Head & Neck Cancers Nutrition Guide

Nutritional Tips And Suggestions For Patients During Treatment





Fighting Cancer For Over 40 Years.

Preparing For Treatment

Dealing with cancer is difficult, but adequate nutrition during treatment can significantly improve your treatment experience and outcome.

Predicting how cancer treatment will affect you is difficult because side effects vary from one person to another. Also, there are cases where some people do not experience any side effects and have a normal appetite.

Some cancer treatments promote significant weight loss, weight gain, fatigue and other side effects that can be managed with proper nutrition. Some of the services an oncology dietitian can assist you with include:

- Correcting intake problems
- Monitoring body weight changes
- Providing tube feeding recommendations
- Reviewing nutrition resources
- Identifying oral supplements
- Assisting with healthier eating practices

We invite you to take advantage of the nutritional care services available to you at no charge.

Please feel free to contact your local oncology dietitian to schedule an appointment or to ask a question.

Dietitian: _____ Phone Number: _____

Next Appointment:		at
	(date)	(time)

After your diagnosis, you may still have a lot of unanswered questions. Just realize that this is a journey and you control how you feel along the way. You can play a vital part in your treatment by controlling what you eat. Healthy eating during treatment can help you minimize side effects and help ensure a full recovery.

Things to Think About . . .

- Do you have any current side effects that affect your intake?
- What type of meal patterns do you have now?
- Do you have regular bowel movements?
- How much weight have you lost in the past month?
- Have you noticed any changes in your appetite?
- Do you have any food allergies?
- Are you currently taking any vitamin, mineral or herbal supplements?
- Do you exercise daily?
- Do you consume more than three meals daily from a fast food restaurant?
- Do you eat at least five servings of vegetables and fruit daily?
- Do you drink at least six cups of hydrating fluids daily (water, decaff tea, 100 percent fruit juice, sports drinks)?
- Can someone help prepare meals for you or do you have easy to prepare meals readily available?
- Are your teeth/dentures in good condition?
- What type of mental attitude do you have about treatment and outcome?

Be sure to discuss any of the above issues with your healthcare professional or dietitian before starting treatment.

My Daily Intake List

A dietitian can help determine your estimated calories.

Time	Food or Beverage Consumed	Amount Consumed	Estimated Calories

Foods to Keep on Hand

It is always wise to make a list of healthy foods that can help you feel better. Below are some examples of foods that you can stock up on to prepare for treatment.

MEATS, BEANS AND NUTS

	Kidney and navy beans	Pinto beans	Peanut butter
	Talapia	Salmon	Eggs
	Skinless chicken breast	Lean ground turkey	
	Light tuna	Lean ground beef	
VEGET	ABLES		
	Broccoli	Cauliflower	Carrots
	Green beans	Cabbage	Turnips
	Bell peppers	Peas	Potatoes
	Onions	Spinach	Okra
	Squash	Creamed corn	Sweet potatoes
	Zucchini	Avacado	Olives
BREAD	, CEREALS AND GRAINS		
	Instant rice	Instant grits	Oatmeal
	Cream of wheat	Angel hair pasta	Soft bread
	Soft noodles	Cornbread	Pancakes
	Pita breads		
FRUITS	5		
	Apricots	Bananas	Blueberries
	Cranberry sauce	Cooked pears	Applesauce
	Watermelon	Cooked figs	Рарауа
	Mango	Canned peaches	
DAIRY			
	Milk	Yogurt	Cottage cheese
	Ice cream	Melted cheese	Custard
	Pudding	Milkshakes	Butter
	Sour cream	Buttermilk	Dry milk powder
	Coconut milk		
OTHER	2		
	Oral nutritional suppleme		
	Creamed and broth based soups		
	Sports drinks		

