Living Better with Heart Failure

Caring for your heart









Your Care Team

The patient is ultimately responsible for their health and serve as a key member of the treatment plan. Together, you and your care team can improve your health every day.



Pharmacist
Nurse
Hospice
Home Health



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How the Heart Works

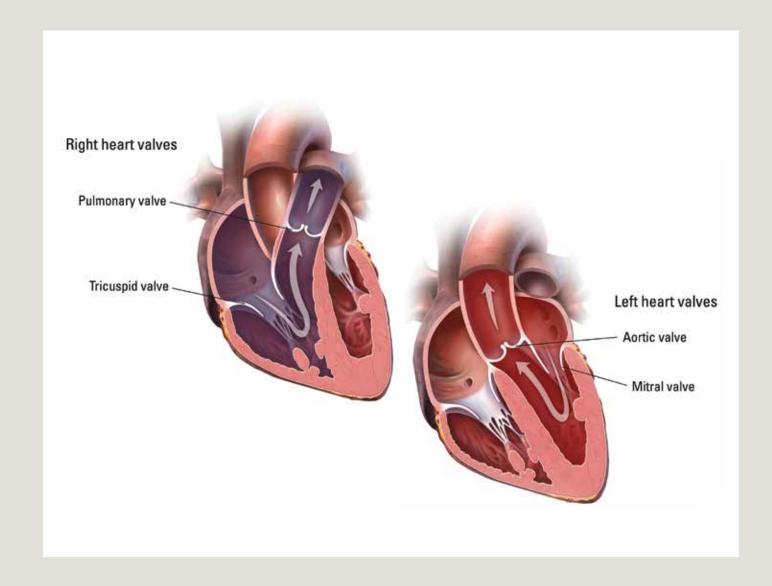
Your heart is a strong, muscular pump a little larger than a fist. It works 24/7 to pump blood to your lungs and to all your body's tissues.

The heart has four chambers, two on the right and two on the left:

- Two upper chambers called atria (one is an atrium)
- Two lower chambers called ventricles

The right atrium takes in oxygen-depleted blood from the rest of the body and sends it back out to the lungs through the right ventricle.

Oxygen-rich blood travels from the lungs to the left atrium, then on to the left ventricle, which pumps it to the rest of the body.





Heart failure means your heart cannot pump the blood well. When your heart doesn't pump well, you may feel weak, tired, faint or dizzy. Heart failure develops in response to significant injury to the heart. Common causes of heart failure include:

- Heart attacks
- Uncontrolled high blood pressure
- Heart valve disease
- Heart infections
- Irregular heart rhythms
- Uncontrolled diabetes
- Drinking excessive alcohol or illicit drug use
- Chemotherapy or radiation therapy

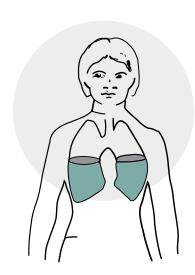
These conditions change the shape and structure of the heart resulting in poor functioning. When the heart does not pump enough oxygen-rich blood to supply the body, there is additional stress on an already weak heart.

Heart Failure Symptoms

Common heart failure symptoms can include:

- Shortness of breath
- Difficulty breathing in a flat or reclined position
- Nonproductive cough
- Decreased level of activity due to fatigue or tiredness

- Changes in urine output
- Edema (extra fluid) in the feet, ankles, legs, abdomen*, or generalized throughout the whole body.
- *Edema in the abdomen can cause stomach discomfort, nausea, decrease or loss in appetite, and constipation.



Heart failure causes water to leak out of your blood vessels. This water can fill up your lungs: make you cough, short of breath and have trouble breathing lying down.



It can also cause your legs to swell.

Common Diagnostic Testing

Echocardiogram (Echo): an ultrasound used to examine the size, shape, function and motion of the heart. It also measures your heart's ejection fraction (EF). Ejection fraction is a measure of the amount of blood that the heart pumps out to your body. A normal EF is 50% or higher.

Chest x-ray: A picture of the lungs that shows if you have congestion.

BNP (Brain Natriuretic Peptide): is a blood test used to help find out if a person has heart failure. BNP is made by your heart and shows how well your heart is working. The level of BNP increases when heart failure symptoms worsen, and decreases when heart failure symptoms improve.

Things You Can Do to Live Well with Heart Failure



Weigh yourself and record daily



alcohol you drink



Limit the amount of



Avoid temperature extremes

Take your medicines

each day



Exercise regularly





Daily Check-Ups to Monitor Symptoms

Heart failure can cause you to have symptoms and feel bad. If you catch these symptoms early, you can take action to feel better and stay out of the hospital.

