MILK-FREE DIET

When you have an allergy to milk, your immune system identifies milk as an allergen and creates antibodies, known as IgE, to guard against the allergen. Allergic people react to one or more of three milk components: protein, fats, and carbohydrates. These antibodies attach themselves to mast cells, which are located throughout the body. Each time you drink milk or eat products containing milk, the milk proteins attach themselves to the IgE antibodies, which trigger the mast cells to explode and release massive amounts of histamines and other chemicals. These chemicals cause the symptoms of an allergic reaction, which may include hives, swelling of the tongue and throat, difficulty breathing, abdominal cramping, vomiting, diarrhea, and/or dangerously low blood pressure. One should keep in mind that there can be a lag time between drinking milk and feeling ill.

When you have an intolerance to milk or milk containing products known as lactose deficiency people cannot digest the main carbohydrate (or sugar) in milk and dairy foods. Normally, fingerlike projections along the intestinal wall, called villi, secrete lactase, an enzyme specifically designed to digest lactose. But lactose-intolerant people produce little or no lactase. Milk passes through undigested, which may cause symptoms such as abdominal discomfort and or pain, bloating, gas pains and often diarrhea.

Until recently, milk allergy and lactose intolerance were regarded as totally separate problems. If you had both, it was considered a coincidence. Now, some doctors are convinced that, in many people lactase deficiency actually develops as the result of an allergic reaction to either milk or some other food. That's because food allergy usually causes intestinal inflammation, which mows down the villi and creates lactose intolerance. Doctors believe that 95 percent of the people who experience stomach distress after drinking milk have lactose intolerance secondary to an allergy of some kind.

WHAT ABOUT CALCIUM?

Milk and dairy foods are a primary source of calcium, a mineral that is important to good health. People who absolutely cannot consume milk and or dairy foods should watch their calcium intake, especially if pregnant or nursing. Other food sources significant in quantities of calcium include green vegetables (i.e. broccoli, spinach collard and mustard greens), sardines, shellfish, turnips, kale, dried beans, seeds (i.e. sesame), nuts (i.e. brazil and whole almonds), dried herbs and soy. Tums are also a source of calcium. You can also purchase foods fortified with calcium such as orange juice and margarine.

TREATMENT

Treatment for a food allergy is to strictly avoid the offending food. Even tiny amounts of exposure can cause severe reactions.

To prevent a potentially life-threatening allergic reaction, you must make every effort to not consume or come in physical contact with milk, milk products or ingredients that contain milk proteins.

Milk is commonly used in processed foods, a milk avoidance diet involves careful label reading.

COOKING TIPS

Cooking without casein is more challenging that cooking with it, but not impossible. Here are a few cooking tips for substituting ingredients and modifying recipes.

INGREDIENT SUBSTITUTIONS

- For butter substitute Fleischmann's unsalted margarine or Crisco. In baking, you can also substitute lard, which produces excellent baked results.
- For melted butter substitute oil or melted margarine.
- For milk used simply as a liquid, substitute water or Rice Dream. If you are baking, fruit juice can be added. Reduce the amount of sugar that the recipe calls for.
- For cream, try Farm Rich, available in the refrigerator section of many grocery stores.
- For milk used as a thickener, substitute pureed tofu. Be sure to puree the tofu completely.
- If you need to make a French-style roux (which calls for butter and flour) use margarine and any other liquid instead. You can thicken soups lightly this way, which permits you to make "cream" recipes without the cream. A Cajun style roux uses oil and flour, and is also an excellent thickener for liquids.
- For condensed or evaporated milk use Jello cookable pudding mix.

MAKING A MILK-SAFE KITCHEN

In some families with conflicting diets, you may need to have milk-full as well as milk-free foods on hand. Color-coding is the key to safety. Depending upon the severity of the allergy in your family, you may wish to keep separate "milk" and "no-milk" cooking utensils flatware and so forth. If you do, make sure that you have one style of dish, ectc, for milk and a different style for milk-free items. Place a sticker on the drawer or cupboard where these utensils are stored, with one consistent color for items containing/used for milk, and another color for everything else. You can use the same sticker system for packages of processed foods and for leftovers stored in the fridge or freezer. As you unload your groceries, add a sticker to the box so that even young children will know what they can and cannot eat.

It may not be necessary to separate plates and utensils in your home. However, certain items used in cooking, ones that are hard to clean thoroughly, may benefit from having milk-full and milk-free versions, kept in separate drawers. If your allergy is severe, you may also wish to have separate kitchen towels, sponges and pots/pans, and to wash them separately.

