

Congestive Heart Failure Clinical Pathway

Introduction

Welcome to GLIN's CHF Resource Guide, an all-in-one solution to assist you in effectively managing Congestive Heart Failure. It includes medication therapy, pharmacy resources, care navigation, care management, and HCC coding tools.



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AHA Class	NYHA Classification	HCC Code	Treatment	
A: At Risk for CHF (DM2, HTN, HLD, Fam Hx)	N/A	N/A	 Control BP ≤ 130/80 Diabetics: SGLT-2 Avoid cardiotoxins 	
B: Asymptomatic/Pre CHF (Hx of MI, cardiomyopathy)	NYHA I: No limits to activity	Code: 150.9	LVEF ≤ 40: • ACE/ARB • Beta Blocker	
C: Symptomatic CHF	NYHA II: Ordinary activity causes SOB	LVEF ≤ 40: Heart failure with reduced ejection fraction, NYHA II/III Code: I50.2	 LVEF ≤ 40: ARNi Mineralocorticoid Receptor Antagonist SGLT-2i Beta Blocker Black pt: Hydralazine and Isosorbide Mononitrate 	
	NYHA III: Less than ordinary activity causes SOB	LVEF ≥ 50: Heart failure with preserved ejection fraction, NYHA II/III Code: I50.3	LVEF ≥ 50: • SGLT-2i • Mineralocorticoid Receptor Antagonist LVEF ≤ 35: • ICD Diuresis: Loop diuretics	
D: Refractory CHF	NYHA IV: Cannot do any activity without SOB	Refractory End Stage Code: I50.84	 Mechamical circulatory support (LVAT) Consider cardiac transplant Palliative Care 	

ARNI: Entresto (do NOT check BNP on Entresto)

 ${\tt Beta\ Blockers: Carvedilol, Metoprolol\ SUCCINATE, Bisoprolol\ ONLY}$

MRA: Spironolactone/Eplerenone (for GRF>30, K <5)

SGLT-2: ONLY Empagliflozin (Jardiance) and Dapagliflozin (Farxiga) have been studied.



CHF Guideline Directed Medication Therapy Target Dosing

Drug	Initial Daily Doses(s)	Target Doses(s)	Mean Doses Achieved in Clinical Trials	References
ACEi				
Captopril	6.25 mg 3 times daily	50 mg 3 times daily	122.7 mg total daily	19
Enalapril	2.5 mg twice daily	10-20 mg twice daily	16.6 mg total daily	3
Fosinopril	5-10 mg once daily	40 mg once daily	N/A	
Lisinopril	2.5-5 mg once daily	20-40 mg once daily	32.5-35.0 mg total daily	17
Perindopril	2 mg once daily	8-16 mg once daily	N/A	
Quinapril	5 mg twice daily	20 mg twice daily	N/A	
Ramipril	1.25-2.5 mg once daily	10 mg once daily	N/A	
Trandolapril	2.5-5 mg once daily	20-40 mg once daily	32.5-35.0 mg total daily	
ARB				
Candesartan	4-8 mg once daily	32 mg once daily	24 mg total daily	20
Losartan	25-50 mg once daily	50-150 mg once daily	129 mg total daily	18
Valsartan	20-40 mg once daily	160 mg twice daily	254 mg total daily	21
ARNi				
Sacubitril-valsartan	49 mg sacubitril and 51 mg valsartan twice daily (therapy may be initiated at 24 mg sacubitril and 26 mg valsartan twice daily) once daily	97 mg sacubitril and 103 mg valsartan twice daily	182 mg sacubitril and 193 mg valsartan total daily	22
Beta Blocker				
Busoprolol	1.25 mg onces daily	10 mg once daily	8.6 mg total daily	1
Carvedilol	3.125 mg twice daily	25-50 mg twice daily	37 mg total daily	23
Carvedilol CR	10 mg once daily	80 mg once daily	N/A	
Metoprolol succinate extended release (metoprolol CR/XL)	12.5-25 mg once daily	200 mg once daily	159 mg total daily	11
Mineralocorticoid Recep	tor Antagonists			
Spironolactone	12.5-25 mg onces daily	25-50 mg once daily	26 mg total daily	6
Eplerenone	25 mg once daily	50 mg once daily	42.6 mg total daily	13
SGLT2i				
Dapagliflozin	10 mg onces daily	10 mg once daily	9.8 mg total daily	8
Empagliflozin	10 mg once daily	10 mg once daily	NR	13



Reference: 2022 AHA/ACC/HFSA guideline for the management of heart failure. professional.heart.org. (2022, April 1). Retrieved October 9, 2022, from-https://professional.heart.org/en/science-news/2022-guideline-for-the-management-of-heart-failure#:~:text=Guideline%2Ddirected%20medical%20 therapy%20(GDMT, a%20team%20specialized%20in%20HF