- Sports drinks
- Gelatin
- Non-acidic, non-carbonated beverages
- Olive oil

Powerful Snack Ideas

Bagel, cream cheese, banana and whole milk Cream of wheat, wheat germ and honey Oatmeal, raisins and condensed milk Cheese, butter and toast Peanut butter, jelly and whole milk Fettuccine alfredo, garlic bread and cheese Macaroni and cheese and mixed vegetables Pita bread and tuna or chicken salad Ice cream milkshake and cookies Navy bean soup and crackers Tuna noodle casserole and salad Granola bar, yogurt and fruit Instant breakfast, half & half and ice cream Veggie pizza and extra cheese Cottage cheese and fruit

Sample Menu Plans

Breakfast

Oatmeal, butter, honey Blueberries Scrambled egg Milk

Lunch

Tuna salad mixed with mayonnaise Split pea soup Fruit cocktail Tea

Snack

Cottage cheese Canned peaches Water

Snack

Hummus or bean dip on pita bread (if tolerated) Custard or frozen yogurt Water

Dinner

Stewed chicken with gravy Mashed sweet potato with butter Soft cooked carrots Milk or water

Snack

Peanut butter milkshake Water

Soft Foods That Can Be Consumed for Sore Mouth and Throat

Tender, chopped meats Alfredo sauce over wheat pasta Whole grain pancakes Scrambled and poached eggs Applesauce or baked apple Soft bananas Bran muffins with natural fruit spread Soft whole grain breakfast bars Soft pasta (whole wheat) salads Oatmeal with condensed milk Grits or cream of wheat with butter Deviled eggs Tuna casserole Creamy peanut butter Diced chicken in vegetable soup

Pudding or custard Bean dips or hummus Yogurt with fruit Cottage cheese or cream cheese Creamed or broth based soups Vegetable casseroles Soft cheese cubes Thin vegetable slices and dip Canned peaches or pears Popsicles Non-fat powdered milk mixed in fluid milk Frozen yogurt Fruit milkshakes Milk— whole, almond, soy or coconut Room temperature liquids

Foods That May Need To Be Avoided for Sore Mouth and Throat

Tomatoes and tomato sauces Oranges and orange juice Grapefruit and grapefruit juice Pineapple and pineapple juice Lemonade Vinegar Pickles Chili Salsa Granola Dry toast Hard crust breads Potato chips Pretzels Nuts Coconut Popcorn Raw vegetables Raw apples Alcohol Mouthwashes that contain alcohol Hot foods or liquids

Other Food Lists

CLEAR LIQUID

- Bouillon Cranberry juice Fruit punch Pedialyte® Gelatin Popsicles
- Broth Grape juice Gatorade® Resource Breeze® Honey Caffeine free tea
- Apple juice Flavored water Powerade[®] Enlive® lelly Fruit ice

FULL LIQUID

(Including all clear liquids listed above)

Fruit drinks	Milk	Milkshakes
Smoothies	Vegetable juice	Water
Yogurt	Plain ice cream	Sherbet
Syrup	Ensure Plus [®]	Boost Plus®
Carnation Instant Breakfast [®]		

HIGH FIBER

Bran muffins Bran cereal Oatmeal Shredded wheat Cooked beans Cooked peas Whole wheat bread Vegetable soup Broccoli **Brussels sprouts** Cabbage Corn Spinach Collard greens Potatoes with skins Yams Granola Trail mix Nuts Popcorn

LOW FIBER

Chicken Grits Noodles White rice Mushrooms Angel food cake Ginger snaps Sherbet

HIGH PROTEIN

Meat Milk Yogurt Seeds Beans

- Turkey Eggs Potato without skin Carrots String beans Animal crackers Graham crackers Vanilla wafers
- Chicken/turkey Eggs Cottage cheese Wheat germ Fish

- Sweet potatoes
- Cream of rice Fish White bread Canned fruit Gelatin Custard Saltine cracker Yogurt
- Nuts Tofu Ricotta cheese Nut butters (peanut, almond, cashew)

Mouth Care is Important Now

Oral hygiene is very important during treatment. Proper mouth care can mean the difference between minimal side effects and inflammation with pain. If you have your original teeth, remember to keep them healthy and strong with proper oral care. This includes continuing to brush your teeth, flossing and rinsing your mouth often throughout the day. This will help ensure the prevention of dental cavities that may develop during or after you complete treatment.

