131 g
Oranges, raw	Large (3 1/16 inch diameter)	184 g
Potatoes	Small (1 ¾ to 2 ¼ inch diameter)	170 g
Potatoes	Medium (2 ¼ to 3 ¼ inch diameter)	213 g
Potatoes	Large (3 to 4 ¼ inch diameter)	369 g

Data from USDA National Nutrient Database for Standard Reference; <http://ndb.nal.usda.gov/ndb/foods/list>



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For which of the foods was your estimation MOST accurate? \_\_\_\_\_

For which of the foods was your estimation LEAST accurate? \_\_\_\_\_

What was the difference between your estimation and the actual amount of phe? \_\_\_\_\_

Did you over-estimate or under-estimate? \_\_\_\_\_

For which foods do you think it is most important to be accurate in estimating portion sizes? \_\_\_\_\_

Why? \_\_\_\_\_

**What would you do if...**

? You are at McDonald's with some friends and know that you have 100 mg phe from food left. What do you order? \_\_\_\_\_

? You are going to go out to eat with your family. You've saved up 150 mg—enough to order French fries, and you're excited because the restaurant serves big steak fries. You only know how much phe is in a serving of small French fries. How will you know how many fries to eat? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

? You are visiting your Auntie Annie's apple farm, and she offers you a GIGANTIC apple. It looks delicious, but you aren't sure how much phe to record on your food record. What do you do? \_\_\_\_\_  
\_\_\_\_\_

? Last month at clinic, the nutritionist asked you how much cereal you ate for breakfast. Your reply was, "a bowl, but I don't know how many cups or grams it was." You want to have an answer for her this month. How do you find out how much cereal you've eaten? \_\_\_\_\_  
\_\_\_\_\_



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## Reading Labels

Some people think it's fun . . . Some people think it's boring . . . What is it?  
Label Reading! Label reading is a valuable skill to learn, because **it is the only way you can be sure of exactly what you are eating.** Take this short "quiz." The answers are on the next few pages.

1. If the label says the product contains "0" grams protein, is it actually a free food?  
☐ YES                      ☐ NO
2. On average, 1 gram of protein contains how many milligrams of phe?  
☐ 5 mg                      ☐ 25 mg                      ☐ 50 mg                      ☐ 100 mg
3. The serving size listed on the label is always an entire package of food.  
☐ TRUE                      ☐ FALSE
4. Check the ingredients which contain phe:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Agar              | <input type="checkbox"/> Autolyzed yeast   | <input type="checkbox"/> BHA and BHT          |
| <input type="checkbox"/> Calcium caseinate | <input type="checkbox"/> Calcium carbonate | <input type="checkbox"/> Carob                |
| <input type="checkbox"/> Citric acid       | <input type="checkbox"/> Cracker meal      | <input type="checkbox"/> Dry whey             |
| <input type="checkbox"/> Gelatin           | <input type="checkbox"/> Glycerine         | <input type="checkbox"/> Malt                 |
| <input type="checkbox"/> Mannitol          | <input type="checkbox"/> Methylcellulose   | <input type="checkbox"/> Monosodium glutamate |
| <input type="checkbox"/> Nonfat dry milk   | <input type="checkbox"/> Sodium caseinate  | <input type="checkbox"/> Soy protein isolate  |
| <input type="checkbox"/> Turmeric          | <input type="checkbox"/> Whey solids       | <input type="checkbox"/> Xanthan gum          |

5. Look at the food label and ingredient list below. Circle the ingredients that have phe.  
 How many milligrams of phe does this food have? \_\_\_\_\_  
 What do you think this label is describing? \_\_\_\_\_

Nutrition Facts		
Serving Size 1 bar (34g)		
Servings Per Container 6		
<hr/>		
Amount Per Serving		
<b>Calories</b> 130	<b>Calories from Fat</b> 20	
	<b>% Daily Value *</b>	
<b>Total Fat</b> 2.5g		<b>4%</b>
Saturated Fat 1g		<b>5%</b>
<b>Cholesterol</b> 0mg		<b>0%</b>
<b>Sodium</b> 70mg		<b>3%</b>
<b>Total Carbohydrate</b> 27g		<b>9%</b>
Dietary Fiber 3g		<b>12%</b>
Sugars 13g		
<b>Protein</b> 1g		
<hr/>		
Vitamin A 0%	Vitamin C 0%	
Calcium 2%	Iron 8 %	

