# **ARIC**

# HEART FAILURE HOSPITAL RECORD ABSTRACTION FORM

**General Instructions:** 

# The Heart Failure Hospital Record Abstraction Form is completed for all heart failure-eligible cohort hospitalizations. Refer to this form's question-by-question instructions for detailed information on each data item. ID NUMBER: FORM NAME: H F A DATE: 10/08/2021 VERSION: F CONTACT YEAR NUMBER: 0.a. Hospital code number: 0.b. Medical Record Number: 0.c. Date of discharge (for nonfatal case) or death:

SECTION I: SCREENING FOR DECOMPENSATION OR NEW ONSET

Day

Month

HFAF Page 1 of 11

Year

0.d. What was the disposition of the patient on discharge?

Deceased...... D Alive ..... A

Was there evidence of the following conditions?	<u>Yes</u>	No/Not Recorded
a. Increasing or new onset shortness of breath		
b. Increasing or new onset edema		
c. Increasing or new onset paroxysmal nocturnal dyspnea		
d. Increasing or new onset orthopnea		
e. Increasing or new onset hypoxia		
2. Was there evidence in the doctor's notes that the reason for this hospitalization was heart failure?		
3. Is this a cohort participant? (DMS will auto fill with a "Y")		
Did the patient have new onset or progressive symptoms/signs of heart failure:	<u>Yes</u>	No/Not Recorded
a. At the time of admission to the hospital?		
b. During this hospitalization?		
If the response to both item 4a and 4b, is 'No/Not Re	corded', skip	items 5
5. Date of new onset or progression of symptoms/signs known (mm-dd-y	уууу):	
a. If exact date unknown, estimate weeks prior to this hospital	ization:	
<ol> <li>Did the physician's note or discharge summary indicate any of the follower failure? (check all that apply)</li> </ol> Yes No/ Not Remark	0.	fic types of ◀
a. Ischemic cardiomyopathy		
b. Idiopathic/dilated cardiomyopathy		
j. Other specific cardiomyopathy/heart failure	→ Go to iter	n 7
j.1. If other cardiomyopathy, specify		

HFAF Page 2 of 11

# **SECTION II: HISTORY OF HEART FAILURE**

7. Prior to this hospitalization was there a history of any of the following:
Yes No/Not Recorded Unsure
a. Diagnosis of heart failure
b. Prior hospitalization for heart failure
c. Treatment for heart failure
8. Was cardiac imaging performed prior to this hospitalization?  Yes  No/Unk  Go to item 10.
8.a. Lowest Ejection Fraction recorded:
Decreased severely
8. b. Year of lowest ejection fraction (yyyy):
8.c. Type of imaging:
1. MUGA
2. ECHO
3. Cath/LV gram
4. CT
5. MRI 6. Other
7. Unknown

HFAF Page 3 of 11

## **SECTION III: MEDICAL HISTORY**

10. Respiratory	History of? Yes No/NR
<ul> <li>a. Asthma <sup>G</sup></li> <li>b. Chronic bronchitis/COPD <sup>G</sup></li> <li>c. Other chronic lung disease</li> <li>d. Pulmonary embolus</li> <li>e. Coughing, phlegm, wheezing <sup>G</sup></li> <li>f. Sleep apnea</li> </ul>	
11. <u>Cardiovascular</u>	History of? Yes No/NR
a. Angina <sup>G</sup>	
b. Arrhythmia	
1) Atrial fibrillation/atrial flutter	
2) Heart block or other bradycardia	
3) Ventricular fibrillation or tachycardia	
e. Cardiac procedures	
1) CABG	
2) PCI	
3) Valve surgery	
4) Pacemaker	
5) Defibrillator	If Yes, go to item 11j.
<ul><li>g. Coronary heart disease (within year) <sup>G</sup></li><li>h. Coronary heart disease (ever) <sup>G</sup></li></ul>	I res, go to item rij.
j. Hypertension	
k. Myocardial infarction	
Pulmonary hypertension	
m. Peripheral vascular disease	
o. Valvular heart disease	
12. Gastrointestinal / Endocrine	
a. Diabetes	
13. Renal	
a. Dialysis	

HFAF Page 4 of 11

# **SECTION III: MEDICAL HISTORY (continued)**

14. <u>Neurology</u>	<u>History of?</u> <u>Yes</u> <u>No/NR</u>	
a. Stroke/TIA	пп	
b. Depression		
16. Were any of the follo	owing medical problems listed as precipitat	ting factors (i.e. precipitated the onset of this NR
d. Noncompliance v	vith diet	1
e. Noncompliance v		- ]
g. Pneumonia		
j. Angina/Myocardi	al infarction	
k. Atrial fibrillation/fl	utter $\Box$	
CECTION IV. DUVCICA	L EVANA MITAL CIONIC	
SECTION IV: PHYSICA	L EXAM - VITAL SIGNS	
	At hospital admission (or at onset of event)	At hospital discharge (or last recorded)
	(or at oriset or event)	(or last recorded)
17. Blood pressure:	a/ b mr	mHg
18. Heart rate: B, F, N	a. bpm	
40 11 11		
19. Height:	a a.1.	cm/ in (c=cm, i=in)
20. Weight: <sup>F</sup>	a a.1.	lbs/ kg b.
	b.1.	

