

## Low Tyramine Headache Diet\*

Tyramine is produced in foods from the natural breakdown of the amino acid tyrosine. Tyramine is not added to food. Tyramine levels increase in foods when they are aged, fermented, stored for long periods of time, or are not fresh.

\*Adapted from the Columbus Hospital & Diamond Headache Clinic Low Tyramine Headache Diet.

Food Group	Allowed	Use With Caution	Avoid
Meat, Fish, Poultry, Eggs	Freshly purchased and prepared meats, fish, and poultry  Eggs  Tuna fish, tuna salad (with allowed ingredients)	Bacon*, sausage*, hot dogs*, corned beef*, bologna*, ham*, any luncheon meats with nitrates or nitrites added.  Meat with tenderizer added Caviar	Aged, dried, fermented, salted, smoked, or pickled products. Pepperoni, salami, and liverwurst.  Non-fresh meat or liver, pickled herring
Dairy	Milk: whole, 2% or skim  Cheese: American, cottage, farmer, ricotta, cream cheese, velveeta, fresh mozzarella	Yogurt, buttermilk, sour cream: ½ cup per day  Parmesan* or Romano* as a garnish (2 tsp.) or minor ingredient	Aged cheese: blue, brick, brie, cheddar, Swiss, Roquefort, stilton, provolone, Emmentaler, etc.
Breads, Cereals, Pasta	Commercially prepared yeast  Product leavened with baking powder: biscuits, pancakes, coffee cakes, etc.  Cooked and dry cereals  Pasta: spaghetti, rotini ravioli, (w/allowed ingredients), macaroni, and egg noodles	Homemade yeast leavened breads and coffee cakes  Sourdough breads	Any with a restricted ingredient
Vegetables	Asparagus, string beans, beets, carrots, spinach, pumpkin, tomatoes, squash, zucchini, broccoli, potatoes, onions cooked in food, Chinese pea pods, navy beans, soybeans, any not on restricted list	Raw onion	Snow peas, fava or broad beans, sauerkraut, pickles and olives  Fermented soy products like miso, soy sauce, and teriyaki sauce
Fruits	Apple, applesauce, cherries, apricots, peaches, any not on restricted list	Limit intake to ½ cup per day from each group: Citrus: orange, grapefruit, tangerine, pineapple, lemon and lime  Avocados, banana, figs*, raisins*, dried fruit*, papaya, passion fruit, and red plums	
Nuts and Seeds			All nuts: peanuts, peanut butter, pumpkin seeds, sesame seeds, walnuts, pecans

Food Group	Allowed	Use With Caution	Avoid
Soups	Soups made from allowed ingredients, homemade broths	Canned soups with autolyzed or hydrolyzed yeast*, meat extracts*, or monosodium glutamate*(MSG)	
Beverages	Decaffeinated coffee, fruit juices, club soda, caffeine-free carbonated beverages	Limited caffeinated beverages to no more than 2 servings per day:  Coffee and tea: 1 cup = 1 serving carbonated beverages and hot cocoa or chocolate milk: 12oz = 1 serving  Limit alcoholic beverages to one serving:  4oz Riesling wine, 1.5oz vodka or scotch per day = 1 serving per day (May need to omit if on MAOI)	Alcoholic beverages: Chianti, sherry, burgundy, vermouth, ale, beer, and non-alcoholic fermented beverages. All others not specified in caution column
Desserts & Sweets	Any made with allowed foods and ingredients: sugar, jelly, jam, honey, hard candies, cakes, cookies	Chocolate based products: ice cream (1 cup), pudding (1 cup), cookies (1 average size), cakes (3" cube), and chocolate candies (½oz). (All count as one serving of caffeinated beverage)	Mincemeat pie
Ingredients Listed on Food Labels	Any not listed in the restricted section		MSG* (in large amounts), nitrates and nitrites (found mainly in processed meats), yeast, yeast extracts, brewer's yeast, hydrolyzed or autolyzed yeast, meat extracts, meat tenderizers (papain, bromelain) seasoned salt (containing MSG), soy sauce, teriyaki sauce
Fats, Oils, and Miscellaneous	All cooking oils and fats  White vinegar  Commercial salad dressing with allowed ingredients  All spices not listed in restricted ingredients	Wine, apple, or other fermented vinegars*	

#### Caffeine Content of Selected Beverages

Carbonated beverages 12oz=30–50mg (Regular and sugar-free)	Coffee 6oz=103mg	Decaffeinated coffee 6oz=2mg	Tea 6oz=31-36mg (Instant and 3-minute brew)
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#### General Guidelines

- Each day eat three meals with a snack at night or six small meals spread throughout the day.
- Avoid eating high sugar foods on an empty stomach, when excessively hungry, or in place of a meal.
- All food, especially high protein foods, should be prepared and eaten fresh. Be cautious of leftovers held for more than one or two days at refrigerator temperature. Freeze leftovers that you want to store for more than 2 or 3 days.
- Cigarette and cigar smoke contain a multitude of chemicals that will trigger or aggravate your headache. If you smoke, make quitting a high priority. Enter a smoking cessation program.
- The foods listed in the “CAUTION” column have smaller amounts of Tyramine or other vasoactive compounds. Foods with an \* may contain small amounts of Tyramine. Other foods in the “USE WITH CAUTION” column do not contain Tyramine but are potential headache “triggers”. If you are taking an MAO inhibitor (Monoamine Oxidase Inhibitor) you should test the use of restricted foods in limited amounts.
- Each person may have different sensitivities to certain level of Tyramine or other vasoactive compounds in foods. If you are not on an MAO inhibitor, you should test the use of restricted foods in limited amounts.