Selected Prescription Medications That May Cause or Exacerbate HF

Drug or Therapeutic Class	Exacerbates Underlying Myocardial Dysfunction	Magnitudes of HF Induction or Precipitation	LOE for HF Induction or Precipitation	Possible Mechanism(s)	Onset
COX, nonselective inhibitors (NSAIDs)	X	Major	В	Prostaglandin inhibition leading to sodium and water retention,	
COX, selective inhibitors (COX-2 inhibitors)	Х	Major	В	increased systemic vascular resistance, and blunted response to diuretics	Immediate
Thiazolidinediones	X	Major	Α	Possible calcium channel blockade	Intermediate
Saxagliptin	×	Major	Α	Unknown	Intermediate to delayed
Alogliptin	×	Major	Α	Unknown	Intermediate to delayed
Flecainide	×	Major	Α	Negative inotrope, proarrhythmic effects	Immediate to intermediate
Disopyramide	×	Major	В	Negative inotrope, proarrhythmic effect	Immediate to intermediate
Sotalol	X	Major	А	Proarrhythmic properties, beta blockade	Immediate to intermediate
Dronedarone	×	Major	Α	Negative inotrope	Immediate to intermediate
Alpha-1 Blocker					
Doxazosin	×	Moderate	В	Beta-1-receptor stimulation with increases in renin and aldosterone	Intermediate to delayed
Diltiazem	X	Major	В	Negative inotrope	Immediate to intermediate
Verapamil	×	Major	В	Negative inotrope	Immediate to intermediate
Nifedipine	×	Moderate	С	Negative inotrope	Immediate to intermediate
Complete table can be viewed at: https://www.ahajournals.org/doi/full/10.1161/cir.0000000000000426					

COX indicated cyclo-oxygenase

HF, heart failure

LOE, Level of Evidence

 ${\sf NSAID, nonsteroidal\ anti-inflammatory\ drug}$

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GLIN Pharmacy Team

What can they do?

Provide comprehensive medication management services to patients

- Pharmacist-led medication titration recommendations
- Assistance with therapeutic drug monitoring
- Assess barriers to care affecting adherence to medications
 - √ Cost
 - $\sqrt{}$ Transportation issues
 - $\sqrt{}$ Side effects

Medication reconciliation post-hospital follow-up for complex patients

 Looking at all meds to ensure therapies are appropriate, not just ones adjusted during admission

Pharmacy Phone Number (716) 800-CARE (2273) OPT. 4 Work with the GLIN pharmacist in your office to develop an individualized referral pathway

Pharmacy Email pharmacy@glin.com



Patient Outreach Resources

Care Navigation/Post-Acute Care

 $\sqrt{}$ Post-Acute Care is a collaborative effort comprised of network hospitals, physicians, skilled nursing facilities (SNF), and community services focused on our patients and their experience after an acute hospital stay.

 $\sqrt{\ }$ If you have a patient or a family member in need of support, or your practice would like assistance coordinating post-acute services, please (716) 800-CARE (2273) OPT. 5

Care Management

 $\sqrt{}$ The care management team ensures patients are getting comprehensive, patient-centered care for all aspects of their health. Understanding the underlying dynamics of their patient's health, including social aspects, allows the care managers to develop care coordination, help minimize hospital visits, and increase patient awareness to self-manage their symptoms.

 $\sqrt{}$ If you have a patient in need of support, or your practice would like assistance coordinating support and services, please (716) 800-CARE (2273) OPT. 3







For more information, call (716) 304-1214 or email info@pathwaysPCP.org. Referrals can be faxed to (716) 731-4579



Great Lakes Integrated Network

Nutritional Services

GLIN: GPPC Nutrition Team

(716) 800-CARE (2273) OPT 5

(716) 631-8408

* Telehealth is available.

Kaleida Health

(716) 859-2821 (BGMC)

(716) 586-3664 (MFSH)

(716) 586-3019

www.kaleidahealth.org

Buffalo General Medical Center (BGMC) 100 High Street Buffalo, NY 14203

> Millard Fillmore Suburban Hospital (MFSH) 1540 Maple Road Williamsville, NY 14221

Lifestyle Nutrition WNY, PLLC

(716) 222-0297

(716) 794-9466

www.lifestylenutritionwny.com

Amherst:

1306 Sweet Home

Clarence:

9097 Main Street

Niagara Falls:

10175 Niagara Falls Blvd

Orchard Park:

3065 Southwestern Blvd. Suite 102

Williamsville:

30 North Union Rd, Suite 101

* Telehealth is available.

Custom Dietetics, P.C.

