

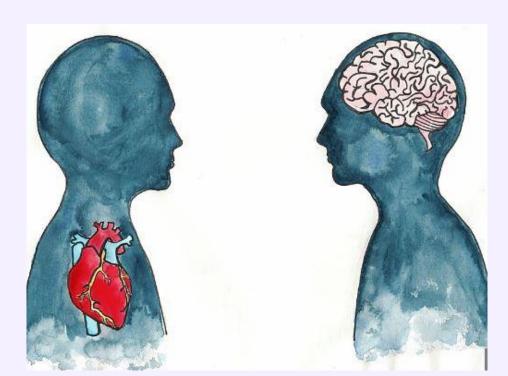
Healing Hearts: Protecting your Heart Health **Through Survivorship**

18th annual Moving Beyond Cancer to Wellness

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- Safeguard your cardiovascular health
- Nutrition, physical activity and mental/emotional practices to embrace life
- Vigor and resilience



Understanding the Cardiovascular Risks

1 Heart Disease

- > Coronary artery disease
- > Heart failure

2 Hypertension

High blood pressure, or
hypertension, can strain the
cardiovascular system over
time.

3 Metabolic Changes

- > Weight gain
- > Elevated cholesterol
- Increased blood sugar



2

Heart disease and Cancer – leading causes of dea

High-income north America (3-6 years)

Oceania (3·6 years)

Central Latin America (4 years)

Southern Latin America (4-1 years)

Australasia (4·9 years)

Western Europe (4·9 years)

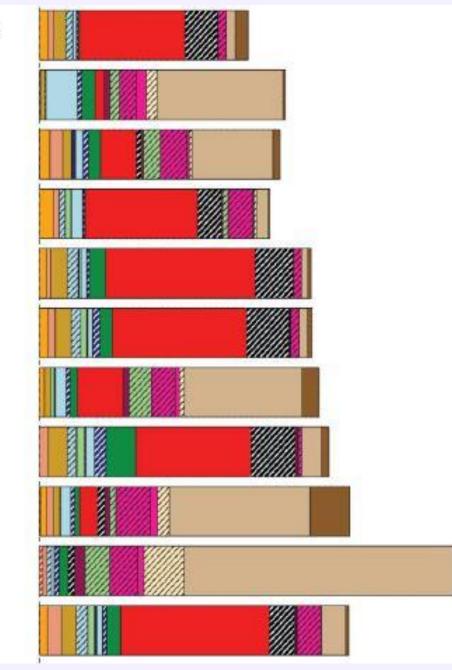
Caribbean (5 years)

High-income Asia Pacific (5.2 years)

Southeast Asia (5-5 years)

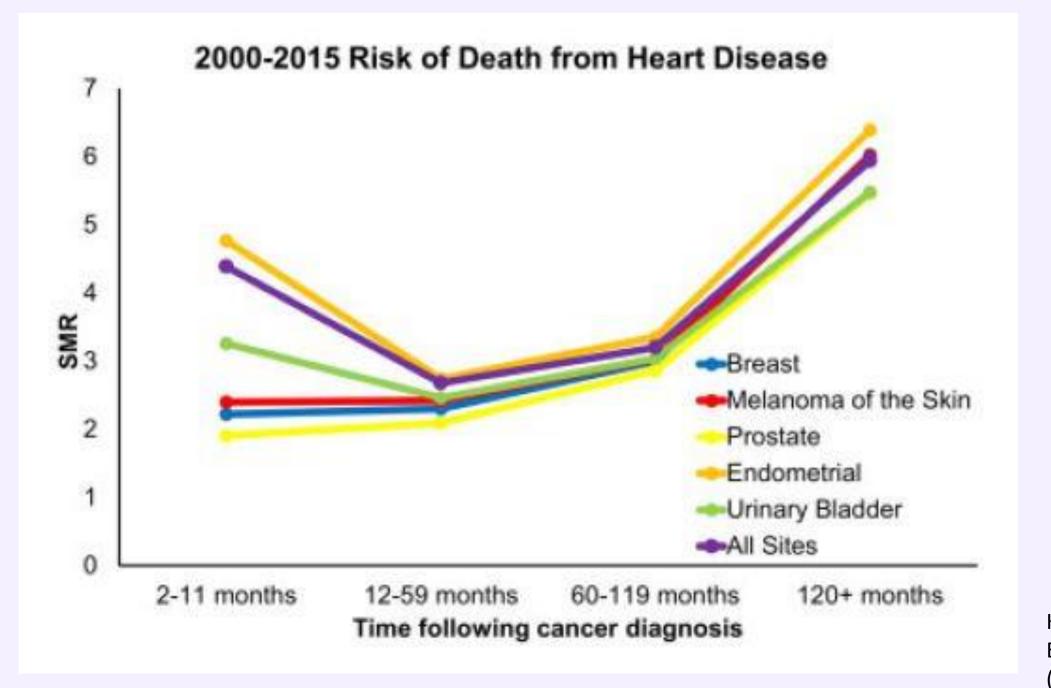
Western sub-Saharan Africa (5.6 years)

