**Supplementary Items**

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| Supplementary Table 1. Clinical variables considered for modeling |
| Demographics | **Medication Use** | **Medical History/****Heart Failure Status** | **Clinical and Fitness** |
| * Age
* Sex
* Race
* Body Mass Index
* Employment Status at Baseline
* Highest Level of Education
* Annual Income at Baseline
* Region (4 regions of the USA, Canada, France)
* Marital Status at Baseline
* Season of the Year at Baseline
* Smoking Status
 | * HMG-CoA Reductase Inhibitor (Statins)
* Baseline use of Beta-blocker
* Presence of Two Diuretics at Baseline
* Baseline use of ACE-Inhibitor
* Spiro- or Eplerenone
* Baseline Beta Blocker Dose
* Baseline Loop Diuretic Dose
* Baseline ACE Inhibitor Dose
* On a Loop Diuretic
* On Insulin
* On another Diuretic
* On a Nitrate
 | * Etiology of Heart Failure
* NYHA class II vs. III/IV
* Left-ventricular Ejection Fraction
* Ventricular Conduction
* Weber Class
* Atrial Fibrillation/Flutter
* Canadian Angina Class
* History of Myocardial Infarction
* History of Diabetes
* Previous Revascularization
* Automatic Implantable Cardioverter-Defibrillator in Baseline Cardiac Procedure List
* Bi-ventricular Pacemaker in Baseline Cardiac Procedure List
* History of Peripheral Vascular Disease
* History of Chronic Obstructed Pulmonary Disease
* On a Pacer at Baseline
* Hospitalizations in the Last 6 Mo
* Heart Failure Hospitalizations in the past 6 mo
* Mitral Regurgitation Grade by Echo
 | * Systolic BP at Baseline
* Diastolic BP at Baseline
* Baseline HR
* Peak Oxygen Pulse on Baseline CPX test
* HR at Peak Exercise
* CPX Test Duration
* Peak V̇O2
* Ve/VCO2 Slope
* HR Reserve on CPX Test
* Peak Respiratory Exchange Ratio on Baseline CPX test
* HR at the end of the Second Stage of the CPX test
* Rest ECG Rhythm on Baseline CPX test
* 6-Minute Walk test
* Hemoglobin
* Creatinine
* Sodium
* Blood Urea Nitrogen
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| Abbreviations: ACE, angiotensin-converting enzyme; BP, blood pressure; CPX, cardiopulmonary exercise test; ECG, electrocardiogram; HR, heart rate; NYHA