

Agenda

- Heart Failure codes/common missed codes Kiersten Kinchen, Lead, Clinical Documentation and Coding Accuracy
 Educator
- Village MD Heart Failure protocols- Zenobia Brown, MD SVP Clinical Operations
- Heart Failure Medical Economics- Vinod Shenai Senior Director, Healthcare Analytics
- Q &A





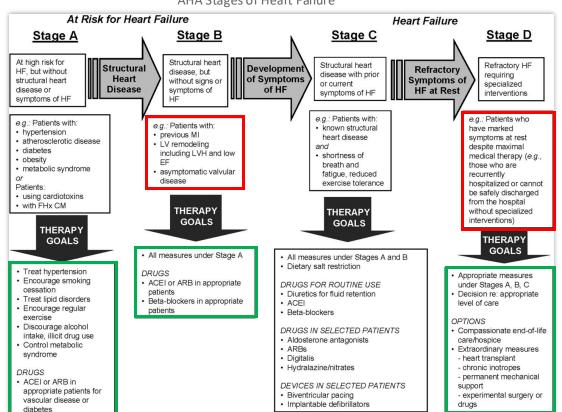
Documentation and AHA Stages of Heart Failure

Documentation

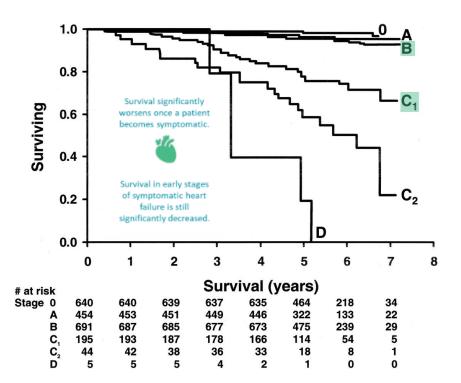
Documentation			
Stages	Definition & Code		
Stage A: At Risk	At risk for HF but without symptoms, structural heart disease, or cardiac biomarkers of stretch or injury.		
	ICD- 10	Z91.89, Other specified personal risk factors	
Stage B: Pre-HF	No symptoms or signs of HF and evidence of 1 of the following: Structural heart disease Evidence for increased filling pressures Patients with risk factors and increased BNP or persistently elevated troponin in the absence of competing diagnoses resulting in such biomarker elevations.		
	10	150.9, Heart failure	
Stage C: Symptomat	Structural heart disease with current or previous symptoms of HF.		
ic	ICD- 10	150.*, Heart failure (by type as diastolic or systolic)	
Stage D: Advanced	life ar	ed HF symptoms that interfere with daily and with recurrent hospitalizations despite apts to optimize guideline-directed medical py.	
	ICD- 10	150.84, End stage heart failure	

VillageMD*

AHA Stages of Heart Failure



Why Early Detection of Heart Failure Matters



Reference:

1.https://www.sciencedirect.com/science/article/pii/S2213177916302049

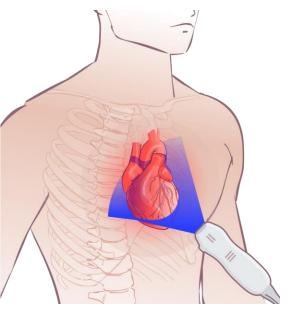
- For example, HFpEF is found in 20%-25% of people with diabetes, he pointed out, and the American Diabetes Association recommends annual screening for heart failure in these patients.
- Without screening, HFpEF can be missed. "The presentation can be very subtle in comparison with heart failure with reduced ejection fraction, where people have a high burden of illness," he explained. "In HFpEF, symptoms often overlap with the experience of people over 50-60 years of age who don't actively exercise — fatigue, shortness of breath with exertion, peripheral edema — particularly if they are also overweight."
- The number one critical thing in primary care is a high index of suspicion and a low threshold for screening, Skolnik said.

Reference:

1. https://www.medscape.com/viewarticle/turning-point-heart-failure-2025a10004wx?form=fpf



Heart Failure: Screening Criteria



Transthoracic Echo screening for HF

- Patients with no previous diagnosis of HF at increased risk
- No Echocardiogram performed in the past 3 years

Any of the following:

- Cardiac murmur
- Abnormal ECG
- History of CAD or MI
- Elevated BNP or ProBNP*3
- Cardiac Arrhythmia

Identify At-Risk patients with any two or more of the following risk factors:

- Hypertension
- PVD
- Diabetes
- Hypertriglyceridemia
- BMI > 35

- American College of Cardiology Foundation Appropriate Use Criteria Task Force; American Society of Echocardiography; American Heart Association; ACCF/ASE/AHA/ASNC/HFSA/HRS/SCAI/SCCM/SCCT/SCMR 2011 Appropriate Use Criteria Task Force, American Society of Echocardiography, American Heart Association, American Society of Nuclear Cardiology, Heart Failure Society of America, Heart Rhythm Society, Society for Cardiovascular Angiography and Interventions, Society of Citical Care Medicine, Society of Cardiovascular Computed Tomography, Society for Cardiovascular Magnetic Resonance American College of Chest Physicians. J Am Soc Echo cardiogr. 2011;24(3):229-267. doi:10.1016/jecho.2010.12.008
- 2. Yancy CW, Jessup M, Bozkurt B, et al. 2013 ACCF/AHA guideline for the management of heart failure: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. JAm Coll Cardiol. 2013;62(16):e147-e239. doi:10.1016/j.jacc.2013.05.019
- 3. Gallagher J, Watson C, Campbell P, Ledwidge M, McDonald K. Natriuretic Peptide-based Screening and Prevention of Heart Failure. Card Fail Rev. 2017;3(2):83-85. doi:10.15420/cfr.2017:20:1



