



OBJECTIVES

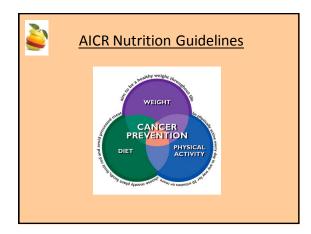
- Understand how to maintain a healthy lifestyle with proper nutrition during treatment
- Determine the need for supplement usage
- Identify and manage the side effects of treatment
- Maintain appropriate lifestyle practices post treatment

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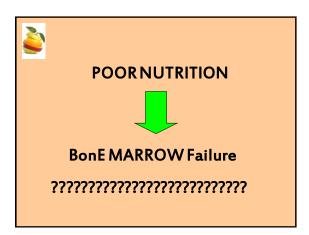
AICR Guidelines

AICR: American Institute for Cancer Research

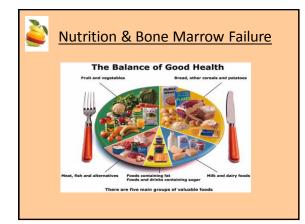
- ✓ Choose mostly plant foods, limit red meat and avoid processed meat
- ✓ Be physically active every day, for 30 minutes or more
- ✓ Aim to be a healthy weight throughout life

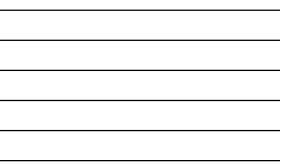












Nutrition and Bone Marrow Failure

AICR Nutrition Recommendations:

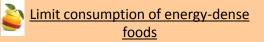
- 1. Be as lean as possible
- 2. Be physically active for at least 30 minutes daily
- 3. Avoid sugary drinks. Limit consumption of energy-dense foods
- 4. Eat more of a variety of vegetables, fruits, whole grains and legumes
- 5. Limit consumption of red meats and processed meats
- 6. Consume alcohol in moderation
- 7. Limit salty foods and foods processed with salt
- 8. Don't use supplements to protect against cancer



Be physically active

- Brisk walk for at least 30 minutes daily, or 2-15 minute walks
- As fitness improves, increase activity to 60 minutes of moderate activity or 30 minutes of vigorous activity daily
- Limit sedentary behaviors, such as sitting watching television for lengthy periods





- Avoid high fat foods
- Avoid sugary drinks: sodas, juices
- Be mindful at the Fast Food Restaurants
- · Limit your choices of processed foods





Eat more vegetables, fruits & legumes

- Low in calories
- High in vitamins and minerals (vitamins A, C, folate, iron)
- Loaded in fiber- fills you up and keep digestive system moving. (25-35 grams daily)
- Fill your plate with 2/3 vegetables, whole grains and/or fruits





Limit consumption of Red Meats

- Fill 1/3 of plate with meat, fish or poultry
- Eat lean red meat- limit to 18 ozs weekly
- Avoid processed meats
 - smoked, cured or salted meats (bacon, salami, bologna, ham, sausage)





• Can lead to certain cancers

Limit intake of salty foods

Limit sodium to 2400 mg daily

Equals 1 teaspoon per day In Addition:



- Avoid processed, cured foods
- Limit canned foods
- Use fresh herbs for marinating and seasoning foods
- Increase intake of fresh vegetables and fruits



Supplements

What is a dietary supplement?

"A product that contains vitamins, minerals, herbs or other botanicals, amino acids, enzymes and/or other ingredients intended to **supplement** the diet. The U.S. FDA has special labeling requirements for dietary supplements and treats them as foods, not drugs."

- National Center for Complimentary and Alternative Medicine



Supplements

Before taking a supplement consider...

- 1. Is my diet restricted of nutrients?
- 2. Am I not eating sufficient amounts at meal time?
- 3. What medications am I taking?
- 4. Talk to my doctor and/or registered dietitian about taking a supplement



Supplement Recommendations

- <u>B vitamins:</u> *B12, B6, folic acid* » Blood cell production
- <u>Calcium:</u> 1200-1500 mg per day » Bone and skeletal structure
- <u>Vitamin D:</u> 600-1000 IU » Maintain skeletal health





Supplements

HERBS ARE SUPPLEMENTS TOO!!