Central Europe (5·6 years)



GBD 2013 Mortality and Causes of Death Collaborators. Lancet. 2015 Jan 10; 385(9963): 117–171.

Increased risk of CV death in survivors

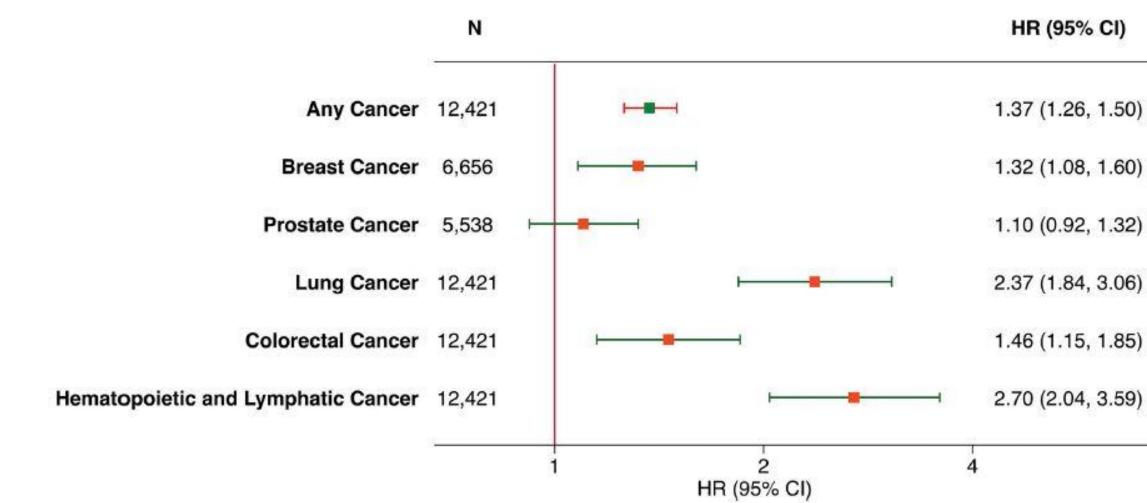


K. Sturgeon, et al. **European Heart Journal** (2019) 40, 3889–3897.





Increased risk of CV disease & HF in survivors



R. Florido, et al. J Am Coll Cardiol. 2022 July 05; 80(1): 22-32.



Who is at higher risk?

- Received treatment for Hodgkin lymphoma as a child
- Are 65 and older
- Received higher doses of chemotherapy
- Received certain medicines, such as trastuzumab (Herceptin, Ogivri) and

doxorubicin (Adriamycin, Doxil)



What medications confer higher risk for heart fa

- Trastuzumab
- Doxorubicin
- Daunorubicin (Cerubidine)
- Epirubicin (Ellence)
- Cyclophosphamide (Genoxal, Mitoxan)
- Osimertinib (Tagrisso)
- 5-FU

... and lots of others!

What medications confer higher risk for high blood pro

- Bevacizumab (Avastin, Mvasi)
- Sorafenib (Nexavar)
- Sunitinib (Sutent)

... and lots of others!

What should you do to determine your risk?



Ask your doctor if the treatments you are receiving can

affect your heart.

Blood Pressure - 101

- "135/82 mmHg"
- Top number = Systolic blood pressure = pressure in the arteries when the heart beats
- Bottom number = Diastolic blood pressure = pressure in the arteries when the \bullet

heart is resting between heart beats.