^{*}There is evidence for obtaining a screening BNP or ProBNP in at-risk individuals

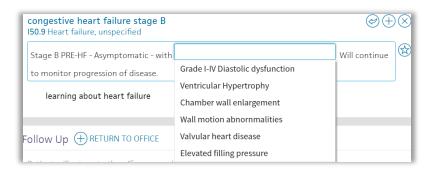
Stage B HF

PER AHA DX:

Stage B Heart Failure - "PRE-HF" - 150.9

No Symptoms (prior or current) with ANY of the below findings on ECHO:

- Grade I-IV Diastolic Dysfunction
- Ventricular Hypertrophy
- Chamber wall enlargement
- Wall motion abnormalities
- ≥ Moderate Valvular disease
- Elevated filling pressures
- Reduced Ejection Fraction





Although stage B heart failure is sometimes described as "pre-heart failure," stage B heart failure is assigned code 150.9 (heart failure, unspecified) in the ICD-10-CM classification.

- Failure, failed
 - neart (acute) (senile) (sudden)
 - a stage B I50.9 ★ 60 see also Failure, heart, by type as diastolic or systolic
 - 9. Diseases of the circulatory system (100-199)

130-152 Other forms of heart disease (130-152)

150 Heart failure

[50.9 Heart failure, unspecified [60]







5859 W. Talavi Blvd. STE 100 Glendale, AZ 85306 Ph: 602-298-7777 Fx: 623-930-6050 www.phoenixheart.com





ECHOCARDIOGRAPHIC REPORT

Patient: Height:61 Exam Date:04/07/2025 10:06 AM Sex:Female Weight:220 MRN #: DOB: 11/20/1940 BSA:1.97 m²

Ordering:Sturdivant, Angela MD Referring:Sturdivant, Angela MD

ICD/Indication:110 Hypertension

Exam Quality: This was a technically adequate study

Conclusions

B.P.: / (mmHg)

- There was no regional wall motion abnormalities noted. Based on the findings above, the patient
 meets structural and/or hemodynamic criteria for Stage B Heart Failure. There is evidence of impaired
 relaxation consistent with Grade I diastolic dysfunction with normal left atrial pressure. The left
 ventricle is thickened in a fashion consistent with mild concentric hypertrophy. Left ventricular ejection
 fraction was normal, estimated in the range of 55 to 60%.
- 2. There is evidence of mild sclerosis of the aortic valve.
- 3. There is evidence of mild to moderate mitral regurgitation.
- 4. There is evidence of mild tricuspid regurgitation.
- 5. The patient was in normal sinus rhythm.

Findings

Left Ventricle: The left ventricular cavity size appears normal. The left ventricle is thickened in a fashion consistent with mild concentric hypertrophy. Left ventricular ejection fraction was normal, estimated in the range of 55 to 60%. There is evidence of impaired relaxation consistent with Grade I diastolic dysfunction with normal left atrial pressure. There was no regional wall motion abnormalities noted. Based on the findings above, the patient meets structural and/or hemodynamic criteria for Stage B Heart Failure.

Right Ventricle: The right ventricular cavity size is moderately dilated. The right ventricular systolic function

Left Atrium: The LA Volume index is 47.27 ml/m2. The left atrium is moderately dilated. There is no visible interatrial septum short.

Right Atrium: The right atrium is mildly dilated.

Aortic Valve: The structure of the aortic valve is tricuspid. There is no evidence of aortic stenosis. There is no evidence of aortic regurgitation. There is evidence of mild sclerosis of the aortic valve.

Mitral Valve: There is no mitral stenosis. There is evidence of mild to moderate mitral regurgitation. There is evidence of mild sclerosis of the mitral valve

Patient: DOB:11/20/1940

Exam Date:04/07/2025 10:06 AM

Page 2 of 3

Pulmonic Valve: The pulmonic valve appears normal in structure and function. There is evidence of trace (trivial) pulmonic regurgitation. There is no evidence of pulmonary stenosis.

Tricuspid Valve: The SPAP is 34.2799987792969 mmHg. The tricuspid valve appears normal in structure and function. There is evidence of mild tricuspid regurgitation. There is no evidence of tricuspid

stenosis. Estimated peak SPAP is in the range of 29 - 36. Estimated peak RAP is in the range of <5.

Pericardium: The pericardium appears normal. There is no evidence of pericardial effusion.

Aorta: The ascending aorta is dilated at 3.84 cm with an index of 1.95 cm/m2.

Pulmonic Artery: Pulmonary artery appears normal.

Venous: There is evidence of normal respirophasic changes (> 50% collapse) of the inferior vena cava. There

is a normal appearing inferior vena cava without evidence of thrombus.

