# UMHB EXSS HUMAN PERFORMANCE LABORATORY DIETARY RESTRICTIONS FOR LACTOSE CHALLENGE TESTING

<u>Directions:</u> In addition to the instructions below for the 24- and 12-hour period prior to Laboratory and At-Home Lactose Challenge Testing, maintain your current lifestyle, including your present dietary practices and activity level.

#### Lactose Breath Hydrogen Test

- Please follow the below instruction for the best possible results from this test.
- If you have any questions about preparing for the Laboratory or At-Home Lactose Challenge Tests, please contact Dr Chris Lockwood at <a href="Clockwood@umhb.edu">CLockwood@umhb.edu</a> or by calling 1-254-295-5036.
- If you have diabetes, ask your primary care physician for diet and medication instructions.

#### PROCEDURE DESCRIPTION

#### What is a lactose breath hydrogen test?

This test can determine if you have a problem digesting lactose products (i.e. milk, cheese, ice cream, etc.). Symptoms of lactose intolerance include diarrhea, gas, cramping, and bloating. When lactose is combined with the normal bacteria in the intestine, hydrogen gas is expired as you breathe. You will be asked to breathe into a breath collection device and your breath will be collected and analyzed.

#### What are the possible complications?

This test is very safe. You may feel minor discomfort from diarrhea, gas, cramping or bloating in response to the orally ingested lactose sugar you will consume during each test.

#### What should I expect during my test?

For Laboratory Testing: First, a baseline breath sample will be obtained by breathing into the device. Then you will drink a lactose solution. After drinking the solution, you will wait 1 hour between each sample. Every hour for a 3-hour period, you will breathe into the device. You will collect a total of 4 samples. After the final breath collection, you will be asked to rate your stomach and digestive comfort by completing a Gastrointestinal Symptoms Questionnaire.

<u>For At-Home Testing</u>: You will drink a lactose solution. Three (3) hours after drinking the solution, you will rate your stomach and digestive comfort by completing a Gastrointestinal Symptoms Questionnaire.

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#### **PREPARATION**

Avoid alcohol consumption during the 7-day Treatment Phase and the 24 hours prior to each of the Laboratory and At-Home Lactose Challenge Tests.

#### 2 weeks prior to the test:

- Antibiotics must be completed 2 weeks prior to this test.
- No colonoscopies or barium procedures 2 weeks prior to the test.
- Discontinue probiotic supplement use within 2 weeks prior to this test.

#### 24 hours before the test:

- Avoid slowly digesting foods and high fiber foods (examples: beans, vegetables, bran, coarse breads).
- Please see the "Diet for Breath Tests" recommendations on the following pages for additional suggestions of foods to eat and foods to avoid.

#### 12 hours before the test:

- Do not have anything to eat 12 hours before your exam. You may only have water before the test.
- <u>Suggestions for last meal prior to 12-hour fast</u>. Baked or broiled chicken or turkey (salt and pepper only), baked or broiled fish (salt and pepper only), plain steamed white rice, eggs, clear chicken or beef broth.

#### Day of the test:

- DO NOT smoke for at least 3/4 hour prior to the test or any time during the test and avoid exposure to second hand smoke.
- DO NOT sleep, or exercise vigorously for at least 1/2- hour before or any time during the test.
- Be sure the medical staff is aware of any recent antibiotic therapy or runny diarrhea since it can affect the test.

### UMHB EXSS HUMAN PERFORMANCE LABORATORY

### DIETARY RESTRICTIONS FOR LACTOSE CHALLENGE TESTING

FOOD CATEGORIES	RECOMMENDED FOODS	FOODS TO AVOID
Breads, Cereal, Rice	White bread, rolls, biscuits and croissants; melba toast	Breads or rolls with nuts, seeds or fruit
and Pasta	Waffles, French toast, pancakes	Whole wheat, pumpernickel, rye breads, and cornbread
	White rice, plain crackers, Saltines	Potatoes, brown or wild rice, buckwheat (kasha)
	Cooked cereals - Farina; Cream of Rice	
	Cold Cereals - Puffed Rice, Rice Krispies, Corn Flakes,	
	and Special K	
Vegetables	NONE	Vegetable juices
		Alfalfa sprouts, Beets, Green/yellow beans
		Carrots, Celery, Cucumber
		Eggplant, Lettuce, Mushrooms
		Green/red peppers
		Squash, Zucchini
		Broccoli, Cauliflower, Brussels sprouts, Cabbage, Kale,
		Swiss chard, Beans, Lentils, Corn
Fruits	NONE	Any raw or dried fruit
		All berries, figs, dates, raisins and prunes
		Fruit juices and prune juice
		Apple sauce, Apples, pears, oranges
		Apricots, Bananas, Cantaloupe, honeydew Watermelon
		Canned fruits, Grapes, Peaches
Milk/Dairy	NONE	Milk,
		Cheese, Butter
		Ice cream, Yogurt
Meats and other	Baked or broiled chicken, turkey, or fish	Tough, fibrous meats with gristle
Protein	Eggs	Beans, peas and lentils
	Peanut butter without nuts	Peanut butter with nuts
		Tofu
Fats, Snacks, Sweets,		Nuts, seeds, and coconut
Condiments &	Chicken or beef broth	Jam, marmalade, and preserves
Beverages		Pickles, olives, relish, and horseradish
	Plain cakes and cookies	All desserts containing nuts, seeds, dried fruit, coconut,
		or made from
		whole grains or bran
	Pretzels	Candy made with nuts or seeds
		Popcorn
		Crackers and snack chips made with whole grains or
		bran
		Margarine, butter, oils, mayonnaise, sour cream, and
		salad dressing
		Plain gravies
		Clear jelly, honey, and syrup Carbonated drinks
		Puddings, custard, sherbet,
		Ketchup, mustard, ground spices
		High fructose corn syrup or other products that contain
		corn

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