Normal: systolic lower than 120 mm Hg and diastolic lower than 80 mm Hg







Blood Pressure Control (≤120/80 mmHg)







Lifestyle Choices for Heart Health

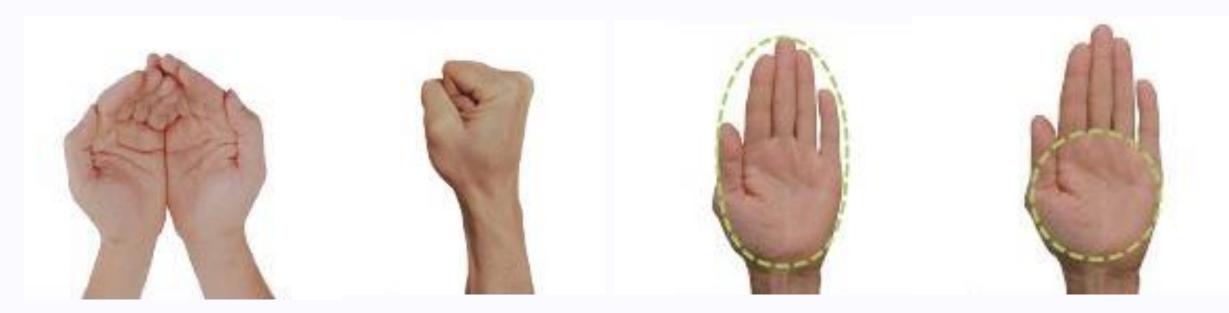
- Nutrition
- Physical Activity
- Emotional & Mental Wellbeing Stress Management



Nutrition



Portion sizes



Non-starchy veggies

e.g broccoli, cauliflower, carrots The more colors, the better!

Starchy veggies/legumes/ Grains

e.g rice, corn, bread roll, potato, chickpeas, lentils, beans, taro, Fish

Poultry/Meat Thickness similar to our palm.



Snacks

Nutrition

Fruits and vegetables to choose

Fresh or frozen vegetables and fruits.

- Low-sodium canned vegetables.
- Canned fruit packed in 100% juice or water.

Fruits and vegetables to limit

Coconut.

- Vegetables with creamy sauces.
- Fried or breaded vegetables.
- Canned fruit packed in heavy syrup.
- Frozen fruit with sugar added.



Nutrition

Grain products to choose

Grain products to limit or avoid

- Whole-wheat flour.
- Whole-grain bread, preferably 100% wholewheat bread or 100% whole-grain bread.
- High-fiber cereal with 5 g or more fiber in a serving.
- Whole grains such as brown rice, barley and buckwheat (kasha).
- Whole-grain pasta.
- Oatmeal (steel-cut or regular).

- White, refined flour.
- White bread.
- Muffins.
- Frozen waffles.
- · Cornbread.
- Doughnuts.
- Biscuits.
- Quick breads.
- · Cakes.
- Pies.
- Egg noodles.
- Buttered popcorn.
- High-fat snack crackers.

Limit the amount of fats/fatty foods

Limit amount of saturated fats: less than 6% of your calories, e.g.

if you take in 2,000 calories, then no more than 11g in a day.

- No trans fats! Not allowed to be used in the US.
- Check the food labels!

Check the food labels

about 11 servings per co Serving size 3 cookie	
Amount per serving	(
Calories 1	160
lesson and the second se	aily Value
Total Fat 8g	10%
Saturated Fat 2.5g	13%
<i>Trans</i> Fat Og	
Cholesterol Omg	0%
Sodium 110mg	5%
Total Carbohydrate 22g	8%
Dietary Fiber Less than 1g	3%
Total Sugars 11g	
Includes 11g Added Sugars	s 22%
Protein 1g	
Vitamin D Omcg	0%
Calcium 10mg	0%
Iron 1.1mg	6%
Potassium 40mg	0%





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4%
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and the second se
2%
3%
4%
0%
12%
0%
0%
2%
0%

Are there healthy fats?



Go for low-fat protein sources

- Trim visible fat off!
- Skinless chicken breast.
- Go for fish ideally the ones rich in omega-3 fatty acids, e.g salmon, mackerel, herring.
- Soybeans, flaxseed.
- Legumes beans, peas and lentils are good low-fat sources of protein. They contain no cholesterol, making them good substitutes for meat. And high in fiber!

Nutrition

Proteins to choose

Low-fat or fat-free dairy products, such as skim or low-fat (1%) milk, yogurt and cheese.

- Eggs.
- Fish, especially fatty, cold-water fish, such as salmon.
- Skinless poultry.
- Legumes.
- Soybeans and soy products, such as soy burgers and tofu.
- Lean ground meats.