ECG: The patient was in normal sinus rhythm. Sonographer: SOLIS, ANALOU RCS, RV5

Electronically Signed by: RAJUL PATEL, MD on 4/7/2025 11:44:08 AM

Measurements:

45.64 mL	
78.97 mL	
78.97 mL	
57.84%	
65.73%	
79.25 mL	
118.34 mL	
118.34 ml.	
33.41 ml	
39.37 mL	
39.37 ml	
457.cm	
6.71 cm	
93.11 ml	
29.89 cm2	
24.52 cm2	
47.27	
47.27	
m/m2	

Left Ventricle:	
IVSd 2D	131cm
LVPWd 2 D	1.27 cm
LVIDd 2D	422cm
LVIDs 20	2.94 cm
FS (Teich) M Mod	le 30.17%
LVs Length A4C	7.12 cm
(Vd Length A4C	8.54 cm
LVOT	and State of
LVOT Diam	2:01 cm
LVOT VTI	32.67 cm
LVOT Vmax	1.23 m/s
LVOT Vmean	.0.01 m/s
LVOT Max PG	6 mm/Hg
LVOT Mean PG	3.11 mm/H
LVOTSV	103.38 ml
LVOTSI	52.48 ml/m
Right Ventricle:	
RVSP	31.28 mmHg
RVIDd 2D	4.38 cm
RVOT VTI	17.69 cm
RVAWd (2D)	crn

3 mir

3.84 cm 1.03 m/s

4.22 mm/Hg

RA Pressure

Aorta:

Dao Max PG

1000000000	int Vena Cava/Hep	Vens Typicagousing
cm	IVC Diam	1.69 cm
cin		
cm	Mitral Valve:	AND THE PROPERTY.
cm	MV Vmean	0.48 m/s
7%	MV Mean PG	1.16 mmHg
cm	MV VII	32.42cm
cm	MV Max PG	43mmHg
-	MV Peak A Vel	101m/s
00000000	MV Peak E Vol	0.86 m/s
	MV E/A	0.85
n-	MVA (VTI)	319cm²
\$	MV Dec Time	ZI5.3ms
5		
ig	MV Dec Slope	0.04 mi/s ³
n/Hg	MVA Planimetry	cm2
ml	MV Vmax	104m/s
/m2	MV A Dur	152.24 ms
25500	Aprilic Valve	NAME OF STREET
8	AV Vmax	1.75 m/s
HR	AV Vmean	1 m/s
em .	AV Max PG	12.26 mm/Hg
	AV Mean PG	4.75 mm/Hg
Water St	AV VTI	40.8 cm
mHg	AVA (Vmax)	2.21 cm2
-	AVA (YTI)	2.53 cm2

Inf Views Cours (Nam Views

Kegurg Severity	MIN	
TR Vmax	2.8 m/s	
TR Max PG	31.28 mm/H	
RVSP	34.28 mm/H	
SPAP	34.28 mm/H	
Pulmonic Valve		
PV Vmax	1.11 m/s	
PV Vmean	0.73 m/s	
PV.Max PG	4.98mmHg	
PV Mean PG	2.39 mmHg	
RVOT Vmean	0,41m/s	
RVOT Vmean PG	0.83mmHg	
PV (VTI)	29.89 cm	

Tricuspid Valve Stenosis Severity None





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ECHOCARDIOGRAPHIC REPORT

Patient: Height:69 Exam Date:04/07/2025 07:13 AM B.P.: 152 / 90 (mmHg)

Sex:Male Weight:252 MRN#:

DOB: 04/15/1963 BSA:2.28 m2 Ordering:UnAvailable, Referring :UnAvailable,

ICD/Indication:110 Hypertension Exam Quality: This was a technically adequate study

Conclusions

- 1. There was no regional wall motion abnormalities noted. Based on the findings above, the patient meets structural and/or hemodynamic criteria for Stage B Heart Failure. There is evidence of impaired relaxation consistent with Grade I diastolic dysfunction with normal left atrial pressure. The left ventricle is thickened in a fashion consistent with mild concentric hypertrophy. Left ventricular ejection fraction was normal, estimated in the range of 55 to 60%.
- 2. There is evidence of physiological regurgitation in the tricuspid valve.
- 3. The patient was in normal sinus rhythm.

Findings

Left Ventricle: The left ventricular cavity size appears normal. The left ventricle is thickened in a fashion consistent with mild concentric hypertrophy. Left ventricular ejection fraction was normal, estimated in the range of 55 to 60%. There is evidence of impaired relaxation consistent with Grade I diastolic dysfunction with normal left atrial pressure. There was no regional wall motion abnormalities noted. Based on the findings above, the patient meets structural and/or hemodynamic criteria for Stage B Heart Failure.

Right Ventricle: The right ventricular cavity size appears normal. The right ventricular systolic function

Left Atrium: The LA Volume Index is 40.85 ml/m2. The left atrium is mildly dilated. There is no visible interatrial septum shunt.

Right Atrium: The right atrial size appears normal.

Aortic Valve: The structure of the aortic valve is tricuspid. There is no evidence of aortic stenosis. There is no evidence of aortic regurgitation.