Daily Check-Up Checklist

- How is your activity and energy level? Has it decreased?
- Did you skip or miss your medicines?
- Are you short of breath at rest?
- Do you have more swelling in your feet, ankles, legs, or belly?
- Has your weight changed? How much? (A helpful "weight log" is included on page 26.)
- Do you have a new or worsening cough?
- How is the quality of your sleep?
- Are you urinating more or less frequently?

HELPFUL HINT

Share this information with your provider.

Heart Failure Medicines

Medicines are very important for people with Heart Failure. Studies show that these medicines can reduce your swelling, help you breathe better, increase activity level and improve heart function. Most people will need several medicines for improvement. Below are the medicines your healthcare provider may prescribe for you to treat your heart failure:

Heart Failure Medicines

Types of Medications	What they do for you
Ace Inhibitors	Widens blood vessels, lowers blood pressure, and improves blood flow which decreases the amount of work that the heart has to do
Aldosterone Antagonist	Mild diuretics that blocks action of a stress hormone (aldosterone) which decreases strain on the heart
Angiotensin II Receptor Blockers	Widens blood vessels, lowers blood pressure, and improves blood flow which decreases the amount of work that the heart has to do
Beta Blockers	Slows heart rate and lowers blood pressure which decreases the amount of work the heart has to do; can limit or reverse some damage to your heartdd
Calcium Channel Blockers	Relaxes blood vessels, slows heart rate, and lowers blood pressure which decreases the amount of work that the heart has to do
Digitalis	Increases the force of each heart beat, allowing more oxygen rich blood to your body
Diuretics (Fluid Pills)	Helps your body get rid of extra fluid, thus making it easier to breathe, easier for your heart to pump and helps lower blood pressure



Heart Failure Medicines (continued)

Types of Medications	What they do for you
Hydralazine and Nitrate	Relaxes and widens blood vessels, lowers blood pressure and improves blood flow which decreases the amount of work that the heart has to do; decreases chest pain
Potassium or Magnesium Supplements	Replaces potassium or magnesium that may be lost in urine when taking a diuretic

Heart Failure Medicines and Side Effects

Examples of Medicines		Possible Side Effects
Type: ACE Inhibitors		
Benazepril (Lotensin) Captopril (Capoten) Enalapril (Vasotec) Fosinopril (Monopril) Lisinopril (Prinivil, Zestril)	Moexipril (Univasc) Perindopril (Aceon) Quinapril (Accupril) Ramipril (Altace) Trandolapril (Mavik)	Lowers blood pressure Dizziness Cough Problems with kidneys Increases potassium level Swollen face, tongue, throat (get medical help immediately)
Type: Aldosterone Antagor	iists	
Aldosterone (Spironolactone Eplerenone (Inspra))	Raises potassium level Breast tenderness and enlargement

Examples of Medicines		Possible Side Effects
Type: Angiotensin II Receptor Blockers (ARBs)		
Azilsartan (Edarbi) Candesartan (Atacand) Eprosartan (Teveten) Irbesartan (Avapro)	Losartan (Cozaar) Olmesartan (Benicar) Telmisartan (Micardis) Valsartan (Diovan)	Lowers blood pressure Dizziness Problems with kidneys Increases potassium
Type: Beta Blockers		
Bisoprolol (Zebeta) Carvedilol (Coreg) Metoprolol (Lopressor, Topro	I XL)	Feeling tired Dizziness Lowers blood pressure Masks low blood sugar Possibly worsens asthma symtoms
Type: Calcium Channel Blocker	S	
Amlodipine (Norvasc) Diltiazem (Cardizem) Felodipine (Plendil)	Nifedipine (Adalat, Procardia) Nisoldipine (Sular) Verapamil (Calan, Verelan)	Lowers blood pressure Swelling in legs, ankles and feet Constipation
Type: Digitalis		
Digoxin (Lanoxin, Digitek, Lanc	oxicaps)	Blurred or colored vision Nausea or vomiting Abnormal heart rhythm



Heart Failure Medicines and Side Effects (continued)

