

SUPPLEMENTARY TABLES

SUPPLEMENTARY TABLE 1a. Average Values of Responses of Panelists on Healthcare Resource Utilization During Outpatient Management

Healthcare resources	HFrEF		HFmrEF		HFpEF	
	% patients	Use (per patient-year)	% patients	Use (per patient-year)	% patients	Use (per patient-year)
Visits						
Cardiology	81.7%	3.00	78.5%	2.55	72.3%	3.09
Internal medicine	16.3%	2.75	17.6%	2.40	21.6%	2.60
Cardiovascular surgery	5.5%	1.71	6.0%	1.86	4.8%	1.50
Pulmonology	5.1%	2.08	6.5%	2.00	11.8%	2.00
Consultations						
Cardiology	72.3%	2.44	62.7%	2.39	50.9%	2.88
Internal medicine	25.0%	1.56	25.9%	1.30	29.5%	2.00
Cardiovascular surgery	6.3%	1.25	6.7%	1.22	4.2%	1.29
Pulmonology	14.1%	2.05	16.8%	1.60	21.8%	2.20
Nephrology	24.4%	1.86	16.8%	1.80	28.4%	2.45
Endocrinology	20.5%	2.00	17.9%	1.80	26.4%	2.30
Other	1.4%	2.00	1.4%	2.00	1.8%	5.00
Tests						
Cardiac evaluation						
Chest X-ray	62.7%	1.95	61.8%	1.45	59.5%	2.09
ECG	100%	3.32	100%	3.14	97.3%	2.91
Echocardiogram	90.0%	2.14	91.8%	1.68	88.0%	1.86
Transesophageal echocardiogram	6.4%	0.94	4.7%	0.91	7.3%	0.94
Treadmill	15.2%	1.11	16.1%	1.10	25.2%	1.05
Holter monitoring	27.7%	1.09	23.6%	1.09	26.4%	1.09
24-h ambulatory BP monitoring	10.9%	1.11	13.8%	1.10	19.1%	1.10
Cardiac catheterization	12.3%	0.96	10.2%	0.89	6.3%	0.84
Coronary angiography	26.6%	0.93	30.5%	0.84	30.9%	0.97
SPECT	7.7%	0.84	10.0%	0.84	12.1%	0.84
Coronary CT	6.8%	0.84	7.4%	0.86	8.9%	0.94
Thorax/cardiac CT	7.8%	0.84	7.1%	0.86	8.4%	0.86
Cardiac MRI	6.1%	0.82	6.4%	0.80	6.8%	0.82
Cardiac PET	1.8%	0.76	1.2%	0.73	0.8%	0.77
Thorax USG	10.3%	1.09	5.5%	1.10	10.5%	1.08
Abdominal USG	12.5%	0.96	8.9%	0.96	14.4%	0.96
Renal USG	5.2%	0.84	5.0%	0.84	7.5%	0.86
Lower extremity USG	5.5%	0.83	4.6%	0.83	6.6%	0.83
Cardiopulmonary exercise test	2.1%	0.83	3.5%	0.80	4.4%	0.80
Six-minute walk test	8.4%	0.95	6.6%	1.07	7.1%	1.07
Endomyocardial biopsy	1.5%	0.68	0.3%	0.70	0.8%	0.64
Other organ biopsies	0.3%	0.62	0.4%	0.62	0.4%	0.62
Bone scintigraphy	0.6%	0.67	0.5%	0.62	4.5%	0.71
Biochemistry						
Renal function tests ^a	100%	3.59	100%	3.45	100%	3.32
Fasting blood glucose	98.2%	3.00	98.2%	2.73	100%	2.73
Postprandial blood glucose	37.3%	1.70	38.2%	1.67	38.2%	1.56

HbA1c	48.2%	1.64	46.8%	1.55	52.7%	1.82
Uric acid	68.6%	2.18	67.7%	2.09	69.5%	2.18
Liver function tests ^b	97.3%	2.86	88.2%	2.50	95.5%	2.59
Electrolytes ^c	99.1%	3.50	90.0%	3.10	97.3%	3.14
Lipid profile ^d	78.4%	1.55	74.5%	1.70	83.2%	1.64
Urinalysis	69.3%	1.45	64.7%	1.45	70.0%	1.18
Urine culture	14.6%	1.13	14.6%	1.00	13.6%	1.00
NT-proBNP/BNP	68.2%	2.59	66.4%	2.18	58.9%	2.18
Creatine kinase MB	27.0%	1.33	32.7%	1.33	36.8%	1.40
Troponin	29.8%	1.30	34.5%	1.30	36.8%	1.40
Procalcitonin	4.5%	1.13	3.2%	1.13	3.3%	1.13
C-reactive protein	45.4%	1.45	43.5%	1.18	44.9%	1.27
D-dimer	5.6%	1.20	6.3%	1.10	6.6%	1.10
Microalbuminuria	34.5%	1.20	22.7%	1.22	46.6%	1.10
Thyroid function tests	73.2%	1.18	63.2%	1.20	76.8%	1.18
Arterial blood gases	9.3%	1.33	6.0%	1.13	6.8%	1.22
Venous blood gases	5.3%	1.17	3.9%	1.20	4.6%	1.17
Hematology						
Complete blood count	100%	3.23	100%	2.91	100%	2.86
Coagulation tests ^e	42.7%	4.86	40.0%	4.73	44.1%	4.77
Serum iron	57.7%	1.64	49.7%	1.55	52.4%	1.27
Serum iron binding capacity	57.7%	1.55	49.7%	1.55	52.4%	1.36
Transferrin saturation	46.4%	1.64	45.2%	1.36	41.0%	1.36
Ferritin	58.2%	1.73	49.7%	1.55	53.2%	1.36
Vitamin B12	40.9%	1.27	40.5%	1.36	46.4%	1.18
Folic acid	33.6%	1.18	34.5%	1.18	39.5%	1.18
Homocysteine	7.6%	1.03	7.5%	1.03	7.5%	1.10
Monitoring procedures						
Oxygen saturation monitoring	2.8%	192 days	0.5%	27 days	1.0%	2 days
Arterial BP monitoring	2.3%	2 days	3.2%	2 days	3.6%	2 days
Swan-Ganz catheterization	0.0%	-	0.0%	-	0.0%	-

BP: blood pressure; CT: computerized tomography; HFmrEF: mid-range ejection fraction; MRI: magnetic resonance imaging; HFpEF: preserved ejection fraction; PET: positron emission tomography; HFrEF: reduced ejection fraction; USG: ultrasonography ^aBUN, creatinine & GFR, ^bALT, AST, AP, LDH, bilirubin & GGT, ^cNa, K, Cl, Ca & P, ^dtotal cholesterol, LDL-cholesterol, HDL-cholesterol & triglycerides, ^ePT, aPTT & INR

SUPPLEMENTARY TABLE 1b. Healthcare Resource Utilization During Outpatient Management, Calculated Based on Average Values of Responses of Panelists

Healthcare resources	Resource use (per patient-year)			
	HFrEF	HFmrEF	HFpEF	All patients
Visits				
Cardiology	2.45	2.00	2.23	2.30
Internal medicine	0.45	0.42	0.56	0.48
Cardiovascular surgery	0.10	0.11	0.07	0.09
Pulmonology	0.11	0.13	0.24	0.15
Consultations				
Cardiology	1.77	1.50	1.46	1.63
Internal medicine	0.39	0.34	0.59	0.44
Cardiovascular surgery	0.08	0.08	0.05	0.07
Pulmonology	0.29	0.27	0.48	0.34
Nephrology	0.45	0.30	0.70	0.50
Endocrinology	0.41	0.32	0.61	0.45
Other	0.03	0.03	0.09	0.05
Tests				
Cardiac evaluation				
Chest X-ray	1.23	0.90	1.25	1.17
ECG	3.32	3.14	2.83	3.14
Echocardiogram	1.92	1.54	1.64	1.77
Transesophageal echocardiogram	0.06	0.04	0.07	0.06
Treadmill	0.17	0.18	0.26	0.20
Holter monitoring	0.30	0.26	0.29	0.29
24-h ambulatory BP monitoring	0.12	0.15	0.21	0.15
Cardiac catheterization	0.12	0.09	0.05	0.09
Coronary angiography	0.25	0.26	0.30	0.26
SPECT	0.07	0.08	0.10	0.08
Coronary CT	0.06	0.06	0.08	0.07
Thorax/cardiac CT	0.07	0.06	0.07	0.07
Cardiac MRI	0.05	0.05	0.06	0.05
Cardiac PET	0.01	0.01	0.01	0.01
Thorax USG	0.11	0.06	0.11	0.10
Abdominal USG	0.12	0.09	0.14	0.12
Renal USG	0.04	0.04	0.06	0.05
Lower extremity USG	0.05	0.04	0.05	0.05
Cardiopulmonary exercise test	0.02	0.03	0.04	0.02
Six-minute walk test	0.08	0.07	0.08	0.08
Endomyocardial biopsy	0.01	0.00	0.01	0.01
Other organ biopsies	-	-	-	-
Bone scintigraphy	0.00	0.00	0.03	0.01
Biochemistry				
Renal function tests ^a	3.59	3.45	3.32	3.48
Fasting blood glucose	2.95	2.68	2.73	2.83
Postprandial blood glucose	0.63	0.64	0.59	0.62
HbA1c	0.79	0.72	0.96	0.83

Uric acid	1.50	1.42	1.52	1.49
Liver function tests ^b	2.79	2.20	2.47	2.58
Electrolytes ^c	3.47	2.79	3.05	3.21
Lipid profile ^d	1.21	1.27	1.36	1.27
Urinalysis	1.01	0.94	0.83	0.94
Urine culture	0.16	0.15	0.14	0.15
NT-proBNP/BNP	1.77	1.45	1.28	1.56
Creatine kinase MB	0.36	0.44	0.52	0.42
Troponin	0.39	0.45	0.52	0.44
Procalcitonin	0.05	0.04	0.04	0.04
C-reactive protein	0.66	0.51	0.57	0.61
D-dimer	0.07	0.07	0.07	0.07
Microalbuminuria	0.41	0.28	0.51	0.42
Thyroid function tests	0.86	0.76	0.91	0.86
Arterial blood gases	0.12	0.07	0.08	0.10
Venous blood gases	0.06	0.05	0.05	0.06
Hematology				
Complete blood count	3.23	2.91	2.86	3.06
Coagulation tests ^e	2.08	1.89	2.10	2.05
Serum iron	0.94	0.77	0.67	0.83
Serum iron binding capacity	0.89	0.77	0.71	0.82
Transferrin saturation	0.76	0.62	0.56	0.67
Ferritin	1.00	0.77	0.73	0.88
Vitamin B12	0.52	0.55	0.55	0.53
Folic acid	0.40	0.41	0.47	0.42
Homocysteine	0.08	0.08	0.08	0.08
Monitoring procedures				
Oxygen saturation monitoring	5.40	0.14	0.02	2.81
Arterial BP monitoring	0.03	0.05	0.07	0.05
Swan-Ganz catheterization	-	-	-	-

BP: blood pressure; CT: computerized tomography; HFmrEF: mid-range ejection fraction; MRI: magnetic resonance imaging; HFpEF: preserved ejection fraction; PET: positron emission tomography; HFrEF: reduced ejection fraction; USG: ultrasonography ^aBUN, creatinine & GFR, ^bALT, AST, AP, LDH, bilirubin & GGT, ^cNa, K, Cl, Ca & P, ^dtotal cholesterol, LDL-cholesterol, HDL-cholesterol & triglycerides, ^ePT, aPTT & INR

SUPPLEMENTARY TABLE 2a. Average Values of Responses of Panelists on Healthcare Resource Utilization During Inpatient Management

Healthcare resources		HFrEF		HFmrEF		HFpEF	
		% patients	Use (per/stay)	% patients	Use (per/stay)	% patients	Use (per/stay)
Hospital stays							
Emergency ward		27.8%	1.85 stays/year (1.30 days/stay)	16.5%	1.50 stays/year (1.11 days/stay)	19.6%	1.67 stays/year (1.20 days/stay)
Cardiology CU		17.3%	1.60 stays/year (3.80 days/stay)	9.8%	1.40 stays/year (3.00 days/stay)	13.2%	1.30 stays/year (2.45 days/stay)
Secondary ICU		15.9%	1.80 stays/year (5.00 days/stay)	5.9%	1.30 stays/year (3.40 days/stay)	11.0%	1.33 stays/year (3.45 days/stay)
Tertiary ICU		5.1%	1.18 stays/year (5.45 days/stay)	2.5%	1.22 stays/year (4.33 days/stay)	2.7%	1.11 stays/year (4.11 days/stay)
Regular ward		37.5%	1.64 stays/year (6.23 days/stay)	28.0%	1.70 stays/year (4.61 days/stay)	29.3%	1.40 stays/year (5.41 days/stay)
Consultations							
Cardiology	Emergency ward stay	94.5%	1.36	89.0%	1.10	85.0%	1.09
	CCU stay	0.0%	-	0.0%	-	0.0%	-
	ICU stay	87.3%	1.30	82.0%	1.22	68.6%	1.22
	Regular ward stay	87.7%	1.20	80.5%	1.22	83.9%	1.30
Internal medicine	Emergency ward stay	29.5%	1.11	23.0%	1.13	38.6%	1.00
	CCU stay	20.5%	1.11	24.5%	1.13	30.9%	1.11
	ICU stay	18.0%	1.13	29.0%	1.29	28.2%	1.25
	Regular ward stay	15.2%	1.11	25.5%	1.13	24.5%	1.13
Cardiovascular surgery	Emergency ward stay	2.5%	1.00	3.6%	1.00	1.2%	1.00
	CCU stay	3.0%	1.14	5.0%	1.17	1.9%	1.20
	ICU stay	2.0%	1.17	3.0%	1.17	1.4%	1.20
	Regular ward stay	3.0%	1.17	3.8%	1.17	2.6%	1.17
Pulmonology	Emergency ward stay	21.8%	1.00	32.5%	1.00	40.5%	1.00
	CCU stay	20.2%	1.22	23.5%	1.20	29.3%	1.27
	ICU stay	19.3%	1.33	25.0%	1.30	23.9%	1.22
	Regular ward stay	14.8%	1.22	22.0%	1.20	24.3%	1.30
Nephrology	Emergency ward stay	18.9%	1.00	19.5%	1.00	22.0%	1.00
	CCU stay	31.1%	1.32	22.0%	1.20	24.3%	1.18
	ICU stay	27.0%	1.33	25.0%	1.20	18.4%	1.22
	Regular ward stay	25.7%	1.18	18.0%	1.20	23.0%	1.20
Endocrinology	Emergency ward stay	4.5%	1.00	5.0%	1.00	8.2%	1.00
	CCU stay	18.2%	1.22	16.3%	1.25	16.4%	1.25
	ICU stay	12.3%	1.33	14.6%	1.22	12.3%	1.29
	Regular ward stay	21.4%	1.22	13.6%	1.25	21.4%	1.22
Other	Emergency ward stay	1.4%	1.00	2.0%	1.00	1.4%	1.00
	CCU stay	1.4%	1.00	1.7%	1.00	1.4%	1.00
	ICU stay	1.4%	1.00	2.0%	1.00	1.4%	1.00
	Regular ward stay	1.4%	1.00	2.0%	1.00	1.4%	1.00
Tests							
Cardiac evaluation							
Chest X-ray	Emergency ward stay	83.6%	1.00	80.9%	1.00	86.4%	1.00
	CCU stay	88.2%	1.50	90.9%	1.77	85.5%	1.32
	ICU stay	78.0%	1.72	83.0%	1.75	79.0%	
	Regular ward stay	74.5%	1.09	75.9%	1.36	79.1%	1.00

