Explanation of Low Protein Diet

The low protein diet is divided into 4 categories:

1. Foods not allowed (completely eliminated from diet)
2. Foods allowed in limited quantities, called "limited items"
3. Foods allowed in unlimited quantities (as much as desired)
4. Special formula

1. Foods not allowed

- All Meat and meat products (includes gelatin and bouillon)
- Fish, fish products, and all types of seafood.
- Milk in any form, dairy products and all derivatives (such as eggs, cream, cheese, ice cream, sherbet, yogurt, etc.)
- Legumes such as soybeans, lentils, split peas, lima beans, green peas, any peas or beans (except green beans or wax beans), or any isolated protein derived from these sources such as vegetable protein, soy protein, soy flour, soy sauce, soybean curd (tofu), etc.
- Nuts and nut butters (including coconut and chestnuts)
- Seeds (all including sesame seed paste (Tahini).
- Any commercial product or condiments containing protein unless approved by the nutritionist.

2. Foods allowed in limited quantities

- Corn (including popcorn and corn chips)
- Potatoes (including French fries, potato chips, and yams)
- Rice and rice products
- Breads and baked goods
- Commercial breakfast cereals containing less than 2 grams of protein per cup
- Oranges, orange juice, bananas and plantains

The amount of all limited items and foods containing protein must be strictly controlled. Patients may be allowed 1 to 3 limited items or 0-10 grams of protein daily depending on doctor’s or nutritionists orders. If blood levels cannot be maintained within a satisfactory range the number of limited items is reduced. Portions of all limited items and any food containing protein must be measured. For the correct potion sizes see Portion Sizes for Limited Items
3. Foods allowed in unlimited quantities
   - All vegetables except the ones listed as limited or marked with an asterisk. See **Allowed Vegetables**
   - All fruits except the ones listed as limited. See **Allowed Fruits**
   - Special low protein products such as wheat starch bread, wheat starch, low protein baking mix, and all products made from these items. Sold as low protein foods from specialty companies.
   - All condiments and foods which are free of any food or derivatives of foods which are un-allowed or limited. See **Allowed Condiments** and **Unlimited Foods**
   - All beverages which are free of any food or derivatives of foods which are un-allowed or limited. See **Allowed Beverages**

4. Special Formula or Amino Acid Supplement
   The special products are prescribed by the metabolic nutritionist to supply adequate protein, calories, vitamins, and minerals for normal growth and development.

**ALLOWED FRUITS**

acerola  
aples  
apricots  
**bananas (limited)**  
blackberries  
cherries  
cranberries  
currants  
dates  
figs  
grapes (all varieties)  
grapefruit  
guava  
kiwi fruit  
kumquat  
lemons  
limes  
lychees  
loquat  
mangos  
melons (all varieties)  
nectarines  
**oranges (limited)**  
passion fruit  
paw paw  
papayas  
peaches  
pears  
persimmons  
pineapple  
**plantains (limited)**  
plums (all varieties)  
pomegranate  
prunes  
quinces "emu apple"  
raisins  
raspberries  
rhubarb  
strawberries  
sapodillo  
tangeloes  
tangerines  
watermelon

NOTE: Limited fruits must be counted as limited items when large portions are eaten (see Portion Sizes for Limited Items). These fruits do not have to be counted as limited items, however, when used in small quantities such as in cooking (ex: banana bread), in fruit salad, etc.
ALLOWED VEGETABLES

Vegetables marked with an * when eaten in large quantities, add a significant amount of protein to the day’s intake. Do not eat more than one vegetable marked with an asterisk per meal, and no more than ½ cup max. They may be used freely in small quantities such as vegetable stews and mixed dishes. The number in parentheses is for protein content in ½ cup, cooked except for parsley.

acorn squash
anise
*artichoke (2.43 g)
asparagus
*bamboo shoots (0.92 g)
basella (Indian spinach)
beets
beet greens
*broccoli (1.86 g)
broccoli rabe
*brussel sprouts (1.99 g)
burdock
butternut squash
cabbage
carrots
*cassava = yuca, manioc (1.5g)
*cauliflower (1.14 g)
celery
celeriac (celery roots)
chard
chayote squash
chicory
chinese cabbage (Bok choy)
chives
*collard greens (1.2 g)
coriander (Chinese parsley)
corn (limited)
cucumber
dandelion greens
dasheen (Japanese taro)
eggplant (aubergine)
endive
escarole
*fennel (finocchio, 0.54g)
garlic
ginger root
green beans (string beans)