Steps for healthy teeth during and post treatment:

- 1. Clean teeth and gums after meals and before sleep with toothbrush or swab, as tolerated
- 2. Rinse mouth regularly with alcohol-free mouthwash or baking soda, salt and water solution (mix 1/2 tablespoon of baking soda and 1/2 teaspoon of salt in 1 quart of room temperature water)
- 3. Clean dentures daily and leave them out while sleeping
- 4. Avoid hot foods, spicy foods, sticky foods, alcohol and smoking.
- 5. Keep your lips moist with recommended salves and lubricants
- 6. Reduce unnecessary consumption of very sweet foods or beverages
- 7. Notify your doctor or nurse of any redness, tenderness or sores in your mouth or on your lips

A Word About Feeding Tubes

Tube Feeding Key Points

- Only provide formula feedings while sitting up and reamin upright for at least 1 hour after feeding
- All liquids that will be infused through the feeding tube must be at room temperature (including formula)
- Administer medications with water flushes before and after each individual medication
- Flush your tube with water at least twice daily with water, even if you can swallow food and liquids by mouth
- Clean around the tube with soap and water daily
- Notify the doctor, nurse or other healthcare provider if you have any of the following symptoms:
 - · Fever, decreased urine or severe mouth dryness
 - · Swelling, redness or drainage from the feeding tube site
 - Coughing, choking, vomiting or difficulty breathing

During Treatment Recommendations

It is very important that you try to provide your body with adequate nutrition to keep your body healthy and strong during treatment.

Try to maintain weight during treatment.

• If you are overweight, do not follow a weight loss diet

Consume small frequent meals.

• Eat six small meals throughout the day

Consume more water and non-caffeine containing beverages.

- Drink at least six to eight cups of fluids to help prevent dehydration
- Reduce or eliminate alcohol-containing beverages

If losing weight, increase intake of foods high in calories and protein.

- Add butter, gravies, or salad dressings to food.
- Try high protein foods like cheese on crackers, deviled eggs, cottage cheese and fruit, custard or peanut butter on apple slices
- Try homemade milkshakes made with ice cream, milk, powdered milk and fruit or try commercial nutritional supplements such Ensure High Protein[®], Boost Plus[®], Glucerna[®] or Carnation Instant Breakfast Sugar-Free[®]

Type of Treatment	Possible Side Effect
Surgery	May reduce digestive function Chewing/swallowing problems Reduced food intake Sensitivity to hot or cold food temperatures Tolerance of thin or thick textured foods Weight loss
Radiation Therapy	
Brain, spinal cord	Nausea Headache Tiredness or fatigue Vomiting
Head or neck region (Tongue, tonsils, voice box, larynx, pharynx, salivary glands, nasal cavity)	Changes in taste Constipation (with routine pain medicine use) Dry mouth Sore mouth/gums Sore throat Poor appetite Trouble swallowing Weight loss
Chest region (Lung, esophagus, breast)	Heartburn Poor appetite Swallowing irritation
Abdominal region (Stomach, pancreas, pelvis, cervix, rectum)	Cramps, bloating, gas Diarrhea Nausea Vomiting
Chemotherapy	Changes in taste Constipation Diarrhea Mouth sores Nausea Sore throat Vomiting Weight gain Weight loss

Coping With Possible Side Effects

SORE THROAT

- Avoid strongly acidic foods/beverages such as orange juice, lemonade, grapefruit and tomatoes
- Avoid rough textured foods such as fried foods, toast, peanuts, popcorn, granola and most raw vegetables and hard fruits
- Avoid strong spices such as Tabasco[®] sauce, chili powder, jalapeno peppers, curry, etc.
- Avoid alcohol and alcohol-containing beverages (includes some commercial mouthwashes)
- Choose foods that can be enjoyed at room temperature, lukewarm or cool such as Jell-O[®], yogurt, casseroles, creamed soups, watermelon, smoothies, popsicles and puddings
- Blend and moisten foods that are dry into soups, gravies and casseroles
- Try gargling with a solution made up of:

1/2 teaspoon salt

- 1/2 teaspoon baking soda
- 1 quart room temperature water

HEARTBURN OR REFLUX

- Wait one hour before or one hour after eating a meal to drink a full beverage
- Do not lie down for at least 30 minutes after a meal
- Avoid eating large meals at one time
- Avoid late evening snacks
- Avoid tobacco and chewing gum
- Consume fat-free foods
- Avoid carbonated beverages, acidic foods, peppermint, jalapeno peppers and strong spices

Coping With Possible Side Effects

CHANGES IN TASTE

- Rinse and gargle with baking soda and salt solution before and after eating or drinking
- Use plastic forks, knives and cups when eating or drinking
- Marinate meats with fruit juices, Italian salad dressings or other marinades
- Consider adding flavored extracts to food to enhance taste

DRY MOUTH OR THICK SALIVA

- Drink more water during the day; keep a glass of water by your bed at night
- Use a humidifier to help keep moisture in the air
- Consume moist foods such as cooked soft vegetables, soups, meats with gravy and smoothies
- Keep your lips moist with lip balms or other moisture agents
- Use alcohol-free mouthwashes and rinse with baking soda/salt/water rinse at least four times daily

LOSS OF APPETITE

- Eat something every two hours
- Keep high calorie/high protein snacks with you at all times
- Drink more beverages that have calories (100 percent fruit juices, milkshakes, creamed soups) if unable to consume solid food
- Consider light exercise or increased movement when not sleeping

DIFFICULTY SWALLOWING

- Try thicker foods such as yogurt, cottage cheese, pureed meats or vegetables, mashed potatoes, cooked cereals and creamed soups
- Eat every two hours and do not skip meals
- Avoid foods such as hard rice, dry bread, tough meats and other dry foods that require chewing
- Speak with your doctor regarding a referral to a swallowing therapist

- Increase intake of water and other hydrating fluids
- Consume foods high in fiber such as bananas, applesauce, oatmeal and soggy high fiber cereals (should not contain nuts or dried fruit)
- Consume more cooked vegetables such as cooked broccoli, cooked beans and creamed corn
- Consume cooked fruit such as stewed apples or stewed pureed prunes
- Try over the counter fiber supplements such as Benefiber® and Metamucil®, or high fiber cereals such as Fiber One®
- If constipation is related to pain medicine use, speak with your nurse regarding constipation protocol

DIARRHEA

- Drink plenty of fluids such as water, ginger ale or sports drinks (Gatorade[®], Powerade[®] or Pedialyte[®])
- Consume foods high in potassium such as baked potatoes, bananas and apricots
- Consume foods low in fiber such as vanilla yogurt, white toast, white rice, cooked string beans and cooked carrots
- Avoid high fiber foods such as raw apples, beans, wheat grains and fried foods

FATIGUE

- Consume high protein snacks between meals
- Drink enough water and hydrating fluids
- Consider light daily exercise

NAUSEA

- Ask the doctor if you should have treatment on an empty stomach or consume a light snack
- Consume small meals composed of food that can be consumed at room temperature such as sandwiches, gelatin and crackers
- Sip a small amount of cool liquids with meals and drink more hydrating fluids between meals
- Avoid fried foods, thick sauces, gravies and high fiber foods

Coping With Possible Side Effects

cont...