ECG	Emergency ward stay	93.6%	1.45	96.4%	1.27	90.9%	1.09
	CCU stay	100%	3.50	100%	2.68	100%	2.59
	ICU stay	97.0%	2.75	98.0%	2.20	99.0%	
	Regular ward stay	89.1%	2.82	94.8%	2.55	94.5%	2.55
Echocardiogram	Emergency ward stay	60.9%	1.00	43.5%	1.00	52.7%	1.00
	CCU stay	92.3%	1.14	77.3%	1.09	95.5%	1.00
	ICU stay	76.5%	1.10	67.5%	1.10	91.0%	
	Regular ward stay	91.1%	1.09	80.3%	1.09	93.4%	1.00
Transesophageal echocardiogram	Emergency ward stay	1.1%	1.00	1.0%	1.00	0.4%	1.00
	CCU stay	3.6%	1.00	2.5%	1.00	1.9%	1.00
	ICU stay	2.9%	1.00	1.9%	1.00	1.3%	
	Regular ward stay	2.5%	1.00	3.4%	1.00	2.5%	1.00
Treadmill	Emergency ward stay	0.0%	-	0.0%	-	0.5%	1.00
	CCU stay	1.0%	1.00	0.3%	1.00	1.8%	1.00
	ICU stay	0.0%	-	0.3%	1.00	0.5%	
	Regular ward stay	5.3%	1.00	6.5%	1.00	11.0%	1.00
Holter monitoring	Emergency ward stay	0.0%	-	1.4%	1.00	0.5%	1.00
	CCU stay	3.9%	1.00	1.7%	1.00	2.5%	1.00
	ICU stay	2.5%	1.00	0.4%	1.00	0.9%	
	Regular ward stay	6.9%	1.00	8.0%	1.00	6.6%	1.00
24-h ambulatory BP monitoring	Emergency ward stay	1.4%	1.00	0.0%	-	0.0%	-
	CCU stay	1.0%	1.00	0.3%	1.00	0.3%	1.00
	ICU stay	1.1%	1.00	0.3%	1.00	0.4%	1.00
	Regular ward stay	4.8%	1.00	4.8%	1.00	4.5%	1.00
Cardiac catheterization	Emergency ward stay	0.9%	1.00	1.4%	1.00	0.5%	1.00
	CCU stay	8.0%	1.00	7.5%	1.00	5.5%	1.00
	ICU stay	1.3%	1.00	5.9%	1.00	0.7%	1.00
	Regular ward stay	4.8%	1.00	5.5%	1.00	3.5%	1.00
Coronary angiography	Emergency ward stay	4.1%	1.00	4.5%	1.00	2.7%	1.00
	CCU stay	20.3%	1.00	13.5%	1.00	12.7%	1.00
	ICU stay	11.8%	1.00	7.0%	1.00	5.5%	1.00
	Regular ward stay	17.3%	1.00	12.4%	1.00	11.4%	1.00
SPECT	Emergency ward stay	0.0%	-	0.5%	1.00	0.0%	-
	CCU stay	1.6%	1.00	1.5%	1.00	0.5%	1.00
	ICU stay	2.5%	1.00	1.2%	1.00	0.6%	1.00
	Regular ward stay	3.3%	1.00	3.8%	1.00	4.8%	1.00
Coronary CT	Emergency ward stay	2.0%	1.00	4.4%	1.00	4.2%	1.00
	CCU stay	2.5%	1.00	3.9%	1.00	2.4%	1.00
	ICU stay	1.3%	1.00	3.7%	1.00	2.3%	1.00
	Regular ward stay	3.5%	1.00	5.6%	1.00	5.3%	1.00
Thorax/cardiac CT	Emergency ward stay	8.4%	1.00	7.0%	1.00	6.8%	1.00
	CCU stay	6.2%	1.00	7.0%	1.00	7.0%	1.00
	ICU stay	5.2%	1.00	5.7%	1.00	6.7%	1.00
	Regular ward stay	5.2%	1.00	5.6%	1.00	7.0%	1.00

Cardiac MRI	Emergency ward stay	0.1%	1.00	0.0%	1.00	0.0%	1.00
	CCU stay	0.7%	1.00	1.5%	1.00	1.1%	1.00
	ICU stay	2.3%	1.00	0.3%	1.00	0.7%	1.00
	Regular ward stay	2.4%	1.00	2.5%	1.00	2.5%	1.00
Cardiac PET	Emergency ward stay	0.0%	1.00	0.0%	1.00	0.0%	1.00
	CCU stay	0.5%	1.20	0.9%	1.00	0.4%	1.00
	ICU stay	0.2%	1.00	0.3%	1.00	0.3%	1.00
	Regular ward stay	2.3%	1.00	1.5%	1.00	1.4%	1.00
Thorax USG	Emergency ward stay	12.3%	1.00	14.1%	1.00	13.2%	1.00
	CCU stay	14.3%	1.00	16.2%	1.00	15.7%	1.00
	ICU stay	10.8%	1.00	10.3%	1.00	9.8%	1.00
	Regular ward stay	13.0%	1.00	6.2%	1.00	7.5%	1.00
Abdominal USG	Emergency ward stay	6.4%	1.00	10.5%	1.00	11.8%	1.00
	CCU stay	8.2%	1.00	14.4%	1.00	11.4%	1.00
	ICU stay	8.0%	1.00	7.8%	1.00	9.0%	1.00
	Regular ward stay	7.0%	1.00	18.7%	1.00	19.3%	1.00
Renal USG	Emergency ward stay	4.1%	1.00	6.0%	1.00	5.9%	1.00
	CCU stay	6.3%	1.00	5.2%	1.00	5.8%	1.00
	ICU stay	7.4%	1.00	5.4%	1.00	6.6%	1.00
	Regular ward stay	7.0%	1.00	7.6%	1.00	7.6%	1.00
Lower extremity USG	Emergency ward stay	1.7%	1.00	1.7%	1.00	1.9%	1.00
	CCU stay	2.9%	1.00	4.0%	1.00	4.5%	1.00
	ICU stay	2.8%	1.00	4.1%	1.00	4.4%	1.00
	Regular ward stay	14.0%	1.00	5.8%	1.00	5.2%	1.00
Cardiopulmonary exercise test	Emergency ward stay	0.0%	1.00	0.0%	-	0.3%	1.00
	CCU stay	0.5%	1.00	0.2%	1.00	1.1%	1.00
	ICU stay	0.5%	1.00	0.0%	-	0.1%	1.00
	Regular ward stay	2.8%	1.00	10.5%	1.00	2.4%	1.00
Six-minute walk test	Emergency ward stay	0.2%	1.00	0.2%	1.00	0.2%	1.00
	CCU stay	1.3%	1.00	1.0%	1.00	1.4%	1.00
	ICU stay	0.1%	1.00	0.3%	1.00	0.3%	1.00
	Regular ward stay	3.2%	1.17	11.6%	1.17	9.8%	1.17
Endomyocardial biopsy	Emergency ward stay	0.0%	-	0.0%	-	0.0%	-
	CCU stay	0.8%	1.00	0.4%	1.00	0.5%	1.00
	ICU stay	0.6%	1.00	0.3%	1.00	0.2%	1.00
	Regular ward stay	0.6%	1.00	0.8%	1.00	0.7%	1.00
Other organ biopsies	Emergency ward stay	0.0%	-	0.0%	-	0.0%	-
	CCU stay	0.3%	1.00	0.1%	1.00	0.1%	1.00
	ICU stay	0.3%	1.00	0.1%	1.00	0.2%	1.00
	Regular ward stay	0.4%	1.00	0.6%	1.00	0.4%	1.00
Bone scintigraphy	Emergency ward stay	0.0%	-	0.0%	-	0.0%	-
	CCU stay	0.2%	1.00	9.2%	1.00	0.2%	1.00
	ICU stay	0.0%	1.00	10.0%	1.00	0.0%	-
	Regular ward stay	1.3%	1.00	9.6%	1.00	3.1%	1.00

Biochemistry

Renal function tests ^a	Emergency ward stay	98.6%	1.20	100%	1.20	100%	1.18
	CCU stay	100%	3.50	100%	3.25	100%	3.05
	ICU stay	100%	2.85	100%	3.35	100%	2.75
	Regular ward stay	100%	2.95	100%	3.45	100%	2.86
Fasting blood glucose	Emergency ward stay	68.2%	1.00	66.0%	1.00	72.7%	1.00
	CCU stay	100%	2.27	100%	2.30	100%	2.27
	ICU stay	100%	2.20	100%	2.30	100%	1.90
	Regular ward stay	100%	1.91	100%	2.30	100%	2.36
Postprandial blood glucose	Emergency ward stay	36.4%	1.00	49.0%	1.00	57.3%	1.00
	CCU stay	47.5%	2.89	42.2%	2.63	47.3%	3.14
	ICU stay	33.2%	3.14	43.2%	2.88	48.0%	2.83
	Regular ward stay	38.8%	2.25	39.7%	2.25	49.5%	2.38
HbA1c	Emergency ward stay	16.5%	1.00	13.2%	1.00	16.4%	1.00
	CCU stay	37.7%	1.33	30.5%	1.43	33.6%	1.30
	ICU stay	24.0%	1.38	35.5%	1.33	25.5%	1.38
	Regular ward stay	36.4%	1.20	37.5%	1.20	38.6%	1.18
Uric acid	Emergency ward stay	38.6%	1.00	36.5%	1.00	45.5%	1.00
	CCU stay	58.6%	2.30	58.0%	2.00	51.8%	2.10
	ICU stay	52.5%	2.00	66.0%	1.90	55.0%	1.78
	Regular ward stay	56.8%	2.30	62.5%	1.90	58.6%	2.00
Liver function tests ^b	Emergency ward stay	84.5%	1.10	90.0%	1.10	85.0%	1.09
	CCU stay	99.1%	2.59	100%	2.65	99.1%	2.14
	ICU stay	99.0%	2.45	100%	2.85	89.0%	2.17
	Regular ward stay	99.1%	2.41	100%	2.65	97.3%	1.95
Electrolytes ^c	Emergency ward stay	98.6%	1.10	99.5%	1.10	98.6%	1.45
	CCU stay	100%	3.59	100%	3.15	100%	3.14
	ICU stay	100%	3.95	100%	3.25	100%	2.85
	Regular ward stay	100%	3.14	100%	3.15	100%	3.05
Lipid profile ^d	Emergency ward stay	16.4%	1.00	14.0%	1.00	8.2%	1.00
	CCU stay	58.9%	1.00	75.3%	1.00	62.3%	1.00
	ICU stay	46.0%	1.00	59.0%	1.00	52.0%	1.00
	Regular ward stay	71.1%	1.00	82.3%	1.00	83.2%	1.00
Urinalysis	Emergency ward stay	33.2%	1.00	30.5%	1.00	26.4%	1.00
	CCU stay	44.5%	1.00	46.0%	1.00	46.8%	1.00
	ICU stay	46.0%	1.00	48.0%	1.00	48.5%	1.00
	Regular ward stay	51.8%	1.10	43.5%	1.00	57.7%	1.00
Urine culture	Emergency ward stay	3.2%	1.00	3.3%	1.00	3.6%	1.00
	CCU stay	10.9%	1.10	10.3%	1.11	9.3%	1.10
	ICU stay	9.5%	1.11	12.0%	1.11	9.2%	1.11
	Regular ward stay	11.4%	1.10	8.1%	1.11	9.4%	1.11
NT-proBNP/BNP	Emergency ward stay	44.0%	1.00	42.5%	1.00	41.8%	1.00
	CCU stay	60.8%	1.32	53.5%	1.35	58.2%	1.20
	ICU stay	48.8%	1.44	50.3%	1.56	51.5%	1.28
	Regular ward stay	43.6%	1.10	43.0%	1.13	45.5%	1.11
Creatine kinase MB	Emergency ward stay	67.0%	1.33	68.8%	1.22	68.2%	1.22
	CCU stay	53.4%	1.39	56.8%	1.31	48.2%	1.39
	ICU stay	45.0%	1.50	59.0%	1.31	45.0%	1.36
	Regular ward stay	30.9%	1.29	33.0%	1.17	28.2%	1.43