hearts of palm
hubbard squash
horseradish root
*kale (1.24 g)
kohlrabi
leek
lettuce (all varieties)
*lotus root (0.95 g)
*mushrooms (1.13g, cooked)
mustard greens
okra
olives
onions
*parsley (0.89 g)
parsnips
peppers (red and green)
potatoes (limited)
pumpkin
purslane
radishes
rutabaga
sauerkraut
*salsify (oyster plant, 1.84 g)
scallions
shallots
squash (all varieties)
sorrel (dock, sourgrass)
sweet potato, yams (limited) 2.5g)
tampala leaves
tomatoes
turnips
*turnip greens (0.82 g)
watercress
water chestnuts
wax beans
yautia (melanga)
zucchini
ESTIMATED PORTION SIZES FOR LIMITED ITEMS

Containing 2 grams of protein

1 serving potato =
1 small potato (2 inch diameter)
1/2 large potato (4-3/4 inch X 2-1/2 inch)
1/2 cup mashed potatoes (no milk)
20 potato chips (2 inch diameter) or a 1 - ounce bag
10 thick French fries (1/2 X 1/2 X 2 inch)
20 very thin French fries (McDonald's type – small order)

note: medium = 4 grams and large = 6 grams

1 serving corn =
1 small ear of corn on cob (3" long)
1/2 cup corn
1 1-ounce package Fritos corn chips
1-1/2 tablespoon un popped popcorn (110 kernels = 25.5 g)
1- 1/2 corn tortilla (6 inch diameter)

1 serving rice =
1/2 cup cooked brown or white rice

1 serving cereal =
1 cup allowed ready-to-eat breakfast cereal
1 cup cooked rice cereal

1 serving orange =
1- 1/2 medium orange *
10 ounces orange juice
1 cup orange segments

1 serving banana =
2 small bananas (7-3/4 inch X 1-1/4 inch)
3/4 cup mashed banana
1-1/4 large banana (9-3/4 inch X 1-1/2 inch)

*NOTE: Florida oranges contain less protein than California oranges, therefore serving sizes are based on Florida oranges.

These are estimates, please read the food labels on packaging.
ALLOWED CONDIMENTS/SAUCES

<table>
<thead>
<tr>
<th>Jelly/Jam</th>
<th>Tapioca</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syrup (all types)</td>
<td>Arrowroot</td>
</tr>
<tr>
<td>Catsup (any brand)</td>
<td>Baking powder</td>
</tr>
<tr>
<td>Mustard (any brand)</td>
<td>Baking Soda</td>
</tr>
<tr>
<td>A-1 Steak Sauce</td>
<td>Herbs and spices</td>
</tr>
<tr>
<td>Horseradish</td>
<td>Tomato sauce, tomato paste</td>
</tr>
<tr>
<td>Imitation butter flavoring</td>
<td>Relish</td>
</tr>
<tr>
<td>Flavoring extracts</td>
<td>Margarine</td>
</tr>
<tr>
<td>Oil-based salad dressing</td>
<td>Ready-to-eat frosting</td>
</tr>
<tr>
<td>Progresso pizza sauce</td>
<td>Hunt’s prima salsa spaghetti sauce</td>
</tr>
<tr>
<td>Buitoni marinara spaghetti sauce</td>
<td>Buitoni mushroom spaghetti sauce</td>
</tr>
<tr>
<td>Ragu pizza sauce</td>
<td>Old el Paso taco sauce</td>
</tr>
<tr>
<td>La Victoria green taco sauce</td>
<td></td>
</tr>
<tr>
<td>Jello pudding and pie filling (lemon, vanilla, butterscotch)</td>
<td></td>
</tr>
<tr>
<td>Royal pudding and pie filling (lemon, vanilla, butterscotch and coffee flavors)</td>
<td></td>
</tr>
<tr>
<td>Royal instant pudding and pie filling (lemon, vanilla, butterscotch and coffee flavors)</td>
<td></td>
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</tbody>
</table>
*If instructions call for 2 cups milk, substitute $\frac{3}{4}$ cup rich whip mixed with $\frac{3}{4}$ cup water. Only royal instant pudding is allowed.

ALLOWED BEVERAGES

<table>
<thead>
<tr>
<th>Tang (all flavors)</th>
<th>V-8 cocktail vegetable juice</th>
</tr>
</thead>
<tbody>
<tr>
<td>HiC fruit punches and fruit drinks</td>
<td>Kook-Aid (all flavors)</td>
</tr>
<tr>
<td>Carbonated beverages (ex. Pepsi, Coke, Dr. Pepper, Gingerale, Sprite, etc.)</td>
<td></td>
</tr>
</tbody>
</table>