RECOMMENDED FOODS

Food Group Recommended Foods

Meat and other Fresh or frozen lean meats and poultry

Protein foods Fresh or frozen fish

Fresh eggs

Peanut butter and tree nut butters

Plain, unflavored, unseasoned dry or canned

Legumes, nuts, and seeds Plain, unflavored tofu

Grains Bread, pasta, and cereal products, unless they are

Prepared with ingredients that contain milk

Plain rice

Pretzels and cracker, unless they are prepared

with ingredients that contain milk

Vegetables Plain, unflavored, and unseasoned fresh, froze, or

canned vegetables

100%

Fruits Fresh, frozen, dried, or canned fruits, unless they

are prepared with ingredients that contain milk

100% fruit juices

Fats and oils Margarine and vegetable oils

Nuts and seeds

Salad dressings with allowed ingredients

Avacado

Meat, poultry, fish

DRY BEANS, EGGS, AND NUTS

All unless they are prepared with ingredients

THAT CONTAIN LACTOSE

Note – To know whether a food is made with ingredients that contain lactose:

• Check ingredients lists. Avoid foods

- Made with butter, cream, milk, mild
- Solids, or whey
- Also avoid products when the ingredients

list states. "May contain milk"

Grains All, unless they are prepared with ingredients that

contain lactose

RECOMMENDED FOODS (CONTINUED)

Food Group Recommended Foods

Fruits and vegetables All, unless they are prepared with

Ingredients that contain lactose

Fats and oils Vegetable oils, oils from nuts and seeds

Desserts Fruit ices, sorbet, and gelatin

Beverages Coffee, tea, vitamite nondairy beverage

Other All spices and herbs

Note: Milk contributes riboflavin, pantothenic acid, vitamin A, vitamin D, phosphorus, and calcium to the diet. However, you can obtain these nutrients from other foods. Beverages are good sources of calcium, vitamin A, and vitamin D. Sources of riboflavin, pantothenic acid, and phosphorus include lean meats, legumes, nuts and whole or enriched grain products.

FOODS NOT RECOMMENDED

Food Group Foods Not Recommended

Milk and dairy foods Avoid all milk and dairy foods except

Those listed on the recommended food chart

Meat, poultry, fish, dryAny prepared with ingredients that contain

Beans, eggs, and nuts lactose

Grains, vegetables and fruits

Any prepared with ingredients that contain

Lactose

Fats and oils Butter, margarine and cream cheese

Desserts and beveragesAny prepared with ingredients that contain

Lactose

Note: Avoid all foods made with ingredients that contain lactose. To find out whether a food has lactose:

- Check ingredients. Avoid foods made with butter, cream, milk, milk solids, or whey
- Also avoid products when the ingredients list states, "may contain milk."

2 - SAMPLE MILK FREE MENUS

Breakfast 1 cup oatmeal with slivered almonds, dried apricots, and brown sugar

½ cup lactose-free milk

34 cup calcium-fortified orange juice

Snack Small banana

Lunch Tossed salad with mixed vegetables

2 tablespoons vinegar and oil salad dressing

3 ounces salmon

1 whole grain roll with a thin spread of hummus

1 pear

Snack 1 cup trail mix with toasted oat cereal, nuts, and raisins

Dinner 2 chicken fajitas with onions and peppers, sliced chicken breast, and salsa

in a flour or corn tortilla

½ cup rice mixed with ½ cup pinto beans

Snack 1 slice whole grain bread

1 tablespoon peanut butter

Breakfast Eggs (any style fry in oil not butter with bacon (not sausage)

Calcium enriched orange juice, black, tea or coffee

Cheerios dry or with juice added

Lunch Sliced meat (such as roast beef or turkey breast, no processed meats unless

marked Kosher on sourdough bread with real mayonnaise or mustard.

Add lettuce and mango chutney for flavor.

Salad made with Starkist tuna packed in water. Add pickle relish and real Mayonnaise. Serve plain or on sourdough bread. Peanut butter and jelly

on sourdough bread.

Dinner Baked fish with honey mustard sauce

Lambchops, broiled and served with mint jelly

Steamed vegetables served plain or with home-made vinaigrette

Roasted or baked potatoes

Snacks Sorbet (not sherbet) with fruit or Nesquick chocolate syrup

Desserts Fruit (fresh or canned)

Minute maid calcium enriched juice boxes