Troponin	Emergency ward stay	79.3%	1.30	77.8%	1.20	72.7%	1.20
	CCU stay	62.5%	1.35	65.8%	1.39	57.3%	1.35
	ICU stay	48.0%	1.44	68.0%	1.39	48.0%	1.44
	Regular ward stay	31.8%	1.25	36.0%	1.29	32.7%	1.38
Procalcitonin	Emergency ward stay	13.5%	1.00	9.3%	1.00	9.4%	1.00
	CCU stay	18.0%	1.00	12.8%	1.00	12.1%	1.00
	ICU stay	15.8%	1.00	14.8%	1.00	18.8%	1.00
	Regular ward stay	9.5%	1.00	10.4%	1.00	9.9%	1.00
C-reactive protein	Emergency ward stay	35.9%	1.00	27.0%	1.00	40.7%	1.00
	CCU stay	48.9%	1.10	40.3%	1.11	53.9%	1.18
	ICU stay	45.8%	1.22	45.8%	1.22	59.3%	1.11
	Regular ward stay	39.5%	1.00	41.5%	1.00	49.1%	1.09
D-dimer	Emergency ward stay	34.1%	1.00	27.0%	1.00	39.5%	1.00
	CCU stay	29.8%	1.00	22.0%	1.00	22.5%	1.00
	ICU stay	24.5%	1.00	25.5%	1.00	23.0%	1.00
	Regular ward stay	19.5%	1.00	21.0%	1.00	17.7%	1.00
Microalbuminuria	Emergency ward stay	7.3%	1.00	5.5%	1.00	3.6%	1.00
	CCU stay	17.8%	1.00	6.1%	1.00	22.1%	1.00
	ICU stay	19.6%	1.00	6.7%	1.00	17.6%	1.00
	Regular ward stay	43.7%	1.00	19.4%	1.00	29.8%	1.00
Thyroid function tests	Emergency ward stay	11.4%	1.00	10.0%	1.00	12.3%	1.00
	CCU stay	49.1%	1.00	50.0%	1.00	52.7%	1.00
	ICU stay	38.5%	1.00	48.0%	1.00	41.0%	1.00
	Regular ward stay	63.6%	1.00	61.0%	1.00	65.0%	1.10
Arterial blood gases	Emergency ward stay	33.8%	1.10	34.7%	1.11	32.8%	1.09
	CCU stay	41.5%	1.55	36.1%	1.44	40.1%	1.64
	ICU stay	48.1%	1.90	43.6%	2.00	43.5%	1.60
	Regular ward stay	19.6%	1.18	17.0%	1.22	20.7%	1.20
Venous blood gases	Emergency ward stay	17.5%	1.00	22.7%	1.00	16.2%	1.00
	CCU stay	23.7%	1.00	22.6%	1.11	18.3%	1.00
	ICU stay	34.6%	1.20	28.1%	1.22	28.0%	1.22
	Regular ward stay	15.5%	1.00	15.0%	1.00	14.4%	1.00
Hematology							
Complete blood count	Emergency ward stay	96.4%	1.00	100%	1.00	95.5%	1.10
	CCU stay	100%	2.18	100%	2.00	100%	2.20
	ICU stay	100%	2.50	100%	2.40	100%	1.89
	Regular ward stay	100%	2.09	100%	1.90	100%	2.30
Coagulation tests ^e	Emergency ward stay	42.7%	1.00	52.0%	1.00	47.3%	1.00
	CCU stay	61.8%	1.64	67.0%	1.20	56.4%	1.40
	ICU stay	60.0%	1.44	72.0%	1.30	58.0%	1.25
	Regular ward stay	60.0%	1.64	66.0%	1.50	55.5%	1.70
Serum iron	Emergency ward stay	1.8%	1.00	2.0%	1.00	1.8%	1.00
	CCU stay	25.0%	1.00	16.8%	1.00	21.6%	1.00
	ICU stay	15.4%	1.00	14.4%	1.00	13.4%	1.00
	Regular ward stay	37.7%	1.00	31.5%	1.00	36.4%	1.00

Serum iron binding capacity	Emergency ward stay	1.8%	1.00	2.0%	1.00	1.8%	1.00
	CCU stay	25.0%	1.00	16.8%	1.00	21.6%	1.00
	ICU stay	15.4%	1.00	14.4%	1.00	13.4%	1.00
	Regular ward stay	37.7%	1.00	31.5%	1.00	36.4%	1.00
Transferrin saturation	Emergency ward stay	1.8%	1.00	2.0%	1.00	1.8%	1.00
	CCU stay	25.0%	1.00	16.8%	1.00	21.6%	1.00
	ICU stay	15.4%	1.00	14.4%	1.00	13.4%	1.00
	Regular ward stay	37.7%	1.00	31.5%	1.00	36.4%	1.00
Ferritin	Emergency ward stay	1.8%	1.00	2.0%	1.00	1.8%	1.00
	CCU stay	24.8%	1.00	19.0%	1.00	23.5%	1.00
	ICU stay	18.4%	1.00	18.4%	1.00	17.4%	1.00
	Regular ward stay	31.8%	1.00	28.5%	1.00	33.2%	1.00
Vitamin B12	Emergency ward stay	0.9%	1.00	1.0%	1.00	0.9%	1.00
	CCU stay	16.6%	1.00	8.2%	1.00	18.6%	1.00
	ICU stay	9.8%	1.00	9.7%	1.00	11.0%	1.00
	Regular ward stay	31.4%	1.00	24.0%	1.00	32.3%	1.00
Folic acid	Emergency ward stay	0.9%	1.00	1.0%	1.00	0.9%	1.00
	CCU stay	16.5%	1.00	8.0%	1.00	18.6%	1.00
	ICU stay	9.6%	1.00	9.5%	1.00	10.5%	1.00
	Regular ward stay	21.4%	1.00	13.4%	1.00	23.2%	1.00
Homocysteine	Emergency ward stay	0.5%	1.00	0.5%	1.00	0.5%	1.00
	CCU stay	2.4%	1.00	1.5%	1.00	1.4%	1.00
	ICU stay	1.1%	1.00	1.5%	1.00	1.5%	1.00
	Regular ward stay	1.9%	1.00	1.6%	1.00	2.5%	1.00
Monitoring procedures							
Oxygen saturation monitoring	Emergency ward stay	0.0%	-	0.0%	-	0.0%	-
	CCU stay	82.3%	4.27	55.0%	3.17	52.3%	3.54
	ICU stay	0.0%	-	0.0%	-	0.0%	-
	Regular ward stay	0.0%	-	0.0%	-	0.0%	-
Arterial BP monitoring	Emergency ward stay	0.0%	-	0.0%	-	0.0%	-
	CCU stay	35.5%	3.43	22.0%	2.57	29.3%	2.43
	ICU stay	0.0%	-	0.0%	-	0.0%	-
	Regular ward stay	0.0%	-	0.0%	-	0.0%	-
Swan-Ganz catheterization	Emergency ward stay	0.0%	-	0.0%	-	0.0%	-
	CCU stay	4.6%	2.43	1.2%	2.50	2.1%	2.67
	ICU stay	0.0%	-	0.0%	-	0.0%	-
	Regular ward stay	0.0%	-	0.0%	-	0.0%	-

BP: blood pressure; CCU: cardiology care unit; CT: computerized tomography; ICU: intensive care unit; HFmrEF: mid-range ejection fraction; MRI: magnetic resonance imaging; HFpEF: preserved ejection fraction; PET: positron emission tomography; HFrEF: reduced ejection fraction; USG: ultrasonography ^aBUN, creatinine & GFR, ^bALT, AST, AP, LDH, bilirubin & GGT, ^cNa, K, Cl, Ca & P, ^dtotal cholesterol, LDL-cholesterol, HDL-cholesterol & triglycerides, ^ePT, aPTT & INR

SUPPLEMENTARY TABLE 2b. Healthcare Resource Utilization During Inpatient Management, Calculated Based on Average Values of Responses of Panelists

Healthcare resources HFmrEF		Resource use (per patient-year)				
		HFmrEF	HFpEF	All patients		
Hospital stays						
Emergency ward		0.67 days	0.27 days	0.39 days	0.51 days	
Cardiology CU		1.05 days	0.41 days	0.42 days	0.74 days	
Secondary ICU		1.43 days	0.26 days	0.50 days	0.93 days	
Tertiary ICU		0.33 days	0.13 days	0.12 days	0.23 days	
Regular ward		3.82 days	2.19 days	2.22 days	3.04 days	
Total		7.30 days	3.27 days	3.66 days	5.45 days	
Consultations						
		Emergency ward stay	0.663	0.242	0.303	0.476
Cardiology	CCU stay		-	-	-	-
	ICU stay		0.392	0.107	0.148	0.265
	Regular ward stay		0.646	0.468	0.447	0.553
Internal medicine	Emergency ward stay		0.169	0.064	0.126	0.136
	CCU stay		0.063	0.038	0.059	0.057
	ICU stay		0.070	0.040	0.062	0.062
	Regular ward stay		0.104	0.136	0.113	0.113
Cardiovascular surgery	Emergency ward stay		0.013	0.009	0.004	0.010
	CCU stay		0.010	0.008	0.004	0.008
	ICU stay		0.008	0.004	0.003	0.006
	Regular ward stay		0.021	0.021	0.012	0.019
Pulmonology	Emergency ward stay		0.112	0.080	0.132	0.112
	CCU stay		0.069	0.039	0.064	0.061
	ICU stay		0.089	0.035	0.051	0.067
	Regular ward stay		0.111	0.125	0.130	0.119
Nephrology	Emergency ward stay		0.097	0.048	0.072	0.080
	CCU stay		0.114	0.036	0.049	0.080
	ICU stay		0.125	0.032	0.040	0.082
	Regular ward stay		0.186	0.103	0.113	0.149
Endocrinology	Emergency ward stay		0.023	0.012	0.027	0.022
	CCU stay		0.062	0.028	0.035	0.047
	ICU stay		0.057	0.019	0.028	0.041
	Regular ward stay		0.160	0.080	0.107	0.129
Other	Emergency ward stay		0.007	0.005	0.004	0.006
	CCU stay		0.004	0.002	0.002	0.003
	ICU stay		0.005	0.002	0.002	0.004
Regular ward stay		0.008	0.010	0.006	0.008	
Tests						
Cardiac evaluation						
		Emergency ward stay	0.430	0.200	0.282	0.342
Chest X-ray	CCU stay		0.367	0.222	0.194	0.288
	ICU stay		0.465	0.154	0.209	0.330
	Regular ward stay		0.499	0.492	0.325	0.447

ECG	Emergency ward stay	0.701	0.303	0.324	0.513
	CCU stay	0.970	0.369	0.446	0.700
	ICU stay	0.922	0.229	0.393	0.633
	Regular ward stay	1.541	1.146	0.988	1.303
Echocardiogram	Emergency ward stay	0.313	0.107	0.172	0.232
	CCU stay	0.291	0.116	0.164	0.220
	ICU stay	0.291	0.079	0.160	0.212
	Regular ward stay	0.610	0.416	0.383	0.506
Transesophageal echocardiogram	Emergency ward stay	0.006	0.002	0.001	0.004
	CCU stay	0.010	0.003	0.003	0.007
	ICU stay	0.010	0.002	0.002	0.006
	Regular ward stay	0.015	0.016	0.010	0.014
Treadmill	Emergency ward stay	0.000	0.000	0.001	0.000
	CCU stay	0.003	0.000	0.003	0.002
	ICU stay	0.000	0.000	0.001	0.000
	Regular ward stay	0.032	0.031	0.045	0.036
Holter monitoring	Emergency ward stay	0.000	0.003	0.001	0.001
	CCU stay	0.011	0.002	0.004	0.007
	ICU stay	0.008	0.000	0.002	0.005
	Regular ward stay	0.042	0.038	0.027	0.037
24-h ambulatory BP monitoring	Emergency ward stay	0.007	0.000	0.000	0.004
	CCU stay	0.003	0.000	0.001	0.002
	ICU stay	0.004	0.000	0.001	0.002
	Regular ward stay	0.030	0.023	0.019	0.025
Cardiac catheterization	Emergency ward stay	0.005	0.003	0.001	0.003
	CCU stay	0.022	0.010	0.010	0.016
	ICU stay	0.004	0.006	0.001	0.004
	Regular ward stay	0.029	0.026	0.014	0.024
Coronary angiography	Emergency ward stay	0.021	0.011	0.009	0.016
	CCU stay	0.056	0.018	0.022	0.039
	ICU stay	0.041	0.007	0.010	0.025
	Regular ward stay	0.106	0.059	0.047	0.080
SPECT	Emergency ward stay	0.000	0.001	0.000	0.000
	CCU stay	0.005	0.002	0.001	0.003
	ICU stay	0.009	0.001	0.001	0.005
	Regular ward stay	0.020	0.018	0.020	0.020
Coronary CT	Emergency ward stay	0.011	0.011	0.014	0.011
	CCU stay	0.007	0.005	0.004	0.006
	ICU stay	0.004	0.004	0.004	0.004
	Regular ward stay	0.022	0.027	0.022	0.023
Thorax/cardiac CT	Emergency ward stay	0.043	0.017	0.022	0.032
	CCU stay	0.017	0.010	0.012	0.014
	ICU stay	0.018	0.006	0.012	0.014
	Regular ward stay	0.032	0.027	0.029	0.030

	Emergency ward stay	0.001	0.000	0.000	0.000
Cardiac MRI	CCU stay	0.002	0.002	0.002	0.002
	ICU stay	0.008	0.000	0.001	0.005
	Regular ward stay	0.015	0.012	0.010	0.013
	Emergency ward stay	-	-	-	-
Cardiac PET	CCU stay	0.002	0.001	0.001	0.001
	ICU stay	0.001	0.000	0.001	0.001
	Regular ward stay	0.014	0.007	0.006	0.010
	Emergency ward stay	0.063	0.035	0.043	0.052
Thorax USG	CCU stay	0.040	0.022	0.027	0.033
	ICU stay	0.037	0.011	0.017	0.026
	Regular ward stay	0.080	0.030	0.031	0.056
	Emergency ward stay	0.033	0.026	0.039	0.033
Abdominal USG	CCU stay	0.023	0.020	0.020	0.021
	ICU stay	0.028	0.008	0.016	0.020
	Regular ward stay	0.043	0.089	0.079	0.063
	Emergency ward stay	0.021	0.015	0.019	0.019
Renal USG	CCU stay	0.017	0.007	0.010	0.013
	ICU stay	0.026	0.006	0.012	0.018
	Regular ward stay	0.043	0.036	0.031	0.038
	Emergency ward stay	0.009	0.004	0.006	0.007
Lower extremity USG	CCU stay	0.008	0.005	0.008	0.007
	ICU stay	0.010	0.004	0.008	0.008
	Regular ward stay	0.086	0.028	0.021	0.056
	Emergency ward stay	0.000	0.000	0.001	0.000
Cardiopulmonary exercise test	CCU stay	0.002	0.000	0.002	0.001
	ICU stay	0.002	0.000	0.000	0.001
	Regular ward stay	0.017	0.050	0.010	0.021
	Emergency ward stay	0.001	0.000	0.001	0.001
Six-minute walk test	CCU stay	0.004	0.001	0.002	0.003
	ICU stay	0.000	0.000	0.001	0.000
	Regular ward stay	0.023	0.065	0.047	0.038
	Emergency ward stay	-	-	-	-
Endomyocardial biopsy	CCU stay	0.002	0.001	0.001	0.001
	ICU stay	0.002	0.000	0.000	0.001
	Regular ward stay	0.004	0.004	0.003	0.003
	Emergency ward stay	-	-	-	-
Other organ biopsies	CCU stay	0.001	0.000	0.000	0.000
	ICU stay	0.001	0.000	0.000	0.001
	Regular ward stay	0.002	0.003	0.002	0.002
	Emergency ward stay	-	-	-	-
Bone scintigraphy	CCU stay	0.001	0.013	0.000	0.003
	ICU stay	0.000	0.011	0.000	0.002
	Regular ward stay	0.008	0.046	0.013	0.017
Biochemistry					