Proteins to limit or avoid

- Full-fat milk and other dairy products.
- Organ meats, such as liver.
- · Fatty and marbled meats.
- · Spareribs.
- Hot dogs and sausages.
- Bacon.
- · Fried or breaded meats.



How about dairy?

- Low fat or skim milk and not full-fat dairy
- Cheese in moderation!



How much salt is ok to have?

- Have no more than 2,300 milligrams (mg) of sodium a day. That's about a teaspoon of salt.
- Ideally have no more than 1,500 mg of sodium a day
- Limiting the amount of salt you add to food at the table or while cooking is a good first step.



But much of the sodium comes from **canned or processed foods**, e.g. soups, baked goods and frozen dinners.

Eat **fresh foods** and make your own soups and stews to lower the amount of sodium you \succ eat.

How much salt is ok to have?

- Always check the sodium content on the label!
- Choose your condiments carefully. Many condiments are available

in reduced-sodium versions.

• Salt substitutes can add flavor to your food with less sodium.

Example of heart healthy meal plan

Breakfast: Greek yogurt with berries and a sprinkle of chopped nuts

(protein, fiber, healthy fats)

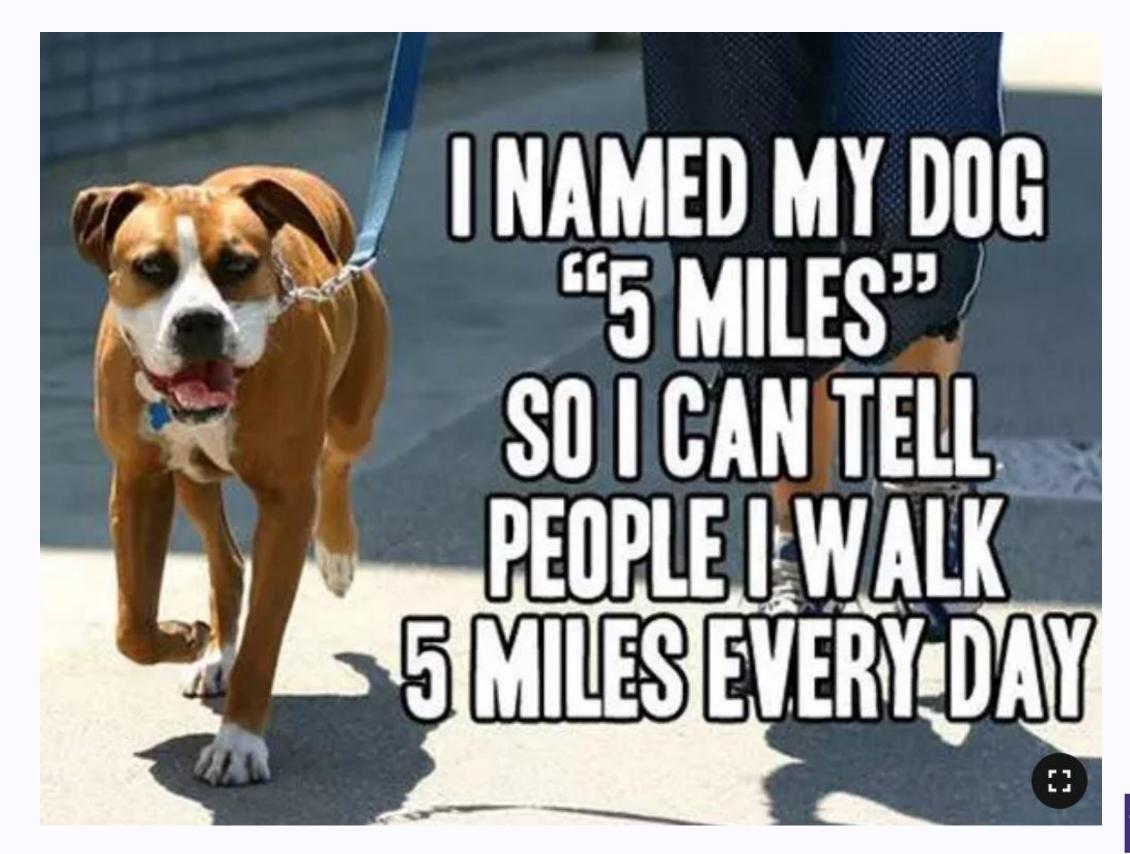
Lunch: Tuna salad sandwich on whole-wheat bread with lettuce,

tomato, and avocado (lean protein, whole grains, healthy fats)