Mitral Valve: The mitral valve is normal in structure and function. There is no mitral stenosis. There is evidence of trivial (trace) mitral regurgitation.

Pulmonic Valve: The pulmonic valve appears normal in structure and function. There is evidence of physiological regurgitation in the pulmonary valve. There is no evidence of pulmonary stenosis, Patient: MRN: DOB:04/15/1963

Exam Date:04/07/2025 07:13 AM

Page 2 of 3

Tricuspid Valve: The tricuspid valve appears normal in structure and function. There is evidence of physiological regurgitation in the tricuspid valve. There is no evidence of tricuspid stenosis. Estimated peak RAP is in the range of <5.

Pericardium: The pericardium appears normal. There is no evidence of pericardial effusion.

Aorta: The ascending aorta is dilated at 3.90 cm with an index of 1.71 cm/m2.

Pulmonic Artery: Pulmonary artery appears normal. Unable to obtain RVSP due to insufficient tricuspid regurgitation jet.

Venous: There is evidence of normal respirophasic changes (> 50% collapse) of the inferior vena cava. There is a normal appearing inferior vena cava without evidence of thrombus.

ECG: The patient was in normal sinus rhythm.

Sonographer: SOLIS, ANALOU RCS, RVS

Electronically Signed by: RAJUL PATEL, MD on 4/7/2025 8:00:14 AM

Measurements: Engage and the Property of the Control of the Contr

ra thucuou (spli	SOUTH PROPERTY OF	
SV (Teich) 2D	104.54	
	mL	
5V (A4C)	99 mL	
SV(Med-Sim)	99 mL	
EF (Teich) 2D	64.16%	
EF (A4C)	59.83%	
EDV (Telch) 2D	162.94mL	
EDV (A4C)	165,47 mL	
EDV(Mod-Sim)	165.47 ml	
ESV (Teich) 2D	58,4 mi.	
ESV (A4C)	.66.48 m/L	
ESV(Mod-Sim)	66.48 mL	
Left Atrium:	and the state	
LA Dimen MMode	de 5.28 cm	
LA Length A4C	5.97 cm	
LA ESV(A-L) A4C	98.15 ml	
LA Area 2C	24.71 cm2	
LA Area 4C	26.52 cm2	
LA Volume Index	40.85	
LA ESV Index (A-L)	40.85	
	mi/m2	

Left Ventricle:	1.Z3cm		
LVPWd2D		1.37cm	
LViDd 2D		5.74cm	
LVIDs 2D	_	3,71.cm	
FS (Teich) M Mod	de	35,47%	
LVs Length A4C		7.89cm	
LVd Length A4C		9.5 cm	
		- Control of the Cont	
LVOT	105%		
LVOT Diam		27 cm	
LVOT VTI 25		.4 cm	
LVOT Vmax	VOT Vmax 2		
LVOT Varieum	0.	01 m/s	
(VOT Max PG 6.		69 mm/Hg	
		21 mm/Hg	
		3.03 ml	
LVOT SI 45		5:19 ml/m2	
Right Ventriciet	3(63)	W-16-5-56	
RVIDG 2D		3.56 cm	
RVOTVT		22.96 cm	
RVAWd (2D)		cm	

Description of the second	Company of the Compan
Right Atrium:	14800
'RA Pressure'	3 mm

Aorta	STATE SECTION STATES
An Asc Diam	3.9 cm
Dao Vmax	0.95 m/s
Dao Max PG	3.57 mm/Hg

Mitral Valves	
MV Vmean	0.47 m/s
MV Mean PG	1.05 mmHg
MVVTL	32.15 cm
MV Max PG	3.4 mmHg
MV Peak A Vel	0.95 m/s
MV Peak E Vel	0.66 m/s
MV E/A	0.69
MVA (VTI)	3.2 cm ²
MV Dec Time	19101 ms
MV Dec Slope	0.03 m/s≥
MVA Planimetry	cm2
MV Vmax	0.92 m/s
MV A Dur	142.72 ms
Aprilic Valve	
AV Vmax	1.53 m/s
AV Vmean	1.01 m/s
AV Max PG	9.31 mm/Hg

mm/Hg

29.74 cm

3.44 cm2

3.46 cm2

AV Mean Po

AV VII

AVA (VTI)

Inf Vena Cava/Hep Veins

ricuspld Valve		
Stenosis Severity	None	
Regurg Severity	Physiological	
R Vmax	2.57 m/s	
IR Max PG	9.88 mm/Hg	
Pulmonic Valve		
PV Vmax	1.39 m/s	
PV Vmean	0.83 m/s	
PV Max PG	7.75 mmHz	

DEm/

1.7mmHg

PV Mean PG

RVCT Vmean





Stage C HF

Diagnose Chronic heart failure as ACTIVE even if they are: Stable, Improved, or Asymptomatic

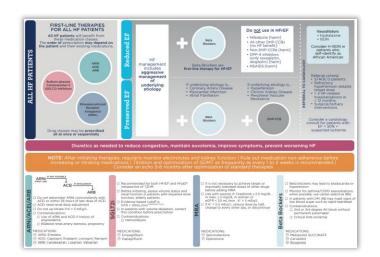
Look at Echocardiograms

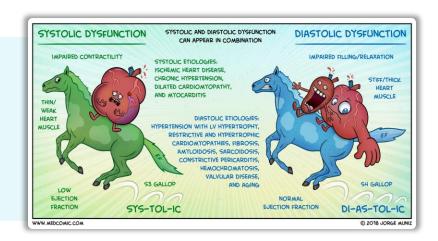
CXR – Cardiomegaly will trigger further investigation

Signs: dyspnea on exertion, Edema, orthopnea, tachypnea, fatigue

Pulmonary Hypertension: start looking @ RVSP >35+ ICD10:I27.20

Cardiomyopathy ICD10: I42.9





Stage C: Symptomatic Heart Failure

Great treatment guidelines for Stage C heart failure are present on the OCMO sharepoint site.