Renal function tests ^a	Emergency ward stay	0.609	0.296	0.386	0.483
	CCU stay	0.970	0.447	0.524	0.738
	ICU stay	0.986	0.356	0.485	0.717
	Regular ward stay	1.813	1.640	1.175	1.594
Fasting blood glucose	Emergency ward stay	0.351	0.163	0.237	0.281
	CCU stay	0.630	0.316	0.391	0.499
	ICU stay	0.761	0.245	0.335	0.536
	Regular ward stay	1.171	1.093	0.970	1.098
Postprandial blood glucose	Emergency ward stay	0.187	0.121	0.187	0.174
	CCU stay	0.380	0.152	0.255	0.299
	ICU stay	0.361	0.132	0.240	0.281
	Regular ward stay	0.536	0.424	0.483	0.499
HbA1c	Emergency ward stay	0.085	0.033	0.053	0.066
	CCU stay	0.139	0.060	0.075	0.105
	ICU stay	0.114	0.050	0.062	0.086
	Regular ward stay	0.268	0.214	0.187	0.234
Uric acid	Emergency ward stay	0.199	0.090	0.148	0.163
	CCU stay	0.374	0.159	0.187	0.278
	ICU stay	0.363	0.133	0.172	0.263
	Regular ward stay	0.802	0.564	0.481	0.662
Liver function tests ^b	Emergency ward stay	0.479	0.244	0.303	0.382
	CCU stay	0.711	0.364	0.364	0.542
	ICU stay	0.839	0.303	0.340	0.589
	Regular ward stay	1.465	1.259	0.780	1.226
Electrolytes ^c	Emergency ward stay	0.558	0.270	0.468	0.476
	CCU stay	0.995	0.433	0.539	0.753
	ICU stay	1.366	0.346	0.503	0.915
	Regular ward stay	1.925	1.497	1.250	1.645
Lipid profile ^d	Emergency ward stay	0.084	0.035	0.027	0.058
	CCU stay	0.163	0.103	0.107	0.135
	ICU stay	0.159	0.063	0.092	0.121
	Regular ward stay	0.437	0.391	0.341	0.400
Urinalysis	Emergency ward stay	0.171	0.075	0.086	0.128
	CCU stay	0.123	0.063	0.081	0.099
	ICU stay	0.159	0.051	0.086	0.117
	Regular ward stay	0.350	0.207	0.237	0.289
Urine culture	Emergency ward stay	0.016	0.008	0.012	0.013
	CCU stay	0.033	0.016	0.018	0.025
	ICU stay	0.037	0.014	0.018	0.027
	Regular ward stay	0.077	0.043	0.043	0.060
NT-proBNP/BNP	Emergency ward stay	0.226	0.105	0.137	0.176
	CCU stay	0.222	0.099	0.120	0.168
	ICU stay	0.242	0.084	0.116	0.175
	Regular ward stay	0.295	0.230	0.207	0.257

Creatine kinase MB	Emergency ward stay	0.460	0.207	0.272	0.356
	CCU stay	0.206	0.102	0.115	0.159
	ICU stay	0.233	0.082	0.108	0.167
	Regular ward stay	0.244	0.183	0.165	0.209
Troponin	Emergency ward stay	0.531	0.230	0.285	0.400
	CCU stay	0.234	0.126	0.133	0.183
	ICU stay	0.239	0.100	0.122	0.178
	Regular ward stay	0.244	0.220	0.185	0.222
Procalcitonin	Emergency ward stay	0.069	0.023	0.031	0.049
	CCU stay	0.050	0.018	0.021	0.035
	ICU stay	0.055	0.016	0.033	0.041
	Regular ward stay	0.058	0.050	0.041	0.051
C-reactive protein	Emergency ward stay	0.185	0.067	0.133	0.147
	CCU stay	0.149	0.062	0.110	0.120
	ICU stay	0.194	0.060	0.116	0.145
	Regular ward stay	0.243	0.197	0.220	0.227
D-dimer	Emergency ward stay	0.175	0.067	0.129	0.141
	CCU stay	0.083	0.030	0.039	0.060
	ICU stay	0.085	0.027	0.041	0.061
	Regular ward stay	0.120	0.100	0.073	0.102
Microalbuminuria	Emergency ward stay	0.037	0.014	0.012	0.025
	CCU stay	0.049	0.008	0.038	0.038
	ICU stay	0.068	0.007	0.031	0.045
	Regular ward stay	0.268	0.092	0.122	0.191
Thyroid function tests	Emergency ward stay	0.058	0.025	0.040	0.047
	CCU stay	0.136	0.069	0.091	0.110
	ICU stay	0.133	0.051	0.072	0.099
	Regular ward stay	0.390	0.290	0.293	0.343
Arterial blood gases	Emergency ward stay	0.191	0.095	0.117	0.151
	CCU stay	0.178	0.072	0.113	0.138
	ICU stay	0.316	0.093	0.123	0.216
	Regular ward stay	0.142	0.099	0.102	0.122
Venous blood gases	Emergency ward stay	0.090	0.056	0.053	0.072
	CCU stay	0.066	0.035	0.031	0.050
	ICU stay	0.144	0.037	0.060	0.098
Hematology	Regular ward stay	0.095	0.071	0.059	0.080
	Emergency ward stay	0.496	0.247	0.343	0.403
	CCU stay	0.605	0.275	0.378	0.474
Complete blood count	ICU stay	0.865	0.255	0.333	0.591
	Regular ward stay	1.283	0.903	0.944	1.110
	Emergency ward stay	0.220	0.128	0.154	0.183
	CCU stay	0.280	0.111	0.136	0.205
Coagulation tests ^e	ICU stay	0.300	0.100	0.128	0.211
	Regular ward stay	0.602	0.470	0.387	0.514

Serum iron	Emergency ward stay	0.009	0.005	0.006	0.007
	CCU stay	0.069	0.023	0.037	0.051
	ICU stay	0.053	0.015	0.024	0.037
	Regular ward stay	0.232	0.150	0.149	0.192
Serum iron binding capacity	Emergency ward stay	0.009	0.005	0.006	0.007
	CCU stay	0.069	0.023	0.037	0.051
	ICU stay	0.053	0.015	0.024	0.037
	Regular ward stay	0.232	0.150	0.149	0.192
Transferrin saturation	Emergency ward stay	0.009	0.005	0.006	0.007
	CCU stay	0.069	0.023	0.037	0.051
	ICU stay	0.053	0.015	0.024	0.037
	Regular ward stay	0.232	0.150	0.149	0.192
Ferritin	Emergency ward stay	0.009	0.005	0.006	0.007
	CCU stay	0.069	0.026	0.040	0.052
	ICU stay	0.064	0.020	0.031	0.045
	Regular ward stay	0.195	0.135	0.136	0.166
Vitamin B12	Emergency ward stay	0.005	0.002	0.003	0.004
	CCU stay	0.046	0.011	0.032	0.035
	ICU stay	0.034	0.010	0.019	0.025
	Regular ward stay	0.192	0.114	0.132	0.160
Folic acid	Emergency ward stay	0.005	0.002	0.003	0.004
	CCU stay	0.046	0.011	0.032	0.035
	ICU stay	0.033	0.010	0.019	0.024
	Regular ward stay	0.131	0.064	0.095	0.107
Homocysteine	Emergency ward stay	0.002	0.001	0.001	0.002
	CCU stay	0.007	0.002	0.002	0.004
	ICU stay	0.004	0.002	0.003	0.003
	Regular ward stay	0.012	0.008	0.010	0.010
Monitoring procedures					
Oxygen saturation monitoring	Emergency ward stay	-	-	-	-
	CCU stay	0.973	0.240	0.318	0.639
	ICU stay	-	-	-	-
	Regular ward stay	-	-	-	-
Arterial BP monitoring	Emergency ward stay	-	-	-	-
	CCU stay	0.337	0.078	0.122	0.224
	ICU stay	-	-	-	-
	Regular ward stay	-	-	-	-
Swan-Ganz catheterization	Emergency ward stay	-	-	-	-
	CCU stay	0.031	0.004	0.010	0.020
	ICU stay	-	-	-	-
	Regular ward stay	-	-	-	-

BP: blood pressure; CCU: cardiology care unit; CT: computerized tomography; ICU: intensive care unit; HFmrEF: mid-range ejection fraction; MRI: magnetic resonance imaging; HFpEF: preserved ejection fraction; PET: positron emission tomography; HFrEF: reduced ejection fraction; USG: ultrasonography; aBUN, creatinine & GFR, bALT, AST, AP, LDH, bilirubin & GGT, cNa, K, Cl, Ca & P, dtotal cholesterol, LDL-cholesterol, HDL-cholesterol & triglycerides, ePT, aPTT & INR

SUPPLEMENTARY TABLE 3a. Average Values of Responses of Panelists on the Usage of Medications

Medications	HFrEF			HFmrEF			HFpEF		
	% patients	Daily dose	Duration (per year)	% patients	Daily dose	Duration (per year)	% patients	Daily dose	Duration (per year)
Outpatient setting									
Diuretic PO (furosemide)	75.9%	48.89 mg	320 days	55.5%	42.22 mg	301 days	61.8%	40.00 mg	310 days
Diuretic IV (furosemide)	2.9%	50.00 mg	19 days	4.2%	44.00 mg	23 days	1.4%	50.00 mg	18 days
Beta-blocker (metoprolol, bisoprolol, carvedilol & nebivolol)	86.8%	1.38 tab	365 days	75.5%	1.38 tab	365 days	65.2%	1.38 tab	365 days
ACEi (ramipril)	78.2%	10.94 mg	365 days	66.4%	10.94 mg	365 days	56.8%	12.50 mg	365 days
ARB (valsartan, candesartan & losartan)	26.8%	1.00 tab	365 days	27.3%	1.00 tab	365 days	27.3%	1.25 tab	365 days
Mineralocorticoid receptor antagonist (spironolactones)	55.0%	36.11 mg	365 days	34.5%	36.11 mg	365 days	24.6%	36.11 mg	340 days
Selective aldosterone receptor antagonist (eplerenon)	11.8%	25.00 mg	365 days	7.7%	25.00 mg	365 days	3.7%	25.00 mg	365 days
Vasodilator (isosorbid mononitrate)	12.8%	41.43 mg	334 days	9.4%	41.43 mg	365 days	20.3%	40.00 mg	334 days
Digoxin PO	20.9%	0.27 mg	319 days	8.8%	0.23 mg	342 days	7.8%	0.54 mg	339 days
Digoxin IV	0.0%	-	-	0.0%	-	-	0.0%	-	-
Dobutamine	0.1%	374.40 mg	30 days	0.0%	-	-	0.0%	-	-
Dopamine	0.1%	374.40 mg	30 days	0.0%	-	-	0.0%	-	-
Levosimendan	0.0%	10.01 mg	30 days	0.0%	-	-	0.0%	-	-
Ivabradine	12.5%	10.31 mg	365 days	4.9%	9.17 mg	365 days	0.5%	10.00 mg	365 days
Warfarin	12.7%	5.00 mg	365 days	10.6%	5.00 mg	365 days	12.5%	5.00 mg	365 days
NOAC (rivaroxaban, apixaban & edoxaban)	14.1%	1.09 tab	365 days	12.7%	1.09 tab	365 days	17.5%	1.09 tab	365 days
Heparin	0.0%	-	-	0.0%	-	-	0.0%	-	-
Low molecular weight heparin	2.5%	7000.00 mg	109 days	2.4%	9333.33 mg	23 days	2.4%	9333.33 mg	23 days
ARNI (sacubitril-valsartan)	9.3%	166.67 mg	365 days	4.6%	180.00 mg	365 days	7.8%	150.00 mg	365 days
Amiodarone PO	8.8%	200.00 mg	334 days	3.7%	192.86 mg	329 days	4.5%	193.75 mg	334 days
Amiodarone IV	0.3%	500.00 mg	10 days	0.3%	500.00 mg	10 days	0.3%	500.00 mg	10 days
Acetazolamide	0.8%	437.50 mg	184 days	0.5%	625.00 mg	125 days	0.5%	625.00 mg	125 days
Tolvaptan	0.4%	15.00 mg	158 days	0.0%	15.00 mg	55 days	0.0%	15.00 mg	55 days
Potassium IV	0.0%	-	-	0.0%	-	-	0.0%	-	-
Magnesium IV	0.0%	-	-	0.0%	-	-	0.0%	-	-
Polystyrene sulphate	0.9%	880.00 mg	152 days	0.2%	880.00 mg	198 days	0.4%	880.00 mg	198 days
Iron IV (ferric carboxymaltose)	16.3%	928.57 mg	4 days	5.8%	1000.00 mg	6 days	3.5%	1166.67 mg	11 days
Norepinephrine	0.0%	-	-	0.0%	-	-	0.0%	-	-
Epinephrine	0.0%	-	-	0.0%	-	-	0.0%	-	-
Lidocaine	0.0%	-	-	0.0%	-	-	0.0%	-	-
Iloprost	0.1%	0.10 mg	28 days	0.0%	-	-	0.0%	-	-
Pneumococcal vaccine	42.3%	1.00 dose	1 day	34.2%	1.00 dose	1 day	32.8%	1.00 dose	1 day
Influenza vaccine	48.2%	1.00 dose	1 day	43.2%	1.00 dose	1 day	41.4%	1.00 dose	1 day
Inpatient setting									
Diuretic PO (furosemide)	62.3%	123.75 mg	3.88 days	43.7%	113.75 mg	3.05 days	52.7%	87.50 mg	3.26 days
Diuretic IV (furosemide)	84.1%	113.75 mg	4.67 days	64.1%	112.86 mg	3.60 days	78.6%	77.50 mg	3.60 days
Beta-blocker (metoprolol, bisoprolol, carvedilol & nebivolol)	86.4%	1.25 mg tab	4.80 days	79.3%	1.25 tab	3.36 days	66.8%	1.25 tab	4.08 days
ACEi (ramipril)	72.7%	10.63 mg	4.80 days	65.5%	10.63 mg	3.36 days	60.9%	11.25 mg	4.08 days
ARB (valsartan, candesartan & losartan)	26.4%	1.13 mg tab	4.80 days	20.5%	1.13 tab	3.36 days	27.3%	1.25 tab	4.08 days