### INGREDIENTS:

RICE FLOUR, HIGH FRUCTOSE  
 CORN SYRUP, ROLLED OATS,  
 ROLLED BARLEY, RICE BRAN,  
 SUGAR, MALT, CORN SYRUP,  
 SUGAR, PARTIALLY HYDROGEN-  
 ATED VEGETABLE OIL, APPLES,  
 FIGS, DATES, PLUMS, CORN BRAN,  
 NATURAL FLAVORS, ACACIA GUM,  
 BARLEY, WHEY, BEET JUICE  
 COLOR, DRIED STRAWBERRIES,  
 GUAR GUM, FRUIT PECTIN, NONFAT  
 MILK, NONFAT YOGURT (WHEY,  
 NON- FAT MILK CULTURES), CITRIC  
 ACID, LETHICIN, GLYCERINE, COLOR,  
 DRIED RASPBERRIES, DRIED  
 CRANBERRIES.



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## Phenylalanine-Containing Ingredients

(Foods with these ingredients are not “free.”)

autolyzed yeast	chicken extract	nonfat dry milk
barley, malt, or rice flour	cracker meal	sodium caseinate
beef extract	cracked wheat	soy protein isolate
beef fat	dried whey	vegetable protein
carob	dry yeast	wheat gluten or bran
casein	gelatin	whey or whey solids
calcium caseinate	hydrolyzed vegetable	yeast extract

## Phenylalanine-Free Ingredients

(Foods with these ingredients are “free,”  
if the other ingredients on the food label are “free.”)

acetylated monoglycerides	glycerol monostearate	resinous glaze
adipic acid	guar bean gum	riboflavin hydrochloride
agar	hydrogenated oils	sodium acid pyrophosphate
algin or alginate	(ex. cottonseed, soy)	sodium alginate
alpha-tocopherol	invert sugar	sodium aluminum phosphate
artificial color or flavor	lactic acid	sodium ascorbate
ascorbate or ascorbic acid	lactose	sodium benzoate
BHA and BHT	lecithin	sodium bisulfite
calcium carbonate	locust bean gum	sodium carbonate
calcium propionate	malic acid	sodium citrate
calcium steryl-2-lactylate	maltodextrins	sodium metaphosphate
caramel color	mannitol	sodium phosphate
carotene	methylcellulose	sodium propionate
carrageenan	modified food starch	sodium silico aluminate
cellulose gum or gel	mono and diglycerides	sodium triphosphate
citric acid	mono calcium phosphate	sorbitol or sorbitan
cyteine hydrochloride	monostearate	THBQ
dextrose	natural flavors	thiamine mononitrate
disodium guanlyate	niacin/niacin hydrochloride	titanium dioxide
disodium inosinate	partially hydrogenated	tocopherol
disodium phosphate	vegetable shortening	tricalcium phosphate
EDTA	pectin	tumeric
ferric orthophosphate	polysorbate 60	vegetable fat, gum or colors
ferrous sulfate	potassium citrate/carbonate	vitamin A palmitate
folic acid	propylene glycol	vitamin B6 hydrochloride
fumaric acid	pyridoxine hydrochloride	xanthan gum
glycerine	reduced iron	xylitol



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## READING LABELS: ANSWERS

**Question 1:** If the label says the product contains 0 grams protein, is it actually a free food?      ☐ YES      ☒ NO

The fact is, 0 may be a rounded-off figure, and the item may contain *nearly 0.5 to 0.9 grams* of protein per serving, a significant source of phe. By carefully reading the food label and knowing which ingredients contain phe, you can learn to identify foods that are truly “free.” Remember, while the food label will include information about the protein content of food, it will not include specific information regarding phenylalanine.

**Question 2:** On average, 1 gram of protein contains how many milligrams of phe?  
☐ 5 mg    ☐ 25 mg    ☒ 50 mg    ☐ 100 mg

On average, **1 gram of protein contains 50 mg phe.** This means that a food label that reads 0 grams of protein could actually contain 25-50 mg phe per serving!