VOMITING

- If unable to keep down water, call your doctor to be evaluated for dehydration
- Once vomiting stops, drink clear liquids (broth, gelatin, apple or white grape juice) every two hours for the rest of the day
- Speak with your doctor regarding medications that may help reduce nausea
- Contact the dietitian for a list of foods that should be tolerated

CLEAR LIQUIDS:	Sports drinks
·	Fruit ice
	Bouillon
	Diluted fruit punch
	Resource [®] Breeze

Weak tea Popsicles Ginger ale Cranberry juice Ensure Clear®

GAINING TOO MUCH WEIGHT

- Consume more water and avoid high calorie sodas and large amounts of fruit juice
- Add larger portions of vegetables and reduce the amount of starchy foods (potatoes, rice, etc.) at lunch and dinner
- Eat fresh fruit or a handful of nuts as snacks
- Choose baked fish and turkey at least twice a week and avoid fried foods, heavy sauces, gravies and sweet desserts
- Increase your activity or exercise as advised per your doctor

LOSING TOO MUCH WEIGHT

- Start to eat on a time schedule or every two hours
- Consume foods that are easy to bring with you and pack a lot of calories (pudding, peanut butter, smoothies)
- Consider adding butter, gravies and cheese to foods if tolerated
- Speak with a dietitian about high calorie milkshake recipes or various oral supplements suh as Ensure Plus[®], Boost Plus[®] or Carnation Instant Breakfast[®]
- Try drinking *protein fortified milk* or an *instant breakfast milkshake* with every meal (if tolerated)

Protein Fortified Milk Recipe

- 1 quart whole milk
- 1 cup nonfat instant dry milk

Pour whole milk into bowl and mix while slowly adding instant dry milk until dissolved. (*Provides* 211 calories and 14g protein)

Instant Breakfast Milkshake Recipe

- 1 cup whole milk
- 1 package instant breakfast mix
- 1/4 cup instant nonfat dry milk
- 1 cup ice cream

Place in blender and mix until well blended. (*Provides 640 calories and 24g protein*)

Maintain weight for at least 1 month post treatment Contact the doctor, dietitian or speech therapist if you still have trouble swallowing up to 6 weeks after treatment

Consume more water and non-caffeinated beverages

- Reduce alcohol intake . Men: limit to two drinks per day **Women**: limit to one drink per day
- One Drink Equals . 5 oz of wine 12 oz of beer 1.5 oz of 80-proof liquor

Consume more vegetables and fruits

- Try to consume at least three servings of vegetables daily and two servings of fruit
- Try to include more vegetables that have a lot of fiber such as broccoli, potato skins, carrots, prunes, apples, etc

Consume more fish

Try to consume baked fish high in omega-3 fat (tuna, salmon, mackerel) • and avoid high fat, fried fish

Avoid processed meats

- Processed meat is defined as red meat that has been preserved by smoking, curing, salting or adding other chemical preservatives such as:
 - Sausage - Bacon - Hot dogs - Ham - Bologna
 - Salami - Corned beef
- Luncheon meat

Reduce intake of foods high in salt

- Read food labels and pick foods with less than 20 percent sodium per serving
- Use sodium only when cooking and not at the table
- Use natural herbs and spices to flavor foods in place of salt

Reduce intake of foods high in fat

- Limit intake of junk foods that are processed such as:
 - Cookies - Chips
 - Candy bars - High fat pastries (snack cakes)
 - Cheeseburgers
- Fried foods
- Loaded pizza

With physician approval, you may start a light exercise program

Frequently Asked Questions

Nutrition is a vital part of your treatment that you control. It is very critical that you supply your body with necessary vitamins, minerals and water to help it "build up" before and during treatment.

Do you have any suggestions about the best foods to eat to prepare for treatment?

Before treatment, your body could use additional calories and protein to help maintain your muscles and keep your immune system strong. The first signs that you are not taking in enough calories or protein are usually shown by changes in weight or loss of muscle. You may also notice that you have less energy and become tired more often. If your appetite is poor, you should start by eating small, high calorie/high protein snacks every one to two hours such as cottage cheese and fruit, deviled or boiled eggs, cheese and crackers, milkshakes made with ice cream and fruit, yogurt and flaxseeds or peanut butter and jelly sandwiches. Make sure you sleep no longer than one hour to avoid sleeping during snack time.

I have read that sugar feeds cancer. Should I avoid all sugar in my diet?