We will provide you all with this link.



Stage D HF / Advanced Heart Failure

Stage D: Advanced Heart Failure

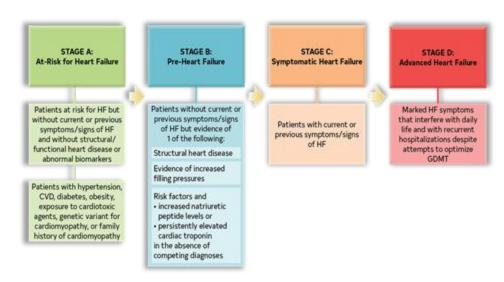
Marked HF symptoms *that interfere with daily life* and with *recurrent hospitalizations* despite attempts to optimize Guideline Directed Medical Therapy (GDMT).

150.84 - End stage heart failure Stage D heart failure



New v28 Adds:

HCC 222 | End Stage Heart Failure

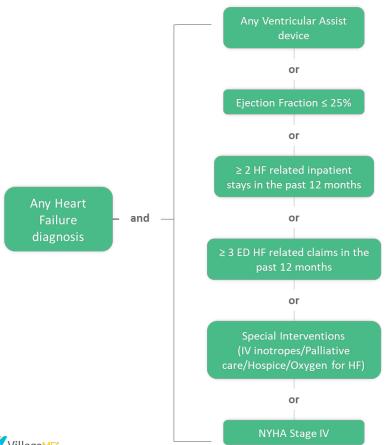




Paul A. Heidenreich. Circulation. 2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines, Volume: 145, Issue: 18, Pages: e895-e1032, DOI: (10.1161/CIR.0000000000001063)



Stage D / End Stage HF Criteria Considered with Clinical Correlation





REMINDER: Making it Clear to the Eyes of Reviewer



Diagnosis

Most specific active vs historical code



Status

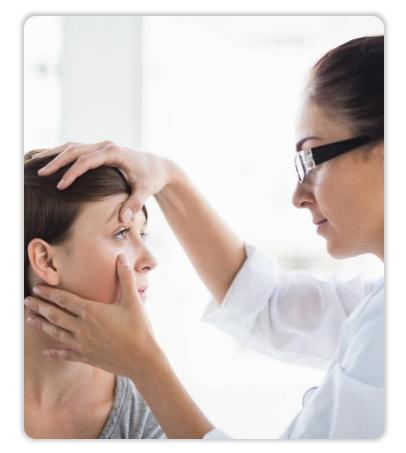
Stable, worsening, improving, new, asymptomatic, compensated, etc.



Plan

Continue X medication, will order X

DSP = MEAT





Thank you for your participation!

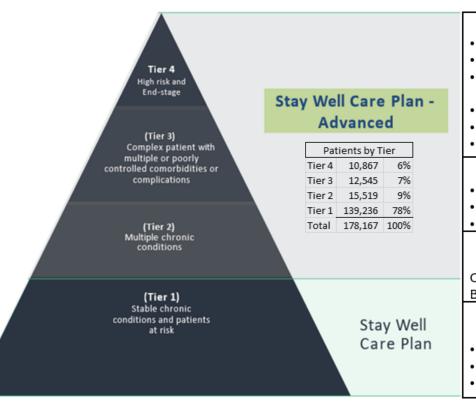








Medical Expense Clinical Strategic Approach and Programming



High Risk Clinical Programs

- Care Management (PCP+)
- High Risk Clinics (VMAC)
- Home Based Primary Care (VMH)/ Palliative Care
- TCM
- **High-Cost Claimants**
- SDOH

Expanded Venues & Tech

- Advanced Analytics / Al for predictive and prescriptive interventions
- RPM
- Hospital at Home

24/7 Meaningful Clinical Response

- Call Us First (Virtual Care Team)
- Same & Next Day Access (VBC Priority Booking)
- Community Paramedicine

Clinical Standards

Disease Specific Guidelines and Adherence

COPD (Q4'24) ACP (Q4'25) CHF(Q2'25) SDOH(Q3'25) Lifestyle/ Wellness (Q3'25)

BH/ Dementia (Q1'26) ESRD (Q2'26)

Stay Well Care Plan

Consistent and Persistent Primary Care

- Visit Follow Up Scheduling
- AWV
- **Engagement & Outreach**

Click to add a footnote

Cadence RPM



Remote Patient/ Physiologic Monitoring

Type of telehealth in which healthcare providers monitor patients outside the traditional care setting using FDA approved digital medical devices, such as weight scales, blood pressure monitors, pulse oximeters, and blood glucose meters. The data automatically collected from these devices are then electronically transferred to providers for care management and intervention if needed.