Examples of Medicines		Possible Side Effects	
Type: Diuretics (Fluid Pills)			
Bumetanide (Bumex) Chlorothiazide (Diuril) Chlorthalidone (Hygroton) Furosemide (Lasix)	Hydro-chlorothiazide (Hydrodiuril) Metolazone (Zaroxolyn) Torsemide (Demadex)	Lowers blood pressure Dizziness Decreases potassium and magnesium levels Dehydration	
Type: Hydralazine and Nitrate			
Hydralazine/Isosorbide Dinitrate (Bidil) Hydralazine (Apresoline) Isosorbide Dinitrate (Isordil) Isosorbide Mononitrate (Imdur)		Headache Dizziness Lowers blood pressure Nausea	
Type: Potassium or Magnesium Supplements			
Potassium chloride (KDur, Klor-con) Magnesium Oxide		Raises potassium or magnesium levels Magnesium may cause diarrhea	

How to Take Your Medicines

Heart failure can be controlled with medicine. Taking your medicine will help your heart work better and can make you feel better and live longer.

- Take each of your medicines, everyday, at the right times.
- Do not skip doses of your medicines, even when you feel good.
- If you think you are having side effects from your medicines, call and talk with your healthcare provider or pharmacist immediately.
- Have all of your medicines filled at the same pharmacy. It is helpful to have one pharmacist review all of your medicines to avoid drug interactions that could be harmful to you.
- If you are having trouble paying for your medicine, talk with your healthcare provider.
- Talk to your pharmacist about current medicines you are taking before purchasing any over the counter drugs.



Take All Your Medicine

Think of a way to take your medicines that will help you remember how and when to take them.



Keep a list of your medicines with instructions for how many pills to take and when to take them.



Keep your medicine bottles in a safe, convenient place that makes it easy for you to remember to take them.



Some people like to use a pill box to put their medicines in for each day of the week. Fill the box on Sunday, then you will know each day if you have taken all of your medicine.



If you are going to be away from home when your medicine is due, take your medicine with you.



When you travel, bring your medicine containers with you to identify what medicines you are carrying.



When you are traveling by plane, do not pack all of your medicines in your checked bags.