Recent studies suggest that eating large amounts of simple sugars can cause an increased risk of developing cancer. These studies also point out that cancer development could possibly be related to elevated insulin levels within the body after consumption of large amounts of processed, sugary foods – not the sugar itself. Avoiding all sugar could be harmful because some fruits, vegetables and grains contain simple sugars as well other helpful nutrients such as fiber and antioxidants. So, in order to prevent major elevations of the circulating amount of insulin in the body, consume more fruits, vegetables, whole grain products, beans, nuts and water. Try to limit or avoid sweetened cereals, soft drinks, pastries and other foods that have a lot of added sugar.

Should I eat organic?

Eating organic foods is a choice. One of the benefits of eating organic foods is reduced personal exposure to pesticides. The down side of some organic produce is increased spoilage, price and availability in certain areas. Currently, there is no good research that small amounts of pesticides found on fruits and vegetables are linked to cancer. Eating a wide variety of fruits and vegetables (organic or not) daily should be the main focus during and after treatment.

Frequently Asked Questions cont...

I am overweight. Should I lose weight before treatment?

Large fluctuations in weight are not recommended during chemotherapy or radiation. However, slow healthy weight loss of no more than one pound per week under the supervision of a doctor or dietitian may be helpful. *After treatment,* a healthy body weight is encouraged.

It would be wise to not lose weight during treatment because of the following:

- The weight you lose may be from muscle, not fat
- Increases fatigue
- Slows healing
- Increases the chance that you will experience side effects
- Makes recovery time longer

Can I take herbal supplements or vitamins during treatment?

Eating adequate amounts of healthy food should be the first priority before and during treatment. Certain herbal and dietary supplements can possibly make you sick, worsen treatment side effects and make cancer treatments more toxic. Supplements that contain higher daily values or additional herbs may cause health problems, interact with other medications or reduce the effectiveness of treatment. Please speak with a doctor or dietitian if you are taking any supplement, herb or vitamin formulation that is not prescribed or monitored by a doctor.

For more information, try these online resources:

- Office of Dietary Supplements (www.ods.od.nih.gov)
- National Center For Complementary and Alternative Medicine (www.nccam.nih.gov)
- Cancer information about herbs, botanicals and other products: Memorial Sloan Kettering Cancer Center (www.mskcc.org/mskcc/html/58481.cfm)
- Dietary supplements: Warnings and safety (www.cfsan.fda.gov/~dms/ds-warn.html)

Overall, what is the best way to plan for treatment?

- Remain positive about your treatment and outcome
- Do not be afraid to ask your healthcare professional questions about treatment
- Start eating more fruits and vegetables and drink more water
- Be sure to have ready-to-eat or easy to prepare foods available
- Be willing to let family and friends help.

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Helpful Resources

Nutrition During Treatment

ONLINE

Eating Hints for Cancer Patients: Before, During and After Treatment – National Cancer Institute (NCI) – www.cancer.gov/cancertopics/eatinghints.com Caring 4 Cancer – www.caring4cancer.com

BOOKS

Eating Well Through Cancer: Easy Recipes and Recommendations During and After Treatment by Holly Clegg.

Betty Crocker's Living with Cancer Cookbook: Easy Recipes and Tips through Treatment and Beyond by Kris Ghosh, Linda Carson, Elyse Cohen.

National Agencies

SUPPORT FOR PEOPLE WITH ORAL AND HEAD AND NECK CANCER (SPOHNC)

(800) 377-0928 www.spohnc.org

NATIONAL INSTITUTE OF DENTAL AND

CRANIOFACIAL RESEARCH (NIH)

(866) 232-4528 www.nidcr.nih.gov

AMERICAN INSTITUTE FOR CANCER RESEARCH

(800) 843-8114 www.aicr.org

AMERICAN CANCER SOCIETY

(800) 227-2345 www.cancer.org

Local Agencies

BATON ROUGE AND GONZALES:

Cancer Services of Greater Baton Rouge (225) 927-1329 www.cancerservices.org

COVINGTON, HAMMOND AND HOUMA:

Cancer Association of Greater New Orleans (800) 624-2039 www.cagno.org

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