

Appendix I. Baseline characteristics for men with or without ICD (all eligible men).

Baseline characteristic	ICD N=863	No ICD N=4,410
Age, years	75 (70, 80)	78 (71, 84)
White race	84% (709)	82% (3481)
Presentation		
Systolic BP	130 (112, 147)	133 (117, 152)
Heart rate	77 (66, 88)	84 (72, 98)
LVEF (%)	25 (20, 30)	25 (20, 30)
BMI	26.3 (23.5, 29.9)	25.6 (22.6, 29.4)
QRS duration, ms*	120 (98, 154) (n=234)	121 (100, 152) (n=1447)
Medical history		
Anemia	8% (70)	13% (571)
Ischemic heart disease	74% (636)	67% (2945)
Prior atrial arrhythmia	32% (274)	33% (1462)
Diabetes	36% (311)	38% (1663)
Hypertension	67% (579)	70% (3094)
Smoking in past 12 months	15% (133)	15% (645)
Chronic renal insufficiency	16% (138)	20% (861)
Dialysis	2% (14)	3% (139)
COPD or asthma	23% (201)	26% (1162)
Prior CVA or TIA	12% (102)	14% (621)
PAD	11% (96)	15% (655)
Depression	5% (47)	6% (259)
Medications†		
ACE-inhibitor or ARB	91% (665)	89% (3076)
Anticoagulant therapy	42% (317)	40% (1460)
Beta blocker	95% (771)	93% (3769)

Baseline characteristic	ICD N=863	No ICD N=4,410
Calcium channel blocker	13% (101)	17% (630)
Digoxin	35% (274)	29% (1115)
Diuretic	77% (599)	82% (3183)
Statin	47% (385)	44% (1757)
Labs‡		
BNP (pg/mL)	1092 (426, 1963)	1148 (606, 2106)
Sodium (mEq/L)	138 (136, 141)	138 (136, 141)
Hemoglobin (g/dL)	13.0 (11.7, 14.3)	12.5 (11.0, 13.9)
Creatinine (mg/dl)	1.3 (1.1, 1.8)	1.4 (1.1, 1.9)
BUN (mg/dl)	25 (18, 35)	26 (19, 38)
Hospital characteristics		
Geographic region		
Northeast	38% (327)	29% (1268)
Midwest	21% (177)	22% (968)
South	33% (282)	35% (1560)
West	9% (77)	14% (614)
Teaching hospital	76% (652)	60% (2631)
Rural site	1% (12)	8% (330)
Number of beds	475 (348, 601)	368 (228, 536)
Performs PCI for acute MI	94% (763)	86% (3522)
Performs cardiac surgery	92% (765)	74% (3037)
Performs heart transplants	23% (195)	8% (345)

Continuous variables are shown as median (25th, 75th percentiles) and are compared with Wilcoxon rank sum tests. Categorical variables are shown as percent (number) and are compared with Pearson chi-square tests. Only non-imputed values are used. *QRS duration has been collected in the GWTG-HF registry since February 2008, and has been required since Oct 2011. †Medications are from discharge where available, otherwise from admission. ‡Labs are from admission where available, otherwise from discharge.

Appendix II. Propensity matched model of survival in men and women with and without an ICD that includes those patients with ICD *in situ* at the time of HF hospitalization

	Women		Men	
	ICD	No ICD	ICD	No ICD
N	892	892	2129	2129
Follow-up duration among survivors (years)				
Median	2.8	2.8	3.0	2.6
25 th , 75 th percentiles	1.9, 4.8	1.7, 4.7	1.8, 4.7	1.4, 4.2
Min, max	0.03, 7.8	0.01, 7.7	0.02, 7.7	0.00, 8.0
Total deaths	529	553	1408	1416
Mortality rate (KM) at 1 year (95% CI)	23.6% (20.9, 26.6)	28.6% (25.7, 31.7)	29.6% (27.7, 31.6)	32.0% (30.0, 34.0)
Mortality rate (KM) at 3 years (95% CI)	50.6% (47.1, 54.2)	55.9% (52.4, 59.4)	57.0% (54.7, 59.2)	59.8% (57.5, 62.1)
Unadjusted HR (95% CI) for ICD vs. no ICD	0.88 (0.76, 1.01), p=0.075		0.92 (0.85, 1.01), p=0.068	
P-value for interaction of gender with ICD	0.46			