⇒ If a food label said the food contained 1 gram of protein per serving, how much phe would you estimate? \_\_\_\_\_

**Question 3:** The serving size listed on the label is always an entire package of food.  
☐ TRUE    ☒ FALSE

**Don't forget to think about serving sizes!** The amount you eat is not always the same as what the food label will call a “serving size.” For example, 1 serving of soda is 8 ounces, but most people drink an entire can of soda, which is 12 ounces.

⇒ How many 8 ounce servings would be in a 24 ounce soda? \_\_\_\_\_



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**Question 4:** Check the ingredients, which contain phe:

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Agar                         | <input checked="" type="checkbox"/> Autolyzed yeast  | <input type="checkbox"/> BHA and BHT                    |
| <input checked="" type="checkbox"/> Calcium caseinate | <input type="checkbox"/> Calcium carbonate           | <input checked="" type="checkbox"/> Carob               |
| <input type="checkbox"/> Citric acid                  | <input checked="" type="checkbox"/> Cracker meal     | <input checked="" type="checkbox"/> Dry whey            |
| <input checked="" type="checkbox"/> Gelatin           | <input type="checkbox"/> Glycerine                   | <input checked="" type="checkbox"/> Malt                |
| <input type="checkbox"/> Mannitol                     | <input type="checkbox"/> Methylcellulose             | <input type="checkbox"/> Monosodium glutamate           |
| <input checked="" type="checkbox"/> Nonfat dry milk   | <input checked="" type="checkbox"/> Sodium caseinate | <input checked="" type="checkbox"/> Soy protein isolate |
| <input type="checkbox"/> Tumeric                      | <input checked="" type="checkbox"/> Whey solids      | <input type="checkbox"/> Xanthan gum                    |

There are many ingredients added to prepared foods, including vitamins and chemicals that act as thickeners, emulsifiers, stabilizers, and color maintainers. Use the next page as a reference to check unfamiliar ingredients. Add to it when you come across a new ingredient. (Be sure to check with your nutritionist first!)

5. Look at the food label and ingredient list below. Circle or underline the ingredients that have phe.

How many milligrams of phe does this food have? 50 mg x 1 gram = about 50 mg  
 What do you think this label is describing? Fibar Low-Fat Snack Bars

Nutrition Facts		
Serving Size 1 bar (34g)		
Servings Per Container 6		
Amount Per Serving		
<b>Calories</b> 130	<b>Calories from Fat</b> 20	
	<b>% Daily Value *</b>	
<b>Total Fat</b> 2.5g		<b>4%</b>
Saturated Fat 1g		<b>5%</b>
<b>Cholesterol</b> 0mg		<b>0%</b>
<b>Sodium</b> 70mg		<b>3%</b>
<b>Total Carbohydrate</b> 27g		<b>9%</b>
Dietary Fiber 3g		<b>12%</b>
Sugars 13g		
<b>Protein</b> 1g		
<hr/>		
Vitamin A 0%	Vitamin C 0%	
Calcium 2%	Iron 8 %	

**INGREDIENTS:**

RICE FLOUR, HIGH FRUCTOSE  
CORN SYRUP, ROLLED OATS,  
ROLLED BARLEY, RICE BRAN,  
SUGAR, MALT, CORN SYRUP,  
SUGAR, PARTIALLY HYDROGEN-  
ATED VEGETABLE OIL, APPLES,  
FIGS, DATES, PLUMS, CORN BRAN,  
NATURAL FLAVORS, ACACIA GUM,  
BARLEY, WHEY, BEET JUICE  
COLOR, DRIED STRAWBERRIES,  
GUAR GUM, FRUIT PECTIN, NONFAT  
MILK, NONFAT YOGURT (WHEY,  
NON- FAT MILK CULTURES), CITRIC  
ACID, LETHICIN, GLYCERINE, COLOR,  
DRIED RASPBERRIES, DRIED  
CRANBERRIES.



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## Assessment of PKU Adolescent Transition Curriculum

### Session 2.

Objective: At this visit you will have the opportunity to review how to keep a food record, calculate phenylalanine in food, and complete and activity 'Learning the 'Real' Phe Content of Food.

Post Session Objective: Each participant will be able to explain how to keep a food record to a parent or friend, have completed the calculate phenylalanine in food and 'Learning the 'Real' Phe Content of Food activities.

I. Please tell us three things that you have learned during this visit

1)

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2)

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3)

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II. What is the most important part of keeping and accurate food record?

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