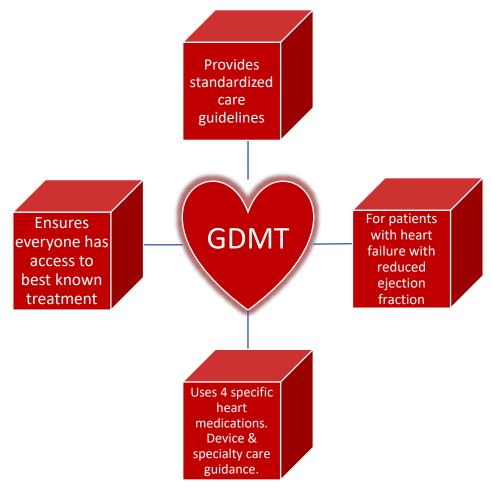
Heart Failure Program **Topic Series Guideline Directed Medical Therapy GDMT**



GUIDELINE DIRECTED MEDICAL THERAPY GDMT

WHAT IS IT?



HEART FAILURE with REDUCED EJECTION FRACTION HFrEF

HEART FAILURE

Heart failure with reduced ejection fraction (HFrEF) is another name for systolic heart failure.

Systolic heart failure is when the left ventricle (LV) **cannot pump** blood well out to the body.



EJECTION FRACTION

Ejection fraction tells us the percentage (the fraction) of blood that is in the left ventricle (LV) that is ejected (pumped) into the body from the left ventricle.

Click the link to learn more

<u>Heart Failure With Reduced Ejection Fraction</u> (Systolic Heart Failure) (healthwise.net) The 4 Pillars of GDMT Medications

Beta Blocker metoprolol carvedilol bisoprolol 2

MRA spironolactone eplerenone

3

ARNi Entresto (sacubitril/ Valsartan) OR

ACEi lisinopri

lisinopril enalapril ramipril captopril OR

ARB losartan valsartan irbesartan

4

SGLT2
Farxiga
(dapagliflozin)
Jardiance
(empagliflozin)



Beta Blockers

Click the link to watch a short video

Beta-Blockers: Helping Your Heart Relax (healthwise.net)



To read more about Beta Blockers click the link Beta-Blockers (healthwise.net)

How Beta Blockers Help Your Heart

- beat slower
- beat with less force
- decreases stress on the heart

Side Effects

- dizziness
- lightheadedness
- tiredness

Serious Side Effects

- can worsen asthma symptoms
- dangerous to suddenly stop taking
- can hide symptoms of low blood sugar

- let your Care Team know right away
- do not stop taking medication on your own
- Care Team will give guidance on what to do

Beta Blocker metoprolol carvedilol bisoprolol Independent Health.

TARGET DOSES Beta Blockers

Medication	Starting Dose	Target Dose
Metoprolol Succinate	12.5 to 25mg once daily	200mg once daily
Carvedilol	3.125mg twice daily	25 to 50mg twice daily
Carvedilol CR	10mg once daily	80mg once daily
Bisoprolol	1.25mg once daily	10mg once daily

MRAs mineralocorticoid receptor antagonists

Click the link to watch a short video

Diuretics: Making Them Easier to Take (healthwise.net)



To read more about MRAs click the link
Spironolactone Oral Tablet (SPIRONOLACTONE - ORAL) (healthwise.net)

How MRAs Help Your Heart

- decrease fluid so heart doesn't have to work as hard
- lower blood pressure
- improves exercise tolerance, keeping heart healthier

Common Side Effects

- increased urination
- can increase potassium levels
- dizziness

Serious Side Effects

- breast pain or swelling
- fast, irregular or slow heartbeat
- muscle cramps or weakness

- let your Care Team know right away
- do not stop taking medication on your own
- get blood work as directed by doctor
- Care Team will give guidance on what to do

MRA spironolactone eplerenone Independent Health.

TARGET DOSES MRAs

Medication	Starting Dose	Target Dose
Spironolactone	12.5 to 25mg once daily	25 to 50mg once daily
Eplerenone	25mg once daily	50mg once daily

ARNi angiotensin II receptor blocker & neprilysin inhibitor combination drug

ENTRESTO CONTAINS 2
ACTIVE INGREDIENTS
THAT WORK IN
DIFFERENT WAYS.