HFAF Page 5 of 11

SECTION V: DIAGNOSTIC TESTS		
25. Was an electrocardiogram performed during	this hosp	oitalization? Yes No/NR Go to item 27.
26. Did the patient have any of the following EC	G abnor	malities at any time during this hospitalization?
	<u>Yes</u>	No/Not Recorded
c. Atrial fibrillation / atrial flutter <sup>G</sup>		☐——→c.1. On telemetry? Yes ☐ No ☐
e. Left bundle branch block		
f. Ventricular tachycardia		→f.1. On telemetry? Yes  No
<ul><li>27. Was a chest X-ray performed during this hose</li><li>28. Did the patient have any of the following sign</li></ul>		<u> </u>
b. Alveolar/pulmonary edema B, F, N		
c. Interstitial pulmonary edema B, F, N		
d. Cardiomegaly B, F		
e. Cephalization/upper zone redistribution B, N		
g. Bilateral pleural effusion B, F, N		
h. Unilateral pleural effusion F, N		
k. Cardiothoracic ratio ≥ 0.5 <sup>B</sup>		
Congestive heart failure/ Pulmonary vascular congestion		

HFAF Page 6 of 11

# SECTION V: DIAGNOSTIC TESTS (continued)

29. Was a transthoracic echocardiogram per	formed?	Yes ^	No/NR	Go 1	to item 30
If the response to item 29 is YE If the response is No/NR skip it				9d14.;	
First transthoracic echocardiogram performed	d after onse	et or progressi	on of heart fa	ilure.	
a. Date (mm-dd-yyyy):					
b. Ejection fraction: %					
c. Wall thickness: septal:	c.	1. units	(c=cm, m=mm	)	
c.2. posterior:	c.	.3. units	(c=cm, m=mm	)	
d. Record the following if present on trans	thoracic ec	chocardiogram	<u>ı</u> :		
	<u>Mild</u>	<u>Moderate</u>	Severe	<u>None</u>	Present NR
Left ventricular hypertrophy (LVH)					
2. Impaired LV systolic function					
3. Impaired RV systolic function					
4. Aortic regurgitation					
5. Aortic stenosis					
6. Tricuspid regurgitation					
7. Mitral regurgitation					
8. Mitral stenosis					
9. Estimated RVSP/PASP:		mmHg	a. TR jet	velocity:	m/s
10. Pulmonary hypertension					
	<u>Yes</u>	No/Unkno	own/NR		
11. Regional wall motion abnormality					
12. Dilated left ventricle					
13. Dilated right ventricle					
14. Diastolic dysfunction					

HFAF Page 7 of 11

# SECTION V: DIAGNOSTIC TESTS (continued)

30. Was a transesophageal echocardiogram performed? Yes	S No/NR Go to item 32				
First transesophageal echocardiogram performed after onset or progression of event.					
a. Date (mm-dd-yyyy):					
b. Ejection fraction: %					
c. Record the following if present on transesophageal echoo	cardiogram:				
1. Impaired LV systolic function    Mild   Mode	rate Severe None Present NR				
<u>Yes</u>	No/Unknown/NR				
3. Regional wall motion abnormality					
4. Dilated left ventricle					
5. Dilated right ventricle					
32. Was coronary angiography performed? Yes	No/NR Go to item 37.				
a. Date (mm-dd-yyyy) :					
b. Record the following:					
1. Ejection fraction: %					
2. Coronary stenosis:					
	0 1-24 25-49 50-74 75-94 95-99 100 NR % % % % %				
a. Left main:					
b. Left anterior descending artery and branches:					
c. Left circumflex/marginal artery:					
d. Right coronary artery and branches:					
e. Intermediate ramus:					
Were coronary bypass grafts present? Yes  a. Number of occluded grafts:	No/NR ☐ Go to Item 37.				

HFAF Page 8 of 11

SECTION VI: BIOCHEMICA	AL ANALYSES		
	a. <u>Worst*</u>	b. <u>Last</u>	c. <u>Upper Limit Normal</u>
37. Hemoglobin (g/dL)			
38. Hematocrit (%)			
39. BNP (pg/mL)			
40. ProBNP (pg/mL)			
41. Troponin T (ng/mL)			
42. Troponin I (ng/mL)			
43. Sodium (mEq/L)			
*Items 44.a144.c2. deleted	and captured on the CE	EL form*	
45. BUN (mg/dL) a. Worst*	: b. l	_ast:	
* Worst = highest value w worst is the lowest valu		obin, hematocrit, and sodi	um. For these items

HFAF Page 9 of 11

### **SECTION VII: MEDICATIONS**

# Prior to hospitalization or progression in hospital

## At hospital discharge

	<u>Yes</u>	No/NR	<u>Yes</u>	No/NR	
59. ACE inhibitors			а. 🗆		
60. Angiotensin II receptor blockers			a. 🗌		
60.b. Angiotensin Receptor- Neprilysin Inhibitor (ARNI)			b.1.		
62. Anticoagulants			a. 🗌		
64. Antiplatelets					
a. Aspirin			a.1. 🗌		
b. Other			b.1.		
65. Beta blockers			a. 🗌		
67. Digitalis <sup>G</sup>			a. 🗌		
68. Diuretics <sup>G</sup>			a. 🔲		
69. Aldosterone Blocker			a. 🗌		
70. Lipid lowering agents					
a. Statins			a.1. 🗌		
b. Other			b.1. 🗌		
71. Nitrates			a. 🗌		
72. Hydralazine			а. 🗌		
72.b. SGLT2 (Sodium-glucose co-transporter-2) Inhibitor			b.1.		
72.c. Soluble guanylate cyclase stimulator			c.1. $\square$		
73. IV drugs during this hospitalization	73. IV drugs during this hospitalization?				
a. IV inotropes:	⁄es	☐ No/NR			
b. IV diuretics:	⁄es	☐ No/NR			

HFAF Page 10 of 11

### **SECTION VIII: ADMINISTRATIVE**

77. Time taken to abstract (mins):
78. Abstractor number:
79. Date abstract completed (mm-dd-yyyy):

HFAF Page 11 of 11