Forbes

RPM Is The New Standard Of Healthcare Impact of remote patient monitoring on clinical outcomes: an updated meta-analysis of randomized controlled trials

Benjamin Noah, ^{1,2} Michelle S. Keller, ^{1,2,3} Sasan Mosadeghi, ⁴ Libby Stein, ^{1,2} Sunny Johl, ^{1,2} Sean Delshad, ^{1,2} Vartan C. Tashjian, ^{1,2,5} Daniel Lew, ^{1,2,5} James T. Kwan, ^{1,2} Alma Jusufagic, ^{1,2,3} and Brennan M. R. Spiegel ^{M1,2,3,5,6}

Does it work?



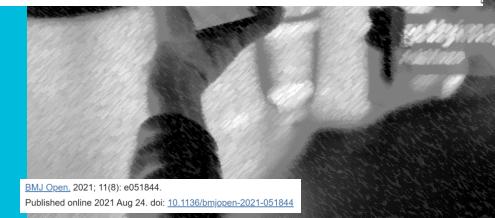
Factors influencing the effectiveness of remote patient monitoring interventions: a realist review

Across a range of RPM interventions 31 factors emerged that impact the effectiveness of RPM innovations on acute care use. These were synthesized into six theories of intervention success:

- (1) targeting populations at high risk;
- (2) accurately detecting a decline in health;
- (3) providing responsive and timely care;
- (4) personalizing care;
- (5) enhancing self-management, and
- (6) ansuring collaborative and coordinated care.



Post-discharge after surgery Virtual Care with Remote Automated Monitoring-1 (PVC-RAM-1) technology versus standard care: randomised controlled trial







IMPLEMENTING GUIDELINES, IMPROVING OUTCOMES & LOWERING COST WITH REMOTE PATIENT CARE

Chris Altchek, Cadence, CEO & Founder

Dr. David I. Feldman, MD MPH, Massachusetts General Hospital, Cadence Medical Advisor

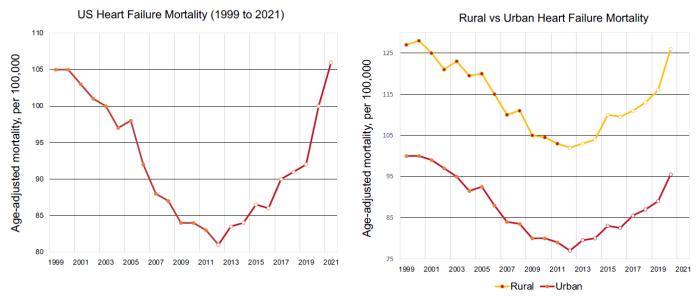
Dr. Marat Fudim, MD MHS, Duke University Medical Center, Cadence Medical Advisor







Heart Failure mortality rates have been on the rise since 2012





ayed, Fudim et al., "Reversals in the Decline of Heart Failure Mortality in the US, 1999 to 2021," JAMA Cardiology (Apr. 24, 2024

VillageMD*

4

Remote Patient Care meets the needs of providers, patients, and health systems

Physicians

- Clinical and administrative support with focus on guidelines and care plan execution
- Reduces burden and pajama time

Patients

- 24/7 access & monitoring from NP-led team
- Easy-to-use devices utilizing cellular networks for maximum connectivity

Health Systems

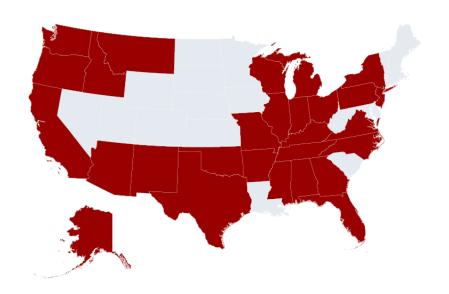
- One EMR integration to minimize overhead
- Financially sustainable in both fee-for-service and value-based settings







Launched in 2021, Cadence is the chronic disease management partner for leading health systems



Select Health System Partners

















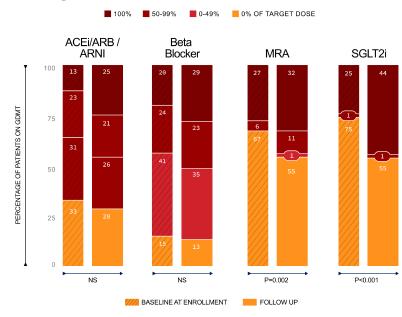






2024 Journal of Cardiac Failure: Leveraging RPM to put Heart Failure guidelines into practice

- 230% increase (from 7% to 23%) in Heart Failure patients achieving all four pillars of GDMT with RPM (n=367 patients)
- % of patients taking ≥50% of target dosage significantly increased for all pillars of GDMT
- Average monthly savings of over \$1,000 per patient due to reduced hospital and post-hospital discharge spending





reraging Remote Patient Monitoring to Effectively Put the Heart Failure Guidelines to Practice; David I. Feldman, MD, MPH; 2024 Ma

9



Results from largest Hypertension Remote Patient Care retrospective analysis in U.S. (pre-published)

n=23,638

RPC patients from 21 states

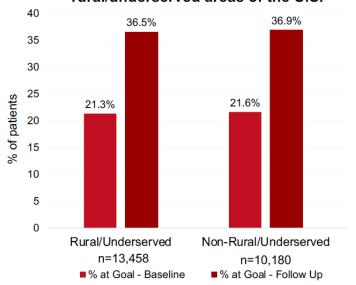
-7/5 mmHg

BP reduction (p<0.001)

70%

Relative increase in % who achieve goal <130/80 mmHg (p<0.001)

Similar clinical outcomes among patients from rural/underserved areas of the U.S.