Mineralocorticoid receptor antagonist (spironolactones)	63.2%	34.38 mg	4.71 days	45.0%	34.38 mg	3.36 days	32.4%	34.38 mg	4.08 days
Selective aldosterone receptor antagonist (eplerenon)	17.7%	28.13 mg	4.61 days	12.5%	28.57 mg	3.49 days	2.8%	25.00 mg	4.20 days
Vasodilator (isosorbid mononitrate)	28.6%	41.43 mg	2.73 days	16.0%	41.43 mg	2.87 days	29.8%	41.43 mg	3.29 days
Digoxin PO	21.1%	0.55 mg	4.21 days	8.1%	0.60 mg	3.66 days	11.3%	0.23 mg	3.96 days
Digoxin IV	4.9%	0.33 mg	2.13 days	2.8%	0.38 mg	1.63 days	4.0%	0.38 mg	1.98 days
Dobutamine	17.9%	409.50 mg	2.70 days	8.8%	405.60 mg	2.57 days	0.0%	-	-
Dopamine	16.5%	401.14 mg	2.89 days	9.9%	411.84 mg	2.83 days	1.4%	468.00 mg	2.00 days
Levosimendan	5.9%	14.11 mg	1.88 days	1.0%	12.35 mg	2.25 days	0.3%	19.37 mg	1.00 days
Ivabradine	19.9%	10.16 mg	4.30 days	9.9%	10.21 mg	3.49 days	4.3%	11.67 mg	3.76 days
Warfarin	11.7%	5.00 mg	4.76 days	9.4%	5.00 mg	3.49 days	12.9%	5.00 mg	4.13 days
NOAC (rivaroxaban, apixaban & edoxaban)	13.2%	1.09 tab	4.61 days	10.9%	1.00 tab	3.27 days	15.3%	1.09 tab	4.08 days
Heparin	2.8%	18750.0 mg	4.10 days	1.5%	12500.00 mg	3.15 days	3.3%	12500.00 mg	4.42 days
Low molecular weight heparin	39.5%	4857.14 mg	4.37 days	26.8%	5000.00 mg	3.21 days	29.1%	5166.67 mg	3.84 days
ARNI (sacubitril-valsartan)	7.0%	157.14 mg	4.12 days	4.3%	140.00 mg	2.56 days	3.6%	100.00 mg	3.00 days
Amiodarone PO	10.6%	314.29 mg	4.12 days	5.4%	300.00 mg	3.09 days	6.9%	300.00 mg	3.27 days
Amiodarone IV	7.3%	958.33 mg	1.75 days	3.8%	1110.00 mg	1.43 days	4.5%	970.00 mg	1.86 days
Acetazolamide	5.5%	392.86 mg	4.59 days	2.2%	416.67 mg	3.44 days	2.3%	416.67 mg	3.50 days
Tolvaptan	3.5%	15.14 mg	3.59 days	1.2%	15.00 mg	3.59 days	1.6%	18.75 mg	3.60 days
Potassium IV	6.4%	27.67 mg	1.44 days	4.0%	27.67 mg	2.32 days	4.6%	27.67 mg	1.33 days
Magnesium IV	3.0%	4.00 mg	1.13 days	1.4%	4.00 mg	2.22 days	2.6%	4.00 mg	1.00 days
Polystyrene sulphate	1.5%	880.00 mg	3.70 days	0.9%	880.00 mg	3.00 days	1.1%	880.00 mg	3.00 days
Iron IV (ferric carboxymaltose)	15.5%	928.57 mg	1.22 days	11.3%	1000.00 mg	1.29 days	12.7%	1083.33 mg	1.33 days
Norepinephrine	4.5%	18.00 mg	2.33 days	0.7%	24.00 mg	3.25 days	0.5%	24.00 mg	3.25 days
Epinephrine	1.8%	1.35 mg	1.88 days	0.4%	1.80 mg	3.00 days	0.4%	1.80 mg	1.67 days
Lidocaine	1.0%	600.00 mg	1.20 days	0.5%	1000.00 mg	1.25 days	0.3%	1000.00 mg	1.33 days
Iloprost	0.9%	0.20 mg	3.00 days	0.3%	0.20 mg	3.00 days	0.6%	0.20 mg	3.00 days
Pneumococcal vaccine	22.9%	1.00 dose	1 day	15.4%	1.00 dose	1 day	20.6%	1.00 dose	1 day
Influenza vaccine	20.6%	1.00 dose	1 day	15.6%	1.00 dose	1 day	20.9%	1.00 dose	1 day

ACEi: angiotensin converting enzyme inhibitors; ARB: angiotensin receptor blocker; ARNI: angiotensin receptor neprilysin inhibitor; IV: intravenous; HFmrEF: mid-range ejection fraction; NOAC: novel oral anticoagulant; HFpEF: preserved ejection fraction; PO: per oral; HFrEF: reduced ejection fraction

SUPPLEMENTARY TABLE 3b. Amounts of Medications, Calculated Based on Average Values of Responses of Panelists

Medications Amount unit		Amount (per patient-year)				
		HFrEF	HFmrEF	HFpEF	All patients	
Diuretic PO (furosemide)	Outpatient	mg/year	11875.56	7067.74	7665.45	9711.09
	Inpatient	mg/year	524.06	146.60	163.23	345.32
Diuretic IV (furosemide)	Outpatient	mg/year	27.39	41.40	12.44	25.78
	Inpatient	mg/year	782.27	251.83	238.03	520.27
Beta-blocker (metoprolol, bisoprolol, carvedilol & nebivolol)	Outpatient	tablet/year	435.72	378.69	327.36	393.05
	Inpatient	tablet/year	9.07	3.21	3.70	6.36
ACEi (ramipril)	Outpatient	mg/year	3121.16	2649.36	2592.33	2875.11
	Inpatient	mg/year	64.90	22.55	30.35	46.57
ARB (valsartan, candesartan & losartan)	Outpatient	tablet/year	97.89	99.55	124.43	105.93
	Inpatient	tablet/year	2.49	0.75	1.51	1.86
Mineralocorticoid receptor antagonist (spironolactones)	Outpatient	mg/year	7249.31	4553.28	3024.80	5493.41
	Inpatient	mg/year	178.96	50.15	49.27	116.05
Selective aldosterone receptor antagonist (eplerenon)	Outpatient	mg/year	1078.41	705.11	335.97	789.46
	Inpatient	mg/year	40.29	12.00	3.21	23.97
Vasodilator (isosorbid mononitrate)	Outpatient	mg/year	1776.03	1415.92	2711.48	1977.77
	Inpatient	mg/year	56.66	18.36	44.05	45.51
Digoxin PO	Outpatient	mg/year	17.73	7.01	14.13	14.59
	Inpatient	mg/year	0.86	0.17	0.11	0.51
Digoxin IV	Outpatient	mg/year	0.00	0.00	0.00	0.00
	Inpatient	mg/year	0.06	0.02	0.03	0.04
Dobutamine	Outpatient	mg/year	10.21	0.00	0.00	5.24
	Inpatient	mg/year	345.87	88.37	0.00	194.93
Dopamine	Outpatient	mg/year	10.21	0.00	0.00	5.24
	Inpatient	mg/year	334.85	111.17	13.85	197.75
Levosimendan	Outpatient	mg/year	0.14	0.00	0.00	0.07
	Inpatient	mg/year	2.74	0.27	0.06	1.47
Ivabradine	Outpatient	mg/year	468.80	162.73	16.59	277.42
	Inpatient	mg/year	15.21	3.41	2.03	9.07
Warfarin	Outpatient	mg/year	231.44	194.11	228.95	223.42
	Inpatient	mg/year	4.87	1.59	2.89	3.65
NOAC (rivaroxaban, apixaban & edoxaban)	Outpatient	tablet/year	56.11	50.68	69.86	59.05
	Inpatient	tablet/year	1.16	0.34	0.74	0.88
Heparin	Outpatient	mg/year	0.00	0.00	0.00	0.00
	Inpatient	mg/year	3796.48	552.99	1964.62	2629.62
Low molecular weight heparin	Outpatient	mg/year	18685.23	5147.47	5147.47	12100.96
	Inpatient	mg/year	14687.77	4157.59	6261.81	10178.41
ARNI (sacubitril-valsartan)	Outpatient	mg/year	5640.91	3052.66	4280.95	4739.40
	Inpatient	mg/year	79.45	14.78	11.84	47.14
Amiodarone PO	Outpatient	mg/year	5886.14	2367.01	2886.37	4325.65
	Inpatient	mg/year	241.44	47.99	73.60	154.80
Amiodarone IV	Outpatient	mg/year	13.64	13.64	13.64	13.64
	Inpatient	mg/year	213.59	58.48	88.87	146.99
Acetazolamide	Outpatient	mg/year	665.05	355.11	355.11	514.31
	Inpatient	mg/year	172.28	30.26	35.97	104.87

Tolvaptan	Outpatient	mg/year	9.50	0.21	0.21	4.98
	Inpatient	mg/year	3.29	0.62	1.17	2.15
Potassium IV	Outpatient	mg/year	0.00	0.00	0.00	0.00
	Inpatient	mg/year	4.45	2.49	1.86	3.31
Magnesium IV	Outpatient	mg/year	0.00	0.00	0.00	0.00
	Inpatient	mg/year	0.23	0.12	0.11	0.18
Polystyrene sulphate	Outpatient	mg/year	1213.33	316.00	632.00	868.83
	Inpatient	mg/year	88.14	23.18	31.26	58.89
Iron IV (ferric carboxymaltose)	Outpatient	mg/year	554.05	349.09	455.00	485.17
	Inpatient	mg/year	307.15	139.99	199.52	243.17
Norepinephrine	Outpatient	mg/year	0.00	0.00	0.00	0.00
	Inpatient	mg/year	3.29	0.55	0.42	1.92
Epinephrine	Outpatient	mg/year	0.00	0.00	0.00	0.00
	Inpatient	mg/year	0.08	0.02	0.01	0.05
Lidocaine	Outpatient	mg/year	0.00	0.00	0.00	0.00
	Inpatient	mg/year	12.61	5.49	3.95	8.70
Iloprost	Outpatient	mg/year	0.00	0.00	0.00	0.00
	Inpatient	mg/year	0.01	0.00	0.00	0.01
Pneumococcal vaccine	Outpatient	dose/year	0.42	0.34	0.33	0.38
	Inpatient	dose/year	0.40	0.15	0.22	0.30
Influenza vaccine	Outpatient	dose/year	0.48	0.43	0.41	0.45
	Inpatient	dose/year	0.36	0.15	0.23	0.28

ACEi: angiotensin converting enzyme inhibitors; ARB: angiotensin receptor blocker; ARNI: angiotensin receptor neprilysin inhibitor; IV:intravenous; HFmrEF:mid-range ejection fraction; NOAC:novel oral anticoagulant; HFpEF: preserved ejection fraction; PO:per oral; HFrEF:reduced ejection fraction

SUPPLEMENTARY TABLE 4a. Average Values of Responses of Panelists on the Usage of Non-Pharmaceutical Treatments

	HFrEF		HFmrEF		HFpEF	
	% patients	Duration (per/patient-year)	% patients	Duration (per/patient-year)	% patients	Duration (per/patient-year)
Non-pharmaceutical treatments						
Palliative: outpatient setting						
Paracentesis	0.4%	2 days	0.0%	-	0.1%	1 day
Thoracentesis	0.5%	2 days	0.1%	1 day	0.5%	3 days
Oxygen treatment	1.5%	306 days	0.3%	217 days	0.2%	300 days
Temporary pacemaker	0.1%	1 day	0.1%	1 day	0.1%	1 day
Intraaortic balloon pump	0.0%	-	0.0%	-	0.0%	-
ECMO	0.0%	-	0.0%	-	0.0%	-
Electrical cardioversion	0.2%	2 days	0.2%	2 days	0.3%	2 days
Cardiopulmonary resuscitation	0.7%	1 day	0.5%	2 days	0.5%	1 day
Ultrafiltration	0.3%	3 days	0.2%	3 days	0.5%	5 days
Palliative: inpatient setting						
Paracentesis	3.4%	1.60 days	1.0%	1.86 days	1.7%	1.75 days
Thoracentesis	4.4%	1.60 days	1.9%	1.75 days	3.2%	1.67 days
Oxygen treatment	60.9%	3.92 days	38.6%	2.87 days	43.6%	3.38 days
Temporary pacemaker	1.7%	3.23 days	1.1%	2.43 days	1.2%	2.43 days
Intraaortic balloon pump	1.1%	3.78 days	0.3%	4.75 days	0.2%	4.00 days
ECMO	0.3%	6.62 days	0.3%	8.00 days	0.2%	10.00 days
Electrical cardioversion	3.3%	1.10 days	2.2%	1.10 days	3.2%	1.10 days
Cardiopulmonary resuscitation	2.9%	1 day	1.3%	1.57 days	2.1%	1.57 days
Ultrafiltration	3.7%	3.33 days	1.5%	2.57 days	2.6%	3.39 days
CPAP - BiPAP	11.2%	3.08 days	6.4%	3.17 days	9.5%	2.83 days
Peritoneal dialysis	0.8%	3.80 days	0.4%	3.40 days	0.8%	3.60 days
Hemodialysis	3.7%	3.52 days	2.2%	2.69 days	2.0%	3.31 days
Permanent/continuous						
CPAP - BiPAP	0.3%	300 days	0.2%	300 days	0.2%	300 days
Peritoneal dialysis	1.6%	122 days	0.6%	122 days	1.3%	122 days
Hemodialysis	3.0%	122 days	2.0%	122 days	3.3%	122 days
CRT-P	2.4%	per 5 years	0.0%	per 5 years	0.0%	per 5 years
CRT-D	10.6%	per 5 years	0.2%	per 5 years	0.09%	per 5 years
ICD	20.9%	per 5 years	2.1%	per 5 years	0.8%	per 5 years
CABG	7.4%	per 5 years	7.3%	per 15 years	5.4%	per 15 years
Coronary intervention	25.7%	per 5 years	23.7%	per 5 years	26.4%	per 5 years
LVAD	0.04%	per 1 year	0.0%	per 1 year	0.0%	per 1 year
Heart transplantation	0.02%	per 1 year	0.0%	per 1 year	0.0%	per 1 year
Heart valve surgery	2.8%	per 15 years	2.0%	per 15 years	2.8%	per 15 years
Mitraclip	0.2%	per 15 years	0.01%	per 15 years	0.09%	per 15 years
TAVI	1.9%	per 8 years	2.2%	per 8 years	2.9%	per 8 years
AF ablation	3.0%	per 5 years	2.7%	per 5 years	2.8%	per 5 years
VT ablation	2.2%	per 5 years	1.3%	per 5 years	1.01%	per 5 years
Physical therapy	14.3%	per 10 sess.	3.0%	per 10 sess.	9.8%	per 10 sess.