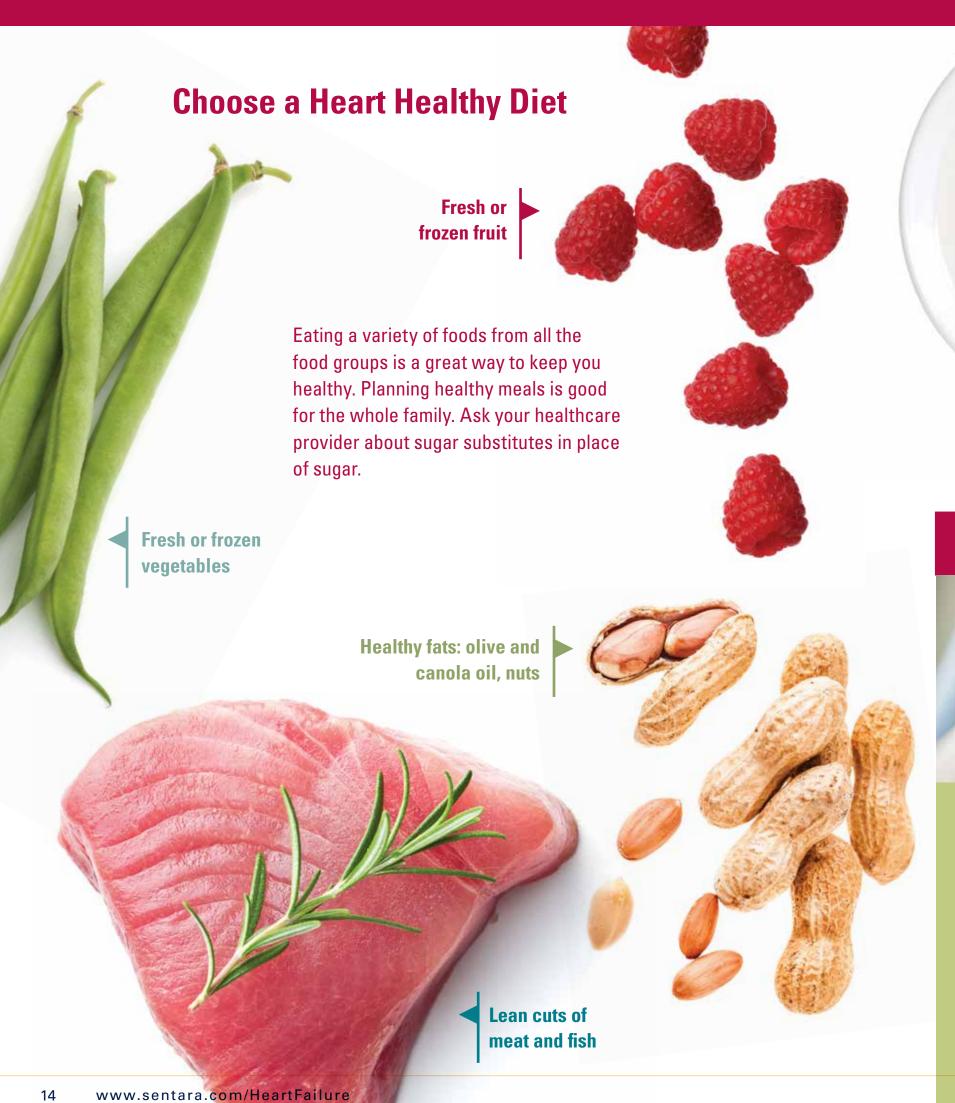
Medicine List

Bring your current medicine list each time you go to your healthcare provider.

- Be sure you have included any over-thecounter medicines, herbal medicines or dietary supplements you are taking.
- Avoid non-steroidal anti-inflammatories (NSAIDs) as they may worsen fluid retention. Examples: Advil, Aleve, Ibuprofen, Motrin, Naproxen
- Make sure you always have enough of your medicines.

- When your healthcare provider changes your medicines, ask for an updated medicine list before you leave your visit.
- When the label says "NO refills" or "Refills: 0" — call your healthcare provider right away to get more refills.

Don't let your medicines run out!





How to Eat Less Sodium (Salt)



Consume Less Than

l Teaspoon

(2,000 MG) of Sodium a day

including sodium found in packaged or prepared foods.

Salt is also called "sodium" and is found in many foods.

Most foods you eat have salt even if you can't see or taste it.

Salt acts like a sponge and makes the body hold water.

Eating too much salt can cause your weight to go up and cause swelling in your feet, ankles, legs or belly and make it hard to breathe.

It is recommended that you limit your salt intake to less than 2,000 mg/day. Ask your healthcare provider what amount is right for you.

Ask your health care provider about salt substitutes.

Reading a Food Label

Step 1:

Look at serving size.

Step 2:

Look at the sodium(salt) perserving. Choose foods with less than 140 mg sodium per serving.

Nutrition Facts

Serving Size 1 cup (253 g) Servings Per Container 4

Amount	Per Se	erving	g	
Calories	260	Cal	ories fro	m Fat 72
			% C	aily Value*
Total Fat	8g			13%
Saturat	ed Fat 3	Bg		17%
	ol 130 m	g		44%
Sodium ^r	1010mg			42%
Total Car	bohydra	te 22	g	7%
Dietary	Fiber 9g)		36%
Sugars	4g			
Protein 2:	 5g			
Vitamin A	35%	•	Vitamin	C 2%
Calcium	6%	•	Iron	30%
 Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs. 				
	Calorie	es	2,000	2,500
Total Fat Sat Fat Cholesterol Sodium Total Carbor Fiber	Less 1 Less 1 Less 1 Less 1 nydrate	than than	65g 20g 300mg 2,400mg 300g 25g	80g 25g 300mg 2,400mg 375g 30g
Calories per Fat 9		hydrate	4 •	Protein 4





Tips on How to Eat Less Sodium (Salt) at Home

Don't add salt to food when you cook or eat. Take the salt shaker off the table.

Season foods with herbs and seasonings that do not have salt.

Make your own or choose low sodium soups, sauces, salad dressings, breads, and desserts.

Stay away from "instant foods" that come in a bag or a box.

Rinse canned foods before cooking.

from Home

Ask for food cooked with no salt

Stay away from butter, cheese, or sauces

Stay away from fried foods

Choose grilled, baked, broiled or steamed foods

Choose oil and vinegar salad dressing

Limit fast food items or choose items with less sodium

Stay away from bacon, sausage, or ham



Exercising with Heart Failure

Being active is one of the best things you can do.

Talk to your healthcare provider before beginning your exercise program.

Ask your physician if cardiac rehab is right for you.

Your body needs time to get used to being more active. You will notice that it will get easier and you will be able to do more.

Don't be afraid to ask your healthcare provider when it is safe to resume sexual activity. Typically, your healthcare provider will want to know if you can climb two flights of stairs comfortably or walk three blocks at a brisk pace before you can have sex safely.