"Rural" as defined by the Health Resources & Services Administration and Federal Office of Rural Health Pollicy. "Underserved" as defined by the Federal Housing Finance Agency (low-income areas, minority census tracts, and designated disaster areas).





Results from total cost of care & utilization analysis of Remote Patient Care (pre-published)

n=5,872

RPC patients for whom Medicare claims were analyzed at 12 months following enrollment compared to 11,449 patients in a propensity-score matched* control group

\$1,308

Annual total savings per patient (p-value = 0.0026) 27%

Reduction in hospital admissions, driven by reduced hospitalizations for heart failure, cardiac dysrhythmias, sepsis, and stroke (p-value = 0.0002)

^{*} Patients were matched using demographic factors, health status, risk scores, geography (15 states), as well as cost and utilization at baseline



11

Cadence Project Opportunity: Provider adoption is key to improving outcomes for our CHF patients

Opportunity

The Cadence program targets the reduction of Med Ex associated with Chronic Disease. We intend to focus only on Congestive Heart Failure initially as this where the largest opportunity lies for our patient population.

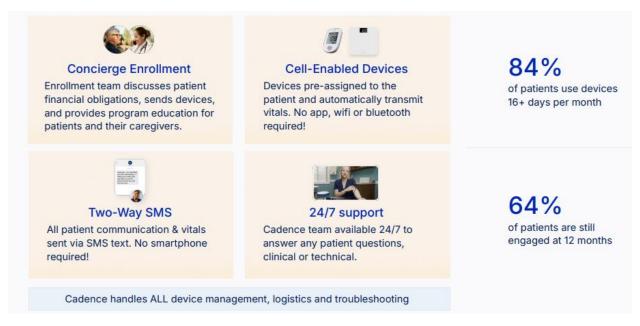
Our average PMPY cost for our VBC patients diagnosed with CHF across our markets range from \$12k for Tier 1&2 patients up to \$35k for Tier 3&4 patients.

	PMPY	ADK	Readmission Rate
Non CHF	\$3,000	227	12.4%
Tier 1&2 CHF	\$12,000	0.4.0	15.8 %
Toer 3&4 CHF	\$35,000	846	21.3 %



Cadence Project Considerations

Village MD has attempted RPM in the past. The implementation of the program was impacted by technical difficulties that prevented the achievement of program goals. The Cadence program has multiple differentiating elements that were not available to us in our internal attempt: The main differentiator is the clinical model of care.





Cadence Project Overview

Background

VillageMD has an urgent need to improve patient outcomes while lowering overall medical expenses. Remote Patient Monitoring (RPM) is designed to manage chronic disease which is a significant medical expense driver. The Cadence RPM program includes:

White Labeled **Medical Group**

Extends the reach of partner providers with a multidisciplinary team led by NPs (supported by MDs, RNs, and MAs) capable of:



Titrating medications



Ordering & reviewing labs



Behavioral & nutritional coaching

Disease-Specific Clinical Protocols

Cadence clinical protocols are based on national society guideline recommendations.



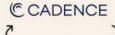






Seamless EMR Integration

Eligible patients easily flagged for physicians to place one-click orders for Cadence. Physicians can access all clinical documentation & patient interactions at any time in their EMR.







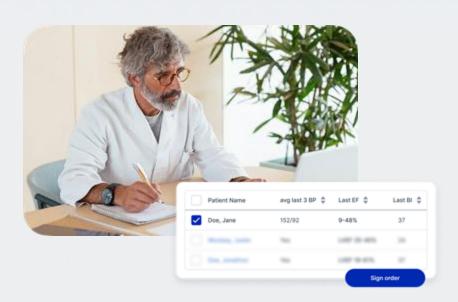




Cadence Panel Athena App



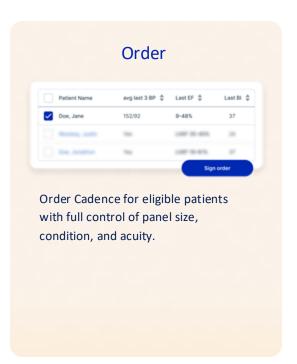




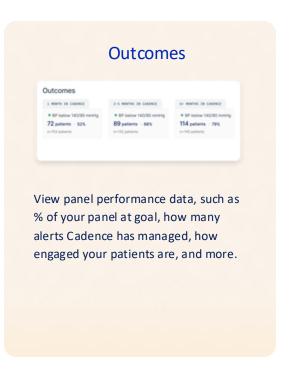
Manage your panel with clear patient status, vital averages, engagement data, and the ability to order for eligible patients.