AF:atrial fibrillation; BiPAP:bilevel positive airway pressure; CABG:coronary artery bypass grafting; CPAP:continuous positive airway pressure; CRT-D: cardiac resynchronization therapy defibrillator; CRT-P:cardiac resynchronization therapy pacemaker; ECMO: extracorporeal membrane oxygenation; ICD: implantable cardioverter defibrillator; LVAD:left ventricular assist device; HFmrEF:mid-range ejection fraction; HFpEF:preserved ejection fraction; HFrEF:reduced ejection fraction; sess:session; TAVI:transcatheter aortic valve implantation; VT:ventricular tachycardia

SUPPLEMENTARY TABLE 4b. Amounts of Non-Pharmaceutical Treatments, Calculated Based on Average Values of Responses of Panelists.

Non-pharmaceutical treatments	Amount unit	Amount (per patient-year)			
		HFrEF	HFmrEF	HFpEF	All patients
Palliative:outpatient setting					
Paracentesis	Times/year	0.01	0.00	0.00	0.00
Thoracentesis	Times/year	0.01	0.00	0.01	0.01
Oxygen treatment	Days/year	4.73	0.69	0.68	2.76
Temporary pacemaker	Times/year	0.00	0.00	0.00	0.00
Intraaortic balloon pump	Times/year	0.00	0.00	0.00	0.00
ECMO	Times/year	0.00	0.00	0.00	0.00
Electrical cardioversion	Times/year	0.00	0.00	0.00	0.00
Cardiopulmonary resuscitation	Times/year	0.01	0.01	0.01	0.01
Ultrafiltration	Times/year	0.01	0.00	0.02	0.01
Palliative:inpatient setting					
Paracentesis	Times/year	0.09	0.02	0.03	0.06
Thoracentesis	Times/year	0.12	0.03	0.06	0.09
Oxygen treatment	Days/year	4.18	1.07	1.60	2.82
Temporary pacemaker	Times/year	0.10	0.03	0.03	0.06
Intraaortic balloon pump	Times/year	0.07	0.01	0.01	0.04
ECMO	Times/year	0.04	0.02	0.02	0.03
Electrical cardioversion	Times/year	0.06	0.02	0.04	0.05
Cardiopulmonary resuscitation	Times/year	0.05	0.02	0.04	0.04
Ultrafiltration	Sessions/year	0.22	0.04	0.10	0.15
CPAP - BiPAP	Days/year	0.60	0.19	0.29	0.43
Peritoneal dialysis	Sessions/year	0.05	0.01	0.03	0.04
Hemodialysis	Sessions/year	0.23	0.06	0.07	0.15
Permanent/continuous					
CPAP - BiPAP	Days/year	0.82	0.55	0.55	0.69
Peritoneal dialysis	Sessions/year	2.00	0.73	1.56	1.63
Hemodialysis	Sessions/year	3.66	2.43	3.98	3.51
CRT-P	Devices/year	0.0048	0.0000	0.0000	0.0025
CRT-D	Devices/year	0.0211	0.0004	0.0002	0.0110
ICD	Devices/year	0.0419	0.0042	0.0015	0.0228
CABG	Operations/year	0.0049	0.0049	0.0036	0.0045
Coronary intervention	Interventions/year	0.0514	0.0473	0.0527	0.0510
LVAD	Operations/year	0.0004	0.0000	0.0000	0.0002
Heart transplantation	Operations/year	0.0001	0.0000	0.0000	0.0001
Heart valve surgery	Operations/year	0.0019	0.0013	0.0019	0.0018
Mitraclip	Operations/year	0.0002	0.0000	0.0001	0.0001
TAVI	Operations/year	0.0023	0.0028	0.0036	0.0028
AF ablation	Interventions/year	0.0060	0.0053	0.0056	0.0058
VT ablation	Interventions/year	0.0045	0.0025	0.0020	0.0034
Physical therapy	Sessions/yr	1.43	0.30	0.98	1.08

AF:atrial fibrillation; BiPAP:bilevel positive airway pressure; CABG: coronary artery bypass grafting; CPAP:continuous positive airway pressure; CRT-D:cardiac resynchronization therapy defibrillator; CRT-P:cardiac resynchronization therapy pacemaker; ECMO:extracorporeal membrane oxygenation; ICD:implantable cardioverter defibrillator; LVAD: left ventricular assist device; HFmrEF:mid-range ejection fraction; HFpEF:preserved ejection fraction; HFrEF:reduced ejection fraction; TAVI:transcatheter aortic valve implantation; VT:ventricular tachycardia

SUPPLEMENTARY TABLE 5a. Unit Costs of Healthcare Resources

Healthcare resources	Unit cost (\$)		
Visits		Lipid profile ^d	0.75
Cardiology	6.58	Urinalysis	0.14
Internal medicine	5.39	Urine culture	0.29
Cardiovascular surgery	5.42	NT-proBNP/BNP	3.54
Pulmonology	4.91	Creatine kinase MB	0.59
Consultations	0.74	Troponin	1.12
Hospital stays		Procalcitonin	3.01
Emergency ward	0.74	C-reactive protein	0.24
Primary (Cardiology) ICU	24.82	D-dimer	1.90
Secondary ICU	52.75	Microalbuminuria	0.77
Tertiary ICU	99.36	Thyroid function tests	1.59
Regular ward	3.72	Arterial blood gases	0.60
Tests		Venous blood gases	0.60
Cardiac evaluation		Hematology	
Chest X-ray	1.21	Complete blood count	0.35
ECG	0.28	Coagulation tests ^e	1.34
Echocardiogram	3.44	Serum iron	0.13
Transesophageal echocardiogram	8.84	Serum iron binding capacity	0.13
Treadmill	3.91	Transferrin saturation	1.00
Holter monitoring	5.59	Ferritin	0.59
24-h ambulatory BP monitoring	4.97	Vitamin B12	0.59
Cardiac catheterization	39.32	Folic acid	0.77
Coronary angiography	56.19	Homocysteine	2.36
SPECT	20.32	Monitoring procedures	
Coronary CT	6.49	Oxygen saturation monitoring	
Thorax/Cardiac CT	6.49	Arterial BP monitoring	5.53
Cardiac MRI	7.66	Swan-Ganz catheterization	3.69
Cardiac PET	124.07		
Thorax USG	1.40		
Abdominal USG	2.81		
Renal USG	1.20		
Lower extremity USG	1.40		
Cardiopulmonary exercise test	2.92		
Six-minute walk test	2.76		
Endomyocardial biopsy	74.45		
Other organ biopsies	24.29		
Bone scintigraphy	10.86		
Biochemistry			
Renal function tests ^a	0.66		
Fasting blood glucose	0.12		
Postprandial blood glucose	0.24		
HbA1c	0.47		
Uric acid	0.13		
Liver function tests ^b	0.74		
Electrolytes ^c	0.63		

BP: blood pressure; CCU: cardiology care unit; CT: computerized tomography; ICU: intensive care unit; MRI: magnetic resonance imaging; PET: positron emission tomography; USG: ultrasonography; ^aBUN, creatinine & GFR, ^bALT, AST, AP, LDH, bilirubin & GGT, ^cNa, K, Cl, Ca & P, ^dtotal cholesterol, LDL-cholesterol, HDL-cholesterol & triglycerides, ^ePT, aPTT & INR

Supplementary Table 5b. Unit Costs of Medications

Medications	Unit cost
Diuretic PO (furosemide)	0.05 \$/tablet
Diuretic IV (furosemide)	0.07 \$/ampoule
Beta-blocker (metoprolol, bisoprolol, carvedilol & nebivolol)	0.09 \$/tablet
ACEi (ramipril)	0.06 \$/tablet
ARB (valsartan, candesartan & losartan)	0.10 \$/tablet
Mineralocorticoid receptor antagonist (spironolactones)	0.12 \$/tablet
Selective aldosterone receptor antagonist (eplerenon)	0.31 \$/tablet
Vasodilator (isosorbid mononitrate)	0.10 \$/capsule
Digoxin PO	0.02 \$/tablet
Digoxin IV	0.25 \$/ampoule
Dobutamine	2.70 \$/ampoule
Dopamine	0.57 \$/ampoule
Levosimendan	48.96 \$/vial
Ivabradine	0.11 \$/tablet
Warfarin	0.06 \$/tablet
NOAC (rivaroxaban, apixaban & edoxaban)	0.55 \$/tablet
Heparin	3.47 \$/vial
Low molecular weight heparin	1.81 \$/syringe
ARNI (sacubitril-valsartan)	-
Amiodarone PO	0.09 \$/tablet
Amiodarone IV	0.29 \$/ampoule
Acetazolamide	0.06 \$/tablet
Tolvaptan	29.52 \$/tablet
Potassium IV	0.13 \$/ampoule
Magnesium IV	11.66 \$/bag
Polystyrene sulphate	1.00 \$/bag
Iron IV (ferric carboxymaltose)	28.67 \$/vial
Norepinephrine	2.06 \$/ampoule
Epinephrine	0.08 \$/ampoule
Lidocaine	0.22 \$/ampoule
Iloprost	12.71 \$/ampoule
Pneumococcal vaccine	7.91 \$/döşe
Influenza vaccine	4.84 \$/dose

ACEi:angiotensin converting enzyme inhibitors; ARB:angiotensin receptor blocker; ARNI:angiotensin receptor neprilysin inhibitor; IV:intravenous; NOAC:novel oral anticoagulant; PO:per oral

SUPPLEMENTARY TABLE 5c. Unit Costs of Non-Pharmaceutical Treatments

Nonpharmaceutical treatments	Unit cost
Paracentesis	12.05 \$
Thoracentesis	12.04 \$
Oxygen treatment	0.11 \$/day
Temporary pacemaker	19.50 \$
Intraaortic balloon pump	323.47 \$
ECMO	2161.25 \$
Electrical cardioversion	7.60 \$
Cardiopulmonary resuscitation	14.73 \$
Ultrafiltration	3.87 \$/session
CPAP-BiPAP	18.87 \$/day
Peritoneal dialysis	11.45 \$/session
Hemodialysis	32.44 \$/session
CRT-P	1,541.24 \$
CRT-D	1,932.89 \$
ICD	1,977.14 \$
CABG	1,352.39 \$
Coronary intervention	429.98 \$
LVAD	35,658.78 \$
Heart transplantation	12,725.68 \$
Heart valve surgery	4,128.26 \$
Mitraclip	379.11 \$
TAVI	904.71 \$
AF ablation	227.20 \$
VT ablation	137.09 \$
Physical therapy	11.97 \$/session

AF: atrial fibrillation; BiPAP:bilevel positive airway pressure; CABG:coronary artery bypass grafting; CPAP:continuous positive airway pressure; CRT-D:cardiac resynchronization therapy defibrillator; CRT-P:cardiac resynchronization therapy pacemaker; ECMO:extracorporeal membrane oxygenation; ICD:implantable cardioverter defibrillator; LVAD:left ventricular assist device; TAVI: ranscatheter aortic valve implantation; VT:ventricular tachycardia

SUPPLEMENTARY TABLE 6. Cost Components of Healthcare Resource Utilization During Outpatient Management

Healthcare resources	Annual costs (\$/patient-year)			
	HFrEF	HFmrEF	HFpEF	All patients
Visits	19.59	16.68	19.29	18.93
Cardiology	16.14	13.16	14.70	15.14
Internal medicine	2.41	2.28	3.03	2.57
Cardiovascular surgery	0.51	0.60	0.39	0.50
Pulmonology	0.52	0.64	1.16	0.73
Consultations	2.54	2.11	2.97	2.58
Cardiology	1.32	1.12	1.09	1.21
Internal medicine	0.29	0.25	0.44	0.33
Cardiovascular surgery	0.06	0.06	0.04	0.05
Pulmonology	0.22	0.20	0.36	0.25
Nephrology	0.34	0.23	0.52	0.37
Endocrinology	0.30	0.24	0.45	0.34
Other	0.02	0.02	0.07	0.03
Tests	61.39	54.90	59.45	59.56
Cardiac evaluation	36.96	33.45	37.20	36.35
Chest X-ray	1.48	1.08	1.50	1.41
ECG	0.93	0.88	0.79	0.88
Echocardiogram	6.62	5.32	5.65	6.08
Transesophageal echocardiogram	0.53	0.38	0.61	0.53
Treadmill	0.66	0.69	1.03	0.77
Holter monitoring	1.69	1.44	1.61	1.62
24-h ambulatory BP monitoring	0.60	0.76	1.04	0.76
Cardiac catheterization	4.63	3.56	2.08	3.68
Coronary angiography	13.88	14.35	16.85	14.84
SPECT	1.33	1.72	2.07	1.62
Coronary CT	0.37	0.41	0.55	0.43
Thorax/Cardiac CT	0.43	0.39	0.47	0.43
Cardiac MRI	0.38	0.39	0.43	0.40
Cardiac PET	1.68	1.11	0.73	1.29
Thorax USG	0.16	0.08	0.16	0.14
Abdominal USG	0.34	0.24	0.39	0.33
Renal USG	0.05	0.05	0.08	0.06
Lower extremity USG	0.06	0.05	0.08	0.07
Cardiopulmonary exercise test	0.05	0.08	0.10	0.07
Six-minute walk test	0.22	0.20	0.21	0.21
Endomyocardial biopsy	0.78	0.17	0.38	0.54
Other organ biopsies	0.05	0.05	0.05	0.05
Bone scintigraphy	0.05	0.04	0.34	0.13
Biochemistry	17.91	15.52	15.96	16.88
Renal function tests ^a	2.37	2.28	2.19	2.30
Fasting blood glucose	0.35	0.32	0.32	0.33
Postprandial blood glucose	0.15	0.15	0.14	0.15
HbA1c	0.37	0.34	0.45	0.39
Uric acid	0.19	0.18	0.20	0.19

Liver function tests ^b	2.07	1.64	1.84	1.92
Electrolytes ^c	2.17	1.74	1.91	2.01
Lipid profile ^d	0.91	0.96	1.03	0.96
Urinalysis	0.14	0.13	0.12	0.13
Urine culture	0.05	0.04	0.04	0.05
NT-proBNP/BNP	6.25	5.12	4.54	5.53
Creatine kinase MB	0.21	0.26	0.30	0.25
Troponin	0.43	0.50	0.58	0.49
Procalcitonin	0.15	0.11	0.11	0.13
C-reactive protein	0.16	0.12	0.13	0.14
D-dimer	0.13	0.13	0.14	0.13
Microalbuminuria	0.32	0.21	0.40	0.32
Thyroid function tests	1.38	1.21	1.45	1.36
Arterial blood gases	0.07	0.04	0.05	0.06
Venous blood gases	0.04	0.03	0.03	0.03
Hematology	6.32	5.66	5.89	6.07
Complete blood count	1.14	1.03	1.01	1.08
Coagulation tests ^e	2.79	2.54	2.83	2.75
Serum iron	0.12	0.10	0.09	0.11
Serum iron binding capacity	0.12	0.10	0.09	0.11
Transferrin saturation	0.76	0.62	0.56	0.67
Ferritin	0.59	0.45	0.43	0.52
Vitamin B12	0.31	0.32	0.32	0.31
Folic acid	0.30	0.31	0.36	0.32
Homocysteine	0.19	0.18	0.20	0.19
Monitoring procedures	0.19	0.26	0.40	0.27
Oxygen saturation monitoring	0.00	0.00	0.00	0.00
Arterial BP monitoring	0.19	0.26	0.40	0.27
Swan-Ganz catheterization	0.00	0.00	0.00	0.00
Total cost of healthcare resource utilization during outpatient management	83.52	73.69	81.70	81.07