Exercising will get easier. Here are some steps for doing more:

Start slowly. Only do what is comfortable for you.

Do some activity that makes your heart beat a little faster for 10 minutes. Try to do this most days of the week.

After a couple of weeks, add 5 minutes to your exercising time. Continue to add 5 minutes until you can exercise for 30 minutes at a time.

Stop if you feel chest pain, dizziness, or have severe shortness of breath.

Don't forget to do cool down exercises at the end of your exercising.



Advance Directive

With any chronic disease, it is a good idea to complete an advance directive. An advance directive allows you to clearly state your medical wishes. Think about what type of treatment you would want, or not want, if you couldn't speak for yourself due to a serious decline in your health. For example, would you want a breathing tube if you weren't able to breathe well on your own? Would you want chest compressions if your heart stopped? Your health care team wants to follow your wishes, so if you have medical preferences, please let us know! Preparing an advance directive can help reduce stress for yourself, your caregivers, and loved ones. Request to speak with an Advance Care Plan Facilitator to learn more or to receive help with completing an advance directive.

Walking program timeline

GOAL: Increase by 1-2 minutes extra walk time every other day

2nd day home Track your progress ✓



S M T W Th F S



S M T W Th F S

S M T W Th F S

1-2 times a day

S M T W Th F S

1 time a day

S M T W Th F

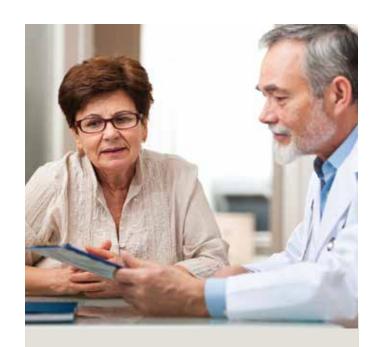
1 time a day

Begin walking



THREE **FOUR** SIX FIVE 15 minutes 20 minutes 25 minutes 30 minutes

2-3 times a day



Impact of Heart Failure (HF)

Heart failure, in most cases, is a chronic disease that often worsens over time. You play an important role in the slowing or speeding up the disease process. "HF exacerbation" is when symptoms are so severe that hospitalization is required. Each time you experience an HF exacerbation, your heart becomes even weaker. Your health care team is dedicated to teaching identification, treatment and management of HF symptoms to help you prevent your heart from becoming weaker.

Impact of Other Diseases on **Heart Failure**

Atrial Fibrillation (Afib)

Atrial fibrillation is an irregular heart beat. Especially when the heart beat is too fast, the heart does not fill up with blood effectively to pump out to the body. When the heart does not pump effectively, heart failure symptoms are likely to develop.

Chronic Obstructive Pulmonary Disease (COPD)

Chronic Obstructive Pulmonary Disease is a chronic inflammatory lung disease that causes reduced airflow in the lungs. When the heart and kidneys receive low oxygen levels, blood and fluid back up and cause shortness of breath. COPD can worsen heart failure symptoms.

Sleep Apnea

Sleep apnea is when breathing stops briefly or becomes very shallow while sleeping. This reduces the flow of oxygen to organs, which makes the heart work harder. Untreated, this can lead to many heart problems including heart failure, high blood pressure, and atrial fibrillation. Symptoms include snoring, feeling unrested after sleep, or waking up suddenly feeling like you are gasping or choking. Sleep apnea is serious and should not be ignored. A sleep study is performed to diagnose sleep apnea. The most common treatment is positive airway pressure therapy, such as CPAP or BiPAP. However, there are other options. Talk with your health care team to discuss the best treatment option for you.

Diabetes Mellitus

Diabetes is a disease that affects your body's ability to produce or use insulin. Hyperglycemia, or high blood sugar, causes tissue inflammation that injures blood vessels and nerves. This limits blood flow and can weaken the heart, kidneys, and other organs. This is why having diabetes increases the risk of heart disease and stroke. It is important that people with diabetes maintain normal blood glucose levels to slow the development of heart disease. Medications and lifestyle changes, such as diet and exercise, are often needed to control blood glucose levels. Talk with your health care team about speaking with a diabetes specialist, consultant or educator.