(716) 626-7415

(716) 632-0389

www.customdietetics.com

info@customdietetics.com

Williamsville: 2801 Wehrle Drive, Suite 4 Williamsville, NY 14221

* Telehealth is available

Does not accept: Wellcare, BCBS Medicaid, BCBS Essential Plans

Personalized Health Nutrition, PLLC

(716) 710-7022

*Diabetes/Pre-Diabetes **Nutrition Counseling Only**

(716) 710-7022

www.phnutritiondiabetes.com/visit-us

Amherst:

6000 N. Bailey Ave, Suite 1D

Orchard Park

3675 Southwestern Blvd, Suite 100 3671 Southwestern Blvd, Suite 101

West Amherst:

3950 East Robinson Rd, Suite 207

West Seneca:

1026 Union Road

Williamsville:

1150 Youngs Rd, Suite 104

300 International Drive, Suite 125

AMS Nutrition Counseling, PLLC

(716) 266-6056

(716) 332-6412

www.amsnutritioncounseling.com

amy@AMSnutritioncounseling.com

Lockport: 6411B Dysinger Road

Does not accept: BCBS Medicaid, BCBS Child Health Plus Plans and Healthier Life Plans

Things to consider:

NYS Medicaid and Fidelis do not cover any dietician visits

Only Medicare patients with diagnoses of CKD (stage 3 through stage 5) or diagnosis of diabetes are covered for dietitian services
 Referrals may or not be needed based on the specific payer, so referrals would be

suggested to streamline patient scheduling with a dietitian



CHF HCC Coding Resources

For further questions, please reach out to coding@glin.com

- I50.x codes represent Heart Failure HCC codes. All the I50 codes have the same weight, meaning that differentiating I50.2 vs I50.3 (HFrEF vs HFpEF) DOES NOT CHANGE the Per Member Per Month reimbursement
- However, specificity can have an impact on how we treat our patients, so some degree of specificity is necessary

Diagnoses	HCC Codes	Considerations
Asymptomatic Heart Failure (AHA B)	150.9	Generic Heart Failure code
Heart Failure with reduced Ejection Fraction	150.2	
Heart Failure with preserved Ejection Fraction	150.3	



CHF HCC Coding Resources

Supporting Documentation for Risk Adjustment

MEAT is an acronym to help aid in defining what supports a diagnosis in the medical record. Only one of these elements need to be present with a diagnosis to support it within the medical record.

MONITOR

signs, symptoms, disease progression, disease regression

EVALUATE

test results, medication effectiveness, response to treatment

ASSESS/ADDRESS

ordering tests, discussion, review records, counseling

TREAT

medications, therapies, other modalities

CHF Examples of Supporting Documentation (MEAT)

Where should MEAT be located in the medical record? Assessment/Plan

MONITOR

✓ "Patient reports shortness of breath with activity or when lying down, Swelling in the legs, ankles, and feet, weight gain, reduced ability to exercise, irregular heartbeat, chronic cough, and progressive fatigue and weakness."

EVALUATE

- ✓ "On physical Exam: findings of Lower extremity edema, crackles at the lung bases, JVD, gallop."
- ✓ "The echocardiogram, BNP, ECG, Stress test, and CMP results were as follows: document findings."
- ✓ "Patient improved symptoms after diuretic therapy."

ASSESS/ADDRESS

- ✓ "Due to patient symptoms and physical exam findings the following was ordered: Echo, Chest X-ray BNP, ECG, Stress test, CMP"
- "Patient advised to follow a low sodium diet, and to monitor daily weights. Advised to call office if experiencing shortness of breath on exertion, weight gain of more than 2 lbs. in two days or 5 lbs. in one week, increased weakness or fatigue, worsened cough, inability to lie flat or using more pillows to sleep, and worsened leg swelling."

TREAT

✓ "HFrEF: Patient most recent EF ≤ 40. Patient on QUAD therapy Mineralocorticoid Receptor Antagonist, Angiotensin Receptor Neprilysin inhibitor, SGLT-2, and Beta Blocker. Patient to continue on diuretic therapy"



CHF HCC Coding Resources

CHF Macro Examples

✓ .HFrEF

New onset Symptomatic (Symptoms) Heart failure with reduced ejection fraction evidenced by EF less than 40%. Start pharmacological management with Jardiance, Entresto, Spironolactone, Metoprolol succinate. Discussed watching salt intake and monitoring daily weights. Advised to call us if weight increases by 2 lbs. in two days or 5 lbs. in a week. Diuresis with Lasix.

✓ .HFpEF

New onset Symptomatic (Symptoms) Heart failure with preserved ejection fraction evidenced by EF greater than 50%. Start pharmacological management with Jardiance and Spironolactone. Discussed watching salt intake and monitoring daily weights. Advised to call us if weight increases by 2 lbs. in two days or 5 lbs. in a week. Diuresis with Lasix.



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For additional questions, please reach out to your assigned Practice Transformation Consultant.

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