BP: blood pressure; CT: computerized tomography; HFmrEF: mid-range ejection fraction; MRI: magnetic resonance imaging; HFpEF: preserved ejection fraction; PET: positron emission tomography; HFrEF: reduced ejection fraction; USG: ultrasonograph; aBUN, creatinine & GFR, bALT, AST, AP, LDH, bilirubin & GGT, cNa, K, Cl, Ca & P, dtotal cholesterol, LDL-cholesterol, HDL-cholesterol & triglycerides, ePT, aPTT & INR

SUPPLEMENTARY TABLE 7. Cost Components of Healthcare Resource Utilization During Inpatient Management

Healthcare resources	Annual costs (\$/patient-year)				
	HFmrEF	HFpEF	All patients		
HFrEF					
Hospitalization	148.84	45.22	57.97	102.15	
Emergency ward	0.50	0.20	0.29	0.38	
Cardiology ICU	26.14	10.24	10.46	18.47	
Secondary ICU	75.31	13.69	26.58	49.09	
Tertiary ICU	32.67	12.93	12.38	22.91	
Regular ward	14.23	8.16	8.27	11.31	
Consultations	2.52	1.33	1.60	2.02	
Cardiology	Emergency ward stay	0.49	0.18	0.23	0.35
	CCU stay	0.00	0.00	0.00	0.00
	ICU stay	0.29	0.08	0.11	0.20
	Regular ward stay	0.48	0.35	0.33	0.41
Internal medicine	Emergency ward stay	0.13	0.05	0.09	0.10
	CCU stay	0.05	0.03	0.04	0.04
	ICU stay	0.05	0.03	0.05	0.05
	Regular ward stay	0.08	0.10	0.08	0.08
Cardiovascular surgery	Emergency ward stay	0.01	0.01	0.00	0.01
	CCU stay	0.01	0.01	0.00	0.01
	ICU stay	0.01	0.00	0.00	0.00
	Regular ward stay	0.02	0.02	0.01	0.01
Pulmonology	Emergency ward stay	0.08	0.06	0.10	0.08
	CCU stay	0.05	0.03	0.05	0.05
	ICU stay	0.07	0.03	0.04	0.05
	Regular ward stay	0.08	0.09	0.10	0.09
Nephrology	Emergency ward stay	0.07	0.04	0.05	0.06
	CCU stay	0.08	0.03	0.04	0.06
	ICU stay	0.09	0.02	0.03	0.06
	Regular ward stay	0.14	0.08	0.08	0.11
Endocrinology	Emergency ward stay	0.02	0.01	0.02	0.02
	CCU stay	0.05	0.02	0.03	0.03
	ICU stay	0.04	0.01	0.02	0.03
	Regular ward stay	0.12	0.06	0.08	0.10
Other	Emergency ward stay	0.01	0.00	0.00	0.00
	CCU stay	0.00	0.00	0.00	0.00
	ICU stay	0.00	0.00	0.00	0.00
Tests	Regular ward stay	0.01	0.01	0.00	0.01
	Emergency ward stay	56.37	30.55	29.88	43.62
	CCU stay	8.24	3.90	4.84	6.41
All	ICU stay	13.65	5.52	6.44	9.97
	Regular ward stay	10.86	3.38	4.43	7.52
	Emergency ward stay	23.62	17.74	14.18	19.72
	CCU stay	3.85	1.87	2.06	2.94
Cardiac evaluation	CCU stay	6.75	2.86	3.01	4.90
	ICU stay	5.26	1.53	1.87	3.54
	Regular ward stay	14.43	10.51	8.05	11.81

	Emergency ward stay	3.89	1.76	2.43	3.05
Biochemistry	CCU stay	4.13	1.91	2.28	3.16
	ICU stay	4.73	1.57	2.19	3.37
	Regular ward stay	7.28	5.88	4.83	6.29
Hematology	Emergency ward stay	0.50	0.28	0.35	0.41
	CCU stay	0.80	0.31	0.44	0.60
	ICU stay	0.87	0.27	0.37	0.61
	Regular ward stay	1.91	1.35	1.30	1.62
Monitoring	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	1.98	0.45	0.71	1.31
	ICU stay	0.00	0.00	0.00	0.00
	Regular ward stay	0.00	0.00	0.00	0.00
Cardiac evaluation					
Chest X-ray	Emergency ward stay	0.52	0.24	0.34	0.41
	CCU stay	0.44	0.27	0.23	0.35
	ICU stay	0.56	0.19	0.25	0.40
	Regular ward stay	0.60	0.59	0.39	0.54
ECG	Emergency ward stay	0.20	0.08	0.09	0.14
	CCU stay	0.27	0.10	0.12	0.20
	ICU stay	0.26	0.06	0.11	0.18
	Regular ward stay	0.43	0.32	0.28	0.36
Echocardiogram	Emergency ward stay	1.08	0.37	0.59	0.80
	CCU stay	1.00	0.40	0.57	0.76
	ICU stay	1.00	0.27	0.55	0.73
	Regular ward stay	2.10	1.43	1.32	1.74
Transesophageal echocardiogram	Emergency ward stay	0.05	0.02	0.01	0.03
	CCU stay	0.09	0.03	0.03	0.06
	ICU stay	0.09	0.02	0.02	0.06
	Regular ward stay	0.13	0.14	0.09	0.12
Treadmill	Emergency ward stay	0.00	0.00	0.01	0.00
	CCU stay	0.01	0.00	0.01	0.01
	ICU stay	0.00	0.00	0.00	0.00
	Regular ward stay	0.13	0.12	0.18	0.14
Holter monitoring	Emergency ward stay	0.00	0.02	0.01	0.01
	CCU stay	0.06	0.01	0.02	0.04
	ICU stay	0.05	0.00	0.01	0.03
	Regular ward stay	0.24	0.21	0.15	0.21
24-h ambulatory BP monitoring	Emergency ward stay	0.03	0.00	0.00	0.02
	CCU stay	0.01	0.00	0.00	0.01
	ICU stay	0.02	0.00	0.00	0.01
	Regular ward stay	0.15	0.11	0.09	0.13
Cardiac catheterization	Emergency ward stay	0.18	0.13	0.06	0.14
	CCU stay	0.88	0.41	0.37	0.64
	ICU stay	0.17	0.25	0.05	0.15
	Regular ward stay	1.15	1.02	0.56	0.95

	Emergency ward stay	1.18	0.63	0.50	0.88
Coronary angiography	CCU stay	3.16	1.04	1.23	2.18
	ICU stay	2.28	0.42	0.54	1.41
	Regular ward stay	5.97	3.30	2.62	4.47
SPECT	Emergency ward stay	0.00	0.02	0.00	0.00
	CCU stay	0.09	0.04	0.02	0.06
	ICU stay	0.18	0.03	0.02	0.10
Coronary CT	Regular ward stay	0.41	0.37	0.40	0.40
	Emergency ward stay	0.07	0.07	0.09	0.07
	CCU stay	0.05	0.03	0.03	0.04
Thorax/Cardiac CT	ICU stay	0.03	0.02	0.03	0.03
	Regular ward stay	0.14	0.17	0.14	0.15
	Emergency ward stay	0.28	0.11	0.14	0.21
Cardiac MRI	CCU stay	0.11	0.06	0.08	0.09
	ICU stay	0.12	0.04	0.08	0.09
	Regular ward stay	0.21	0.17	0.19	0.19
Cardiac PET	Emergency ward stay	0.01	0.00	0.00	0.00
	CCU stay	0.02	0.02	0.01	0.02
	ICU stay	0.06	0.00	0.01	0.03
Thorax USG	Regular ward stay	0.11	0.09	0.08	0.10
	Emergency ward stay	0.03	0.01	0.02	0.02
	CCU stay	0.21	0.16	0.08	0.16
Abdominal USG	ICU stay	0.09	0.04	0.07	0.07
	Regular ward stay	1.73	0.91	0.70	1.27
	Emergency ward stay	0.09	0.05	0.06	0.07
Renal USG	CCU stay	0.06	0.03	0.04	0.05
	ICU stay	0.05	0.02	0.02	0.04
	Regular ward stay	0.11	0.04	0.04	0.08
Lower extremity USG	Emergency ward stay	0.09	0.07	0.11	0.09
	CCU stay	0.06	0.06	0.06	0.06
	ICU stay	0.08	0.02	0.04	0.06
Cardiopulmonary exercise test	Regular ward stay	0.12	0.25	0.22	0.18
	Emergency ward stay	0.02	0.02	0.02	0.02
	CCU stay	0.02	0.01	0.01	0.02
Lower extremity USG	ICU stay	0.03	0.01	0.01	0.02
	Regular ward stay	0.05	0.04	0.04	0.05
	Emergency ward stay	0.01	0.01	0.01	0.01
Cardiopulmonary exercise test	CCU stay	0.01	0.01	0.01	0.01
	ICU stay	0.01	0.01	0.01	0.01
	Regular ward stay	0.12	0.04	0.03	0.08
Cardiopulmonary exercise test	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	0.00	0.00	0.01	0.00
	ICU stay	0.00	0.00	0.00	0.00
	Regular ward stay	0.05	0.15	0.03	0.06

	Emergency ward stay	0.00	0.00	0.00	0.00
Six-minute walk test	CCU stay	0.01	0.00	0.01	0.01
	ICU stay	0.00	0.00	0.00	0.00
	Regular ward stay	0.06	0.18	0.13	0.10
Endomyocardial biopsy	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	0.17	0.04	0.06	0.11
	ICU stay	0.15	0.02	0.03	0.09
	Regular ward stay	0.27	0.28	0.21	0.26
Other organ biopsies	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	0.02	0.00	0.01	0.01
	ICU stay	0.02	0.00	0.01	0.02
	Regular ward stay	0.06	0.06	0.04	0.05
Bone scintigraphy	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	0.01	0.14	0.00	0.03
	ICU stay	0.00	0.12	0.00	0.02
	Regular ward stay	0.09	0.50	0.14	0.18
Biochemistry					
Renal function testsa	Emergency ward stay	0.40	0.20	0.25	0.32
	CCU stay	0.64	0.29	0.35	0.49
	ICU stay	0.65	0.24	0.32	0.47
	Regular ward stay	1.20	1.08	0.78	1.05
Fasting blood glucose	Emergency ward stay	0.04	0.02	0.03	0.03
	CCU stay	0.07	0.04	0.05	0.06
	ICU stay	0.09	0.03	0.04	0.06
Postprandial blood glucose	Regular ward stay	0.14	0.13	0.11	0.13
	Emergency ward stay	0.04	0.03	0.04	0.04
	CCU stay	0.09	0.04	0.06	0.07
	ICU stay	0.08	0.03	0.06	0.07
HbA1c	Regular ward stay	0.13	0.10	0.11	0.12
	Emergency ward stay	0.04	0.02	0.02	0.03
	CCU stay	0.07	0.03	0.03	0.05
	ICU stay	0.05	0.02	0.03	0.04
Uric acid	Regular ward stay	0.13	0.10	0.09	0.11
	Emergency ward stay	0.03	0.01	0.02	0.02
	CCU stay	0.05	0.02	0.02	0.04
	ICU stay	0.05	0.02	0.02	0.03
Liver function testsb	Regular ward stay	0.10	0.07	0.06	0.09
	Emergency ward stay	0.36	0.18	0.22	0.28
	CCU stay	0.53	0.27	0.27	0.40
	ICU stay	0.62	0.23	0.25	0.44
Electrolytesc	Regular ward stay	1.09	0.94	0.58	0.91
	Emergency ward stay	0.35	0.17	0.29	0.30
	CCU stay	0.62	0.27	0.34	0.47
	ICU stay	0.85	0.22	0.31	0.57
	Regular ward stay	1.20	0.94	0.78	1.03

	Emergency ward stay	0.06	0.03	0.02	0.04
Lipid profiled	CCU stay	0.12	0.08	0.08	0.10
	ICU stay	0.12	0.05	0.07	0.09
	Regular ward stay	0.33	0.29	0.26	0.30
Urinalysis	Emergency ward stay	0.02	0.01	0.01	0.02
	CCU stay	0.02	0.01	0.01	0.01
	ICU stay	0.02	0.01	0.01	0.02
	Regular ward stay	0.05	0.03	0.03	0.04
Urine culture	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	0.01	0.00	0.01	0.01
	ICU stay	0.01	0.00	0.01	0.01
	Regular ward stay	0.02	0.01	0.01	0.02
NT-proBNP/BNP	Emergency ward stay	0.80	0.37	0.48	0.62
	CCU stay	0.79	0.35	0.42	0.60
	ICU stay	0.86	0.30	0.41	0.62
	Regular ward stay	1.04	0.81	0.73	0.91
Creatine kinase MB	Emergency ward stay	0.27	0.12	0.16	0.21
	CCU stay	0.12	0.06	0.07	0.09
	ICU stay	0.14	0.05	0.06	0.10
	Regular ward stay	0.14	0.11	0.10	0.12
Troponin	Emergency ward stay	0.59	0.26	0.32	0.45
	CCU stay	0.26	0.14	0.15	0.21
	ICU stay	0.27	0.11	0.14	0.20
	Regular ward stay	0.27	0.25	0.21	0.25
Procalcitonin	Emergency ward stay	0.21	0.07	0.09	0.15
	CCU stay	0.15	0.05	0.06	0.11
	ICU stay	0.16	0.05	0.10	0.12
C-reactive protein	Regular ward stay	0.17	0.15	0.12	0.15
	Emergency ward stay	0.04	0.02	0.03	0.03
	CCU stay	0.03	0.01	0.03	0.03
	ICU stay	0.05	0.01	0.03	0.03
D-dimer	Regular ward stay	0.06	0.05	0.05	0.05
	Emergency ward stay	0.33	0.13	0.25	0.27
	CCU stay	0.16	0.06	0.07	0.11
	ICU stay	0.16	0.05	0.08	0.12
Microalbuminuria	Regular ward stay	0.23	0.19	0.14	0.20
	Emergency ward stay	0.03	0.01	0.01	0.02
	CCU stay	0.04	0.01	0.03	0.03
	ICU stay	0.05	0.01	0.02	0.03
Thyroid function tests	Regular ward stay	0.21	0.07	0.09	0.15
	Emergency ward stay	0.09	0.04	0.06	0.07
	CCU stay	0.22	0.11	0.14	0.17
	ICU stay	0.21	0.08	0.12	0.16
	Regular ward stay	0.62	0.46	0.47	0.54