Entresto.com

The first ingredient, valsartan, has been used for years to treat Heart Failure. Valsartan reduces blood vessel tightening and the buildup of sodium and fluid.

The second ingredient, sacubitril, works unlike any other Heart Failure treatment and can only be found in ENTRESTO. It helps relax blood vessels and decrease sodium and fluid in the body.

To read more about ARNI click the link

Sacubitril/Valsartan Oral Tablet (SACUBITRIL/VALSARTAN - ORAL) (healthwise.net)

How ARNi Helps Your Heart

- decrease fluid & salt retention
- keep blood vessels open
- decrease strain on heart

Common Side Effects

- dizziness
- lightheadedness, low blood pressure
- cough

Serious Side Effects

- high potassium levels
- back pain
- impaired kidney function (rare)

- let your Care Team know right away
- do not stop taking medication on your own
- your Care Team will give guidance on what to do



ARNi Entresto (sacubitril/ Valsartan) OR ACEi lisinopril enalapril ramipril captopril OR ARB losartan valsartan irbesartan

TARGET DOSES ARNi

Medication	Starting Dose	Target Dose
Sacubitril/Valsartan	49mg sacubitril/51mg	97mg sacubitril/103mg
(Entresto)	valsartan twice daily (may	valsartan twice daily
	be initiated as	
	24mgsacubitril26mg	
	valsartan twice daily)	



ACEi angiotensin converting enzyme inhibitor

Click the link to watch a short video

ACE Inhibitors and ARBs: Helping Blood Flow Better (healthwise.net)



To read more about ACEi click the link
Angiotensin-Converting Enzyme (ACE) Inhibitors (healthwise.net)

How ACEi Helps Your Heart

- decrease fluid & salt retention
- keep blood vessels open
- decrease strain on heart

Common Side Effects

- cough
- lightheadedness
- dizziness

Serious Side Effects

- swelling of face, mouth or throat
- slow heartbeat
- shortness of breath

- let your Care Team know right away
- do not stop taking medication on your own
- your Care Team will give guidance on what to do

3

ARNi Entresto (sacubitril/ Valsartan) OR ACEi lisinopril enalapril ramipril captopril OR ARB losartan valsartan candesartan

TARGET DOSES ACEi

Medication	Starting Dose	Target Dose
Lisinopril	2.5 to 5mg once daily	20 to 40mg once daily
Enalapril	2.5mg twice daily	10 to 20mg twice daily
Ramipril	1.25 to 2.5mg once daily	10mg once daily
Captopril	6.25mg three times daily	50mg three times daily



ARBs angiotensin II receptor blocker



To read more about ARBs click the link

Angiotensin II Receptor Blockers (ARBs) (healthwise.net)

How ARBs Help Your Heart

- keep pressure from rising
- prevent a heart attack or limit damage after one
- help the heart pump more blood to the body

Common Side Effects

- dizziness
- weakness
- cough, nasal congestion

Serious Side Effects

- high potassium levels
- back pain
- impaired kidney function (rare)

- let your Care Team know right away
- get blood work as directed by doctor
- do not stop taking medication on your own
- your Care Team will give guidance on what to do



ARNi Entresto (sacubitril/ Valsartan) OR ACEi lisinopril enalapril ramipril captopril OR ARB

losartan

valsartan

candesartan



TARGET DOSES ARBs

Medication	Starting Dose	Target Dose
Losartan	25 to 50mg once daily	50 to 150mg once daily
Valsartan	20 to 40mg once daily	160mg twice daily
Candesartan	4 to 8mg once daily	32mg once daily

SGLT2i sodium-glucose cotransporter-2 inhibitor







To read more about SGLT2i click the link

<u>SGLT2 Inhibitors for Heart Failure: What You Need to Know – Fact Sheet | CardioSmart – American College of Cardiology</u>

How SGLT2i Helps Your Heart

- improves heart function
- removes excess fluid, like a water pill
- decreases hospitalizations

Common Side Effects

- dehydration
- urinary tract infections, yeast infections
- low blood pressure

Serious Side Effects

- diabetic ketoacidosis
- low blood sugar

- let your Care Team know right away
- get blood work as directed by doctor
- do not stop taking medication on your own
- your Care Team will give guidance on what to do

Independent Health.