- Green Tea: avoid Green Tea & Velcade
- Avoid herbs that may interact with medication/treatment: St John's Wort, Gingko Biloba, Grapefruit
- Caution with labels that read "immuneenhancing" or immune-stimulating"



<u>Websites</u>

- www.naturaldatabase.com
- http://dietary-supplements.imfo.nih.gov
- www.ods.nih.gov
- <u>www.micromedex.com</u>
- <u>www.consumerlabs.com</u>
- <u>www.nccam.nih.gov</u>
- www.quackwatch.org

Proper Nutrition during Treatment





<u>Fatigue</u>

Zzzzzz ...

- Eat protein and fiber at each meal
- Eat several nutritious snacks during the day
- Plan your meals for the day
- Drink sufficient fluids
- Take a low impact exercise or yoga class
- Keep aware of your body's need to rest
- Push yourself, but not to the point of exhaustion

Taste Changes

- Choose foods that look and smell good
- Marinate foods
- Try tart foods and drinks
- Add extra flavors to foods, such as lemon
- For metallic taste, try eating with a plastic utensils
- Keep mouth clean. Rinse mouth after each meal



<u>Nausea</u>

- Eat easy to digest foods- yogurt, broth, toast
- Eat 5-6 small meals per day
- Sip on small amounts of liquid during meals
- Plan meals or snacks before treatment
- Speak to your doctor about an appropriate anti-nausea medication



<u>Diarrhea</u>

- Drink adequate fluids
- Eat 5-6 small meals per day
- Eat low-fiber foods
 - soluble fiber: oranges & apples; carrots; oats
- Avoid high fat, greasy foods
- Avoid foods that may cause gas, i.e. cruciferous vegetables, excess fiber

Constipation

- Drink adequate fluids
- Eat high fiber foods
- Try hot liquids
- Exercise- a healthy gut likes movement
- Try a stool softener, but speak to your doctor before using a laxative
- Try soaking figs overnight, eat then softened figs in morning to assist with bowel movements; As per Dr. Oz ☺



Loss of Appetite

- Plan meals for each day
- Eat 5-6 small meals per day
- Keep high protein/calorie snacks close by for when you feel like eating
- Include extra protein and calories in your meals, be sure to include it at breakfast
- Create a relaxed environment
- Try a variety of foods

Food Safety Guidelines

- · WASH hands and surfaces often
 - Wash hands in warm soapy water for at least 20 seconds
- Rinse fruits and vegetables well with tap water
- Prevent cross-contamination
 - Use one cutting board for raw foods and another for ready-to-eat foods
- · Separate raw meats from other foods
- Use paper towels to clean up kitchen surfaces

Food Safety Guidelines

- Cook poultry and ground meat to minimum of 165° F
- Cook meats to minimum of 145° F
- Avoid undercooked eggs
- USDA Meat & Poultry Hotline: 1-888-674-6854
- FDA Food Information Line: 1-888-723-3366



Food Safety Guidelines

• Dining Out:

- Avoid buffets and open salad bars
- Avoid ordering salads or cut-up fruit, as these may not be properly washed
- Refrigerate leftovers immediately and do not keep longer than 72 hours





Summary

- Focus on a plant based, balanced meal plan
- Eat a variety of fruits and vegetables
- Choose mainly lean proteins
- Limit red and processed meats
- Be physically active for at least 30 minutes daily
 *maintain a BMI of 18.5-24.9
- Do your research and use supplements with caution Speak to your healthcare team about supplement usage

Nutrition Resources

- American Institute for Cancer Research (AICR)
- American Cancer Society
 - www.cancer.org
- Academy of Nutrition and Dietetics <u>www.eatright.org</u>
- Center for Science in the Public Interest
 www.cspinet.org