	Emergency ward stay	0.12	0.06	0.07	0.09
Arterial blood gases	CCU stay	0.11	0.04	0.07	0.08
	ICU stay	0.19	0.06	0.07	0.13
	Regular ward stay	0.09	0.06	0.06	0.07
Venous blood gases	Emergency ward stay	0.05	0.03	0.03	0.04
	CCU stay	0.04	0.02	0.02	0.03
	ICU stay	0.09	0.02	0.04	0.06
Hematology	Regular ward stay	0.06	0.04	0.03	0.05
	Emergency ward stay	0.17	0.09	0.12	0.14
	CCU stay	0.21	0.10	0.13	0.17
Complete blood count	ICU stay	0.31	0.09	0.12	0.21
	Regular ward stay	0.45	0.32	0.33	0.39
	Emergency ward stay	0.30	0.17	0.21	0.25
Coagulation tests ^e	CCU stay	0.38	0.15	0.18	0.28
	ICU stay	0.40	0.13	0.17	0.28
	Regular ward stay	0.81	0.63	0.52	0.69
Serum iron	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	0.01	0.00	0.00	0.01
	ICU stay	0.01	0.00	0.00	0.00
Serum iron binding capacity	Regular ward stay	0.03	0.02	0.02	0.02
	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	0.01	0.00	0.00	0.01
Transferrin saturation	ICU stay	0.01	0.00	0.00	0.00
	Regular ward stay	0.03	0.02	0.02	0.02
	Emergency ward stay	0.01	0.00	0.01	0.01
Ferritin	CCU stay	0.07	0.02	0.04	0.05
	ICU stay	0.05	0.02	0.02	0.04
	Regular ward stay	0.23	0.15	0.15	0.19
Vitamin B12	Emergency ward stay	0.01	0.00	0.00	0.00
	CCU stay	0.04	0.02	0.02	0.03
	ICU stay	0.04	0.01	0.02	0.03
Folic acid	Regular ward stay	0.12	0.08	0.08	0.10
	Emergency ward stay	0.00	0.00	0.00	0.00
	CCU stay	0.03	0.01	0.02	0.02
Homocysteine	ICU stay	0.02	0.01	0.01	0.01
	Regular ward stay	0.11	0.07	0.08	0.09
	Emergency ward stay	0.00	0.00	0.00	0.00
Monitoring procedures	CCU stay	0.03	0.01	0.02	0.03
	ICU stay	0.03	0.01	0.01	0.02
	Regular ward stay	0.10	0.05	0.07	0.08
Monitoring procedures	Emergency ward stay	0.01	0.00	0.00	0.00
	CCU stay	0.02	0.00	0.01	0.01
	ICU stay	0.01	0.00	0.01	0.01
Monitoring procedures	Regular ward stay	0.03	0.02	0.02	0.02

	Emergency ward stay	0.00	0.00	0.00	0.00
Oxygen saturation monitoring	CCU stay	0.00	0.00	0.00	0.00
	ICU stay	0.00	0.00	0.00	0.00
	Regular ward stay	0.00	0.00	0.00	0.00
	Emergency ward stay	0.00	0.00	0.00	0.00
Arterial BP monitoring	CCU stay	1.86	0.43	0.68	1.24
	ICU stay	0.00	0.00	0.00	0.00
	Regular ward stay	0.00	0.00	0.00	0.00
	Emergency ward stay	0.00	0.00	0.00	0.00
Swan-Ganz catheterization	CCU stay	0.12	0.02	0.04	0.07
	ICU stay	0.00	0.00	0.00	0.00
	Regular ward stay	0.00	0.00	0.00	0.00
Total cost of healthcare resource utilization during inpatient management		207.73	77.10	89.46	147.79

BP: blood pressure; CCU: cardiology care unit; CT: computerized tomography; ICU: intensive care unit; HFmrEF: mid-range ejection fraction; MRI: magnetic resonance imaging; HFpEF: preserved ejection fraction; PET: positron emission tomography; HFrEF: reduced ejection fraction; USG: ultrasonography; ^aBUN, creatinine & GFR, ^bALT, AST, AP, LDH, bilirubin & GGT, ^cNa, K, Cl, Ca & P, ^dtotal cholesterol, LDL-cholesterol, HDL cholesterol & triglycerides, ^ePT, aPTT & INR

SUPPLEMENTARY TABLE 8. Cost Components of Medications

Medications		Annual costs (\$/patient-year)			
		HFmrEF	HFpEF	All patients	
HFrEF	Total	361.08	197.99	208.61	284.85
	Outpatient	255.16	175.40	183.52	218.73
	Inpatient	105.92	22.59	25.09	66.12
Diuretic PO (furosemide)	Outpatient	15.26	9.08	9.85	12.48
	Inpatient	0.67	0.19	0.21	0.44
Diuretic IV (furosemide)	Outpatient	0.10	0.15	0.05	0.09
	Inpatient	2.81	0.91	0.86	1.87
Beta-blocker (metoprolol, bisoprolol, carvedilol & nebivolol)	Outpatient	41.23	35.83	30.97	37.19
	Inpatient	0.86	0.30	0.35	0.60
ACEi (ramipril)	Outpatient	42.87	36.39	35.61	39.49
	Inpatient	0.89	0.31	0.42	0.64
ARB (valsartan, candesartan & losartan)	Outpatient	10.08	10.25	12.81	10.90
	Inpatient	0.26	0.08	0.16	0.19
Mineralocorticoid receptor antagonist (spironolactones)	Outpatient	16.55	10.39	6.90	12.54
	Inpatient	0.41	0.11	0.11	0.27
Selective aldosterone receptor antagonist (eplerenon)	Outpatient	13.29	8.69	4.14	9.73
	Inpatient	0.50	0.15	0.04	0.30
Vasodilator (isosorbid mononitrate)	Outpatient	4.86	3.87	7.42	5.41
	Inpatient	0.15	0.05	0.12	0.12
Digoxin PO	Outpatient	1.73	0.68	1.38	1.43
	Inpatient	0.08	0.02	0.01	0.05
Digoxin IV	Outpatient	0.00	0.00	0.00	0.00
	Inpatient	0.03	0.01	0.02	0.02
Dobutamine	Outpatient	0.11	0.00	0.00	0.06
	Inpatient	3.74	0.95	0.00	2.11
Dopamine	Outpatient	0.03	0.00	0.00	0.01
	Inpatient	0.95	0.32	0.04	0.56
Levosimendan	Outpatient	2.67	0.00	0.00	1.37
	Inpatient	53.60	5.26	1.12	28.88
Ivabradine	Outpatient	8.34	2.90	0.30	4.94
	Inpatient	0.27	0.06	0.04	0.16
Warfarin	Outpatient	2.17	1.82	2.15	2.10
	Inpatient	0.05	0.01	0.03	0.03
NOAC (rivaroxaban, apixaban & edoxaban)	Outpatient	30.65	27.68	38.16	32.26
	Inpatient	0.64	0.19	0.40	0.48
Heparin	Outpatient	0.00	0.00	0.00	0.00
	Inpatient	0.53	0.08	0.27	0.36
Low molecular weight heparin	Outpatient	4.61	1.27	1.27	2.98
	Inpatient	3.62	1.03	1.54	2.51
ARNI (sacubitril-valsartan)	Outpatient	0.00	0.00	0.00	0.00
	Inpatient	0.00	0.00	0.00	0.00
Amiodarone PO	Outpatient	2.56	1.03	1.26	1.88
	Inpatient	0.10	0.02	0.03	0.07

Amiodarone IV	Outpatient	0.03	0.03	0.03	0.03
	Inpatient	0.41	0.11	0.17	0.28
Acetazolamide	Outpatient	0.17	0.09	0.09	0.13
	Inpatient	0.04	0.01	0.01	0.03
Tolvaptan	Outpatient	18.70	0.41	0.41	9.80
	Inpatient	6.48	1.21	2.29	4.23
Potassium IV	Outpatient	0.00	0.00	0.00	0.00
	Inpatient	0.06	0.03	0.02	0.04
Magnesium IV	Outpatient	0.00	0.00	0.00	0.00
	Inpatient	0.00	0.00	0.00	0.00
Polystyrene sulphate	Outpatient	0.09	0.02	0.05	0.07
	Inpatient	0.01	0.00	0.00	0.00
Iron IV (ferric carboxymaltose)	Outpatient	31.77	20.02	26.09	27.82
	Inpatient	17.61	8.03	11.44	13.94
Norepinephrine	Outpatient	0.00	0.00	0.00	0.00
	Inpatient	0.43	0.07	0.06	0.25
Epinephrine	Outpatient	0.00	0.00	0.00	0.00
	Inpatient	0.02	0.00	0.00	0.01
Lidocaine	Outpatient	0.00	0.00	0.00	0.00
	Inpatient	0.02	0.01	0.01	0.02
Iloprost	Outpatient	1.62	0.00	0.00	0.83
	Inpatient	5.77	1.17	2.45	3.90
Pneumococcal vaccine	Outpatient	3.35	2.70	2.60	3.00
	Inpatient	3.17	1.17	1.77	2.38
Influenza vaccine	Outpatient	2.33	2.09	2.00	2.19
	Inpatient	1.75	0.73	1.10	1.36

ACEi: angiotensin converting enzyme inhibitors; ARB: angiotensin receptor blocker; ARNI: angiotensin receptor neprilysin inhibitor; IV: intravenous; HFmrEF: mid-range ejection fraction; NOAC: novel oral anticoagulant; HFpEF: preserved ejection fraction; PO: per oral; HFrEF: reduced ejection fraction

SUPPLEMENTARY TABLE 9. Cost Components of Non-pharmaceutical Treatments

Non-pharmaceutical treatments	Annual costs (\$/patient-year)			
	HFrEF	HFmrEF	HFpEF	All patients
Total	495.16	205.80	269.60	372.98
Palliative	134.70	58.86	56.93	97.25
Permanent/continuous	360.45	146.94	212.67	275.73
Outpatient setting				
Paracentesis	0.07	0.00	0.01	0.04
Thoracentesis	0.10	0.01	0.16	0.10
Oxygen treatment	0.53	0.08	0.08	0.31
Temporary pacemaker	0.02	0.02	0.02	0.02
Intraaortic balloon pump	0.00	0.00	0.00	0.00
ECMO	0.00	0.00	0.00	0.00
Electrical cardioversion	0.02	0.02	0.03	0.02
Cardiopulmonary resuscitation	0.11	0.12	0.08	0.10
Ultrafiltration	0.03	0.02	0.09	0.05
Inpatient setting				
Paracentesis	1.14	0.22	0.40	0.74
Thoracentesis	1.47	0.39	0.70	1.04
Oxygen treatment	0.47	0.12	0.18	0.31
Temporary pacemaker	1.86	0.50	0.63	1.24
Intraaortic balloon pump	23.38	4.72	2.55	13.68
ECMO	84.01	46.30	42.65	64.61
Electrical cardioversion	0.48	0.18	0.29	0.37
Cardiopulmonary resuscitation	0.75	0.29	0.53	0.59
Ultrafiltration	0.84	0.15	0.38	0.57
CPAP - BiPAP	11.42	3.67	5.54	8.19
Peritoneal dialysis	0.60	0.16	0.35	0.44
Hemodialysis	7.41	1.89	2.28	4.84
Permanent/continuous				
CPAP - BiPAP	15.44	10.29	10.29	12.94
Peritoneal dialysis	22.94	8.37	17.87	18.62
Hemodialysis	118.76	78.97	129.20	114.02
CRT-P	7.43	0.00	0.00	3.81
CRT-D	40.78	0.86	0.35	21.22
ICD	82.79	8.35	3.06	45.05
CABG	6.66	6.56	4.84	6.11
Coronary intervention	22.09	20.35	22.67	21.92
LVAD	12.68	0.00	0.00	6.51
Heart transplantation	1.85	0.00	0.00	0.95
Heart valve surgery	7.78	5.51	7.81	7.35
Mitraclip	0.06	0.00	0.02	0.04
TAVI	2.12	2.52	3.27	2.53
AF ablation	1.37	1.21	1.26	1.31
VT ablation	0.61	0.34	0.28	0.46
Physical therapy	17.08	3.59	11.75	12.89

AF: atrial fibrillation; BiPAP: bilevel positive airway pressure; CABG: coronary artery bypass grafting; CPAP: continuous positive airway pressure; CRT-D: cardiac resynchronization therapy defibrillator; CRT-P: cardiac resynchronization therapy pacemaker; ECMO: extracorporeal membrane oxygenation; ICD: implantable cardioverter defibrillator; LVAD: left ventricular assist device; HFmrEF: mid-range ejection fraction; HFpEF: preserved ejection fraction; HFrEF: reduced ejection fraction; TAVI: transcatheter aortic valve implantation; VT: ventricular tachycardia

SUPPLEMENTARY TABLE 10. Population Figures Used to Calculate the Number of HF Patients

Age	Total population		
	2019	2020	2021
Total	83'154'997	83'614'362	84'139'018
0-4	6'345'136	6'121'707	5'906'146
5-9	6'461'039	6'526'593	6'592'813
10-14	6'406'170	6'419'937	6'433'734
15-19	6'331'594	6'230'114	6'130'261
20-24	6'624'078	6'663'636	6'703'441
25-29	6'367'311	6'370'954	6'374'602
30-34	6'363'017	6'318'894	6'275'077
35-39	6'584'843	6'473'583	6'364'205
40-44	5'967'384	6'235'110	6'514'877
45-49	5'533'559	5'563'666	5'593'937
50-54	4'675'373	4'584'632	4'495'663
55-59	4'389'997	4'577'587	4'773'195
60-64	3'554'769	3'574'394	3'594'128
65-69	2'722'672	2'938'715	3'171'947
70-74	2'016'913	2'131'705	2'253'033
75-79	1'308'299	1'355'346	1'404'110
80-84	817'730	861'199	906'986
85-89	497'410	466'748	438'081
90+	187'703	199'842	212'784
	35+ population, 2021	HF prevalence	35+ HF patients, 2021
	39'722'945	2.84%	1'127'619
Reference	tuik.gov.tr	(50)	Calculation

HF:heart failure