The Panel app is organized in 3 main sections (tabs): *Order, Patients, and Outcomes.*







CADENCE SOLUTIONS

Escalation Pathways





Cadence manages all escalations according to our *shared protocols: Each* practice has a dedictaed clinical team and escaltion protocols will cater to

provider



- 1. Patient takes an abnormal reading
- 2. Receives SMS message asking them to retake that reading
- 3. Patient retakes the reading, and it is within normal parameters
- = No further action is required



- 1. Patient takes second reading and it remains abnormal
- 2. Patient receives a call from their Cadence Care team
- 3. If intervention is within scope of Clinical Protocols, Cadence clinician takes action, resolves the alert, and updates a clinical note in the EMR
- = No further action is required



- 1. Cadence Care Provider determines immediate action is required after discussing symptoms
- 2. Cadence Care Team contacts Partner physician and/or helps patient to present to appropriate site of care
- 3. Cadence follows up every 24-48 hours until the patient's condition stabilized



Cadence's 24/7 Clinical Team is *saving lives* and *reducing provider* burden

* Sample of 10,000 active patients

11,648

Monthly encounters

5,107 alert calls 6,541 appointments



11,413

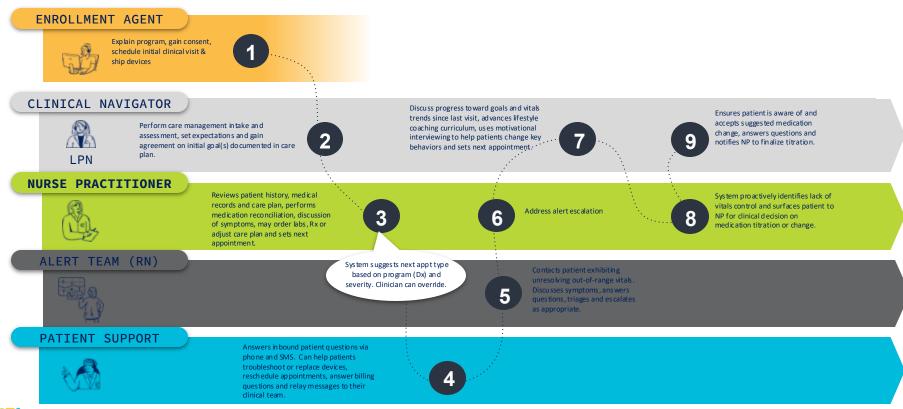
Managed by Cadence

197 escalated to partner physician

38 escalated to ED



Roles & Responsibilities of the Cadence Care Team







2024 REACH Affiliate Heart Failure Data

		All Patients				CHF						
Market	Practice	Member Months	Total PMPM	Total Spend	ADK	Member Months	Prevalence	Total PMPM	Total Spend	% Total Spend	ADK	% Total Admits
Atlanta	Lawrenceville Family Practice, PC	6994	\$1,125	\$7,866,381	198	792	11.3%	\$2,672	\$2,116,496	26.9%	653	37.3%
	Cumberland Women's Health Center, PC	350	\$925	\$323,840	206	27	7.7%	\$182	\$4,915	1.5%	0	0.0%
Detroit	Hayner Internal Medicine Associates	2769	\$875	\$2,423,419	186	446	16.1%	\$1,478	\$658,970	27.2%	350	30.3%
	Emmaus Health Partners	2142	\$801	\$1,715,704	157	182	8.5%	\$1,261	\$229,481	13.4%	330	17.9%
LasVegas	Village Medical Priority Health Group	16466	\$1,232	\$20,279,621	224	4122	25.0%	\$2,093	\$8,628,237	42.5%	439	49.1%
NewHampshire	Derry Medical Center, PA	55738	\$993	\$55,360,841	217	10768	19.3%	\$1,938	\$20,866,055	37.7%	537	47.8%
	Southern NH Internal Medicine Associates, PC	23998	\$1,083	\$25,984,350	220	4341	18.1%	\$2,157	\$9,362,185	36.0%	558	45.9%
Orlando	Meadowcrest	44969	\$1,088	\$48,938,095	244	5789	12.9%	\$2,163	\$12,521,836	25.6%	606	32.0%





Topic ideas for the September meeting?



ACO Operations Team

Jodi Mueller-Cabaluna

Manager, ACO Operations

- Ownership/oversight/signature authority
- Business strategy
- Claims
- Network Contracting
- Primary point of contact

- Team vision, direction, & improvement
- Compliance
- Communication / Education
- Quality monitoring, Improvement and Reporting
- MSSP, EOM Lead

Sapphire Davis Program Coordinator

- Attribution & provider rosters
- Data reporting
- Affiliate Provider Meetings

Courtney Clouser Program Coordinator

- Waivers, Beneficiary
 Enhancements and Incentives
- CAHPS Surveys
- Voluntary Alignment
- Beneficiary Notifications
- Marketing/Websites
- ACO Mailboxes
- Written Notices

Rashida Morgan Project Manager

Health Equity Lead

- Health Equity Data Reporting
- Health Equity Progress
- Community Resources
- Meetings/tasks/timelines
- VBC Board Meetings
- Incentive Bonus Payments
- EOM Lead (Future state)