Dinner: Baked salmon with roasted vegetables and quinoa (fish with

omega-3s, whole grains, fiber)

Snack (optional): Apple slices with almond butter (fruit, healthy fat)



 $oldsymbol{W}$ university of Washington







stomach cancer

esophageal cancer

breast cancer

For all adults, exercise is important for cancer prevention and specifically lowers risk of seven common types of cancer:

bladder cancer



endometrial cancer





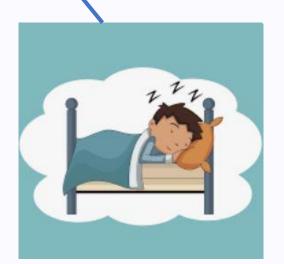


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Bader Mores







Exercise







SIT LESS



or a combination of both, spread throughout the week.



Get up and move throughout the day.

Increase time, distance, amount or effort for more

Include muscle-strengthening activity (like resistance

Moderate vs. Vigorous aerobic activities

Moderate: you'll breathe harder than normal, but you'll still be able to talk.

- brisk walking (at least 2.5 miles per hour)
- water aerobics
- ✓ dancing (ballroom or social)
- ✓ gardening
- tennis (doubles) \checkmark
- biking slower than 10 miles per hour \checkmark



Moderate vs. Vigorous aerobic activities

Vigorous: You'll probably get warm and begin to sweat. **Unable to talk** much

without getting out of breath.

- hiking uphill or with a heavy backpack
- running
- ✓ swimming laps
- ✓ vigorous aerobic dancing
- heavy yardwork such as continuous digging or hoeing
- \checkmark tennis (singles)
- ✓ cycling 10 miles per hour or faster
- jumping rope



Be active as much as you can

- Be active however and wherever you can! It all adds up to better health.
- Avoid inactivity and return to normal daily activities as soon as possible after diagnosis and treatment.
- Keep it consistent Take part in regular physical activity.
- Start slowly and build up the amount of physical activity over time.
- If you exercised before treatment, you might need to exercise less or at a lower intensity during treatment.
- Take your time and be patient with yourself as you gradually increase your activity. Remember – the most important thing is to move as much as you can.

Personalized Exercise Routines

Consult Experts

Work closely with your healthcare team to develop a personalized exercise plan that aligns with your unique needs and abilities.

Celebrate Milestones

Recognize and celebrate your progress, no matter how small, to stay motivated and inspired on your journey to better heart health.

3

Start Slowly

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Begin with gentle, low-impact activities and gradually increase the intensity and duration as you build strength and endurance.

Monitoring Your Progress

Heart Health Checkups

Regularly monitor your blood pressure, cholesterol levels, and other cardiovascular markers with your healthcare team.

Activity Tracking

Use fitness trackers or apps to monitor your physical activity and ensure you're meeting your exercise goals.



Weight Managemen Maintain a healthy weight through a balanced diet and

regular exercise to support your overall cardiovascular health.

নচ Ongoing Support

Stay in close communication with your healthcare providers to address any concerns and make adjustments to your plan as needed.



Building a Support Network

Connect with Others

Seek out support groups or online communities of cancer survivors who share your goals and experiences.

Enlist Family and Friends

2

Involve your loved ones in your journey, as their encouragement and accountability can be invaluable.

Celebrate Victories

3

Recognize and commemorate your progress, no matter how small, to stay motivated and inspired.

Embracing a Resilient Future

Cardiovascular Health	Empowered Lifestyle	Renewed Vitality
Mitigate risks and strengthen your heart	Adopt sustainable habits for long-term wellness	Embrace life with confidence and resilience



Resources

- https://www.cancer.org/cancer/survivorship/long-term-health-concerns/long-term-side-effects-of-cancer.html
- https://www.heart.org/en/healthy-living
- https://www.cancer.org/cancer/survivorship/be-healthy-after-treatment.html
- https://www.exerciseismedicine.org/eim-in-action/moving-through-cancer/
- https://recipes.heart.org/en/
- https://www.heart.org/en/grocery-list
- https://www.cancer.org/cancer/survivorship/be-healthy-after-treatment/physical-activity-and-the-

cancer-patient.html

Thank you!

Questions?



Let's connect!

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