Kidney Disease

Acute Kidney Injury (AKI) is a new decrease in kidney function and Chronic Kidney Disease (CKD) is the progressive loss of kidney function. The job of the kidneys is to filter waste and excess fluids from the body, which is removed either by urine or dialysis. The heart and kidneys work together to maintain a fluid and electrolyte balance within the body. However, keeping this balance is a struggle with both heart failure and kidney disease. With kidney disease, the kidney releases stress hormones that cause the body to hold onto salt and extra fluid. The extra fluid puts more stress on the heart and the kidneys, which worsens blood flow circulation. Some medications can worsen kidney function and interfere with your diuretics (water pills) from working. You may have a nephrologist to monitor your kidney function as well as a cardiologist to monitor your heart.



Think Positive Thoughts

It is normal to feel sad, overwhelmed, down in the dumps or nervous at times. Some medicines can affect your mood. If you feel this way, talk with your healthcare provider.

- Take one day at a time.
- Be grateful.
- Be kind.
- Focus on the things you can do. These may include enjoying a hobby, taking time to meditate, praying, or spending time with the people you care about.
- Get enough rest and try to lessen the stress in your life.
- Enjoy your family and pets.
- Stay active and have fun with your friends.
- Consider joining a support group.

Think Safety



Look around your house for anything you may trip on or over



Use a walker or a cane if you are unsteady



Remove any throw rugs, cables or extension cords



Get your pneumonia vaccine and your yearly flu vaccine



Patient Checklist

I have received Heart Failure education.
I have a clear explanation of my diagnosis of Heart Failure.
I have reviewed my medicines and know when and how to take them.
I understand the importance of and how to weigh myself.
I understand the importance of and how to check for swelling.
I understand when it is necessary to call my healthcare provider.
I understand my instructions on heart healthy diet and any restrictions.
I know what exercises I can do.
I know how to stay safe and how to keep a healthy heart.

Important questions to ask your healthcare provider:

1. What is my target blood pressure?
2. What is my target heart rate?
3. What is my target cholesterol level?
Notes

My Weight Log

DATE	WEIGHT	CHANGE + / -

Weigh Yourself Every Day

It is important to monitor your weight.
Ask your healthcare provider what your target weight should be.

My Target Weight:



Weigh yourself first thing every morning:

- at the same time
- after you empty your bladder
- before you eat
- use the weight log provided or a calendar to write your weight down every day

HELPFUL HINTS

Wear same or similar clothes and use the same scale.

Call your healthcare provider if you gain 3 or more pounds in 1 day or 5 pounds in 1 week.

Don't forget to keep a weight log!



Know Your Heart Failure Zones

Knowing your zones help you know when to ask for help.

Doing daily checks help you monitor what zone you are in and what steps you should take depending on what zone you are in.

Call your healthcare provider if you:

- are in the yellow zone
- have been to the emergency room
- have been hospitalized

Call 911 if you are in the red zone.

Call 9-1-1

Do not drive to the emergency room

Heart Failure Zones – Know Your Zone Everyday



Daily Check:

- Weigh yourself first thing every morning-after you empty your bladder and write it down
- Take your medicine
- Check for swelling in feet, ankles, legs and belly
- Eat a low sodium diet less than 2,000 mg each day
- Balance activity and rest periods
- Don't smoke and limit alcohol intake



Your symptoms are under control if you have:

- No shortness of breath
- No weight gain more than 2 pounds in 1 day
- No swelling of your feet/ankles/legs/belly
- No decrease in ability to maintain activity level
- No chest pain



Call your healthcare provider (#_____ if you have:

- More shortness of breath, dry hacking cough
- Weight gain of 3 pounds in 1 day or 5 pounds in 1 week
- More swelling of feet, ankles, legs and belly
- Feeling more tired; no energy; dizzy/faint
- You need more pillows when lying down or need to sleep in a chair



Call 911 if you have any of the following:

- Struggling to breathe, more shortness of breath while resting
- Chest pain
- Confused or can't think clearly
- Call 911 and get to the Emergency Room. Do NOT drive yourself!



Visit these sites if you would like more information about staying healthy with heart failure.

Sentara Healthcare

www.sentara.com

American Heart Association

www.heart.org

National Institutes of Health

www.nhlbi.nih.gov

U.S. Department of Agriculture Food and Nutrition Information Center

www.nal.usda.gov/fnic

U.S. Department of Health & Human Services Office of Disease Prevention and Health Promotion

www.health.gov

Atención: si habla español, tiene a su disposición servicios lingüísticos gratuitos. Llame al 844-809-6648.

주의: 한국어를 사용하시는 경우, 언어 지원 서비스를 무료로 이용하실 수 있습니다. 844-809-6648 번으로 전화해 주십시오.

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