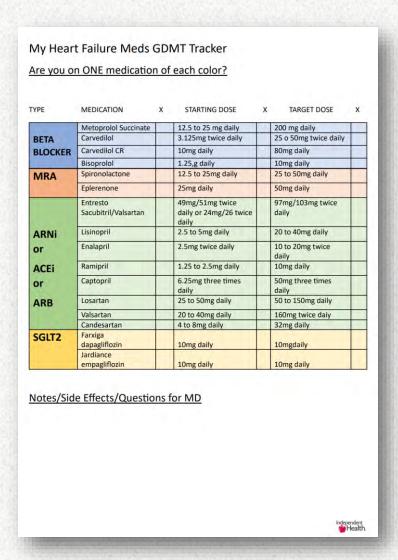
TARGET DOSES SGLT2

Medication	Starting Dose	Target Dose
Dapagliflozin (Farxiga)	10mg once daily	10mg once daily
Empagliflozin (Jardiance)	10mg once daily	10mg once daily

To print your GDMT Tracker Double click here



- Bring your tracker to appointments.
- Take your medications as ordered.
- Report any side effects.
- All four medications are usually started within a short time frame.
- How you feel, lab work & ECHO results guide your doctor.
- Meds often need to be adjusted.
- Stay focused on the benefits when you feel frustrated.





How Does GDMT Help?

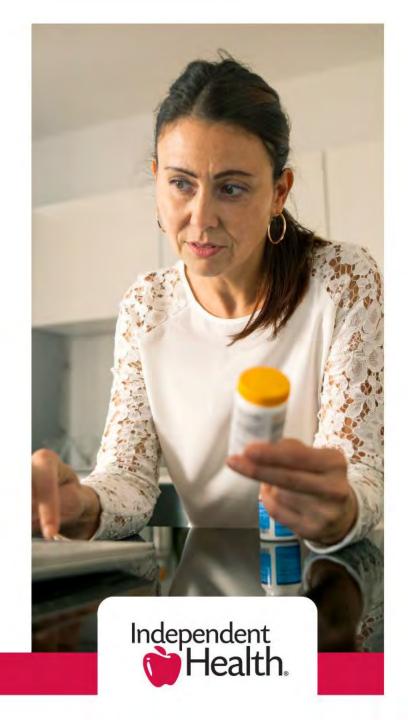
- Improves heart function.
- Decreases risk of hospitalization.
- Improves quality of life by decreasing heart failure symptoms and slows the progression of the disease.
- Addition of all 4 "pillars" decreases risk of death by up to 74%.
- The higher the doses of the medications, the bigger the benefit.
- Taking all 4 medications can add years to your life!





What To Ask Your Doctor & Pharmacist

- Am I on the best medications for heart failure?
- What side effects should I expect from the medication?
- How often do I need to get blood work done?
- Are there any medications I should avoid?
- What time of day should I take this medication?
- Should I take this medication with food?



GDMT Devices & Specialty Care

- In addition to the medication guidance, GDMT gives providers direction on devices and specialty care options that research has shown to have benefit to heart failure patients with reduced ejection fraction.
- Your healthcare team will discuss if appropriate for your situation.
- GDMT medication guidelines are the first line of treatment for HFrEF.



In this presentation you learned:

- √What GDMT is.
- √Who it is for.
- ✓ What the 4 Pillars of GDMT are.
- √How it can help.
- √What to ask your doctor and pharmacist.
- √Your Heart Failure Program RN & Team Pharmacist are available to help you.

We're Here For You

 To discuss any of the information contained in this presentation, contact your

Care For You Heart Failure Program Nurse

• Thank you for letting us be a part of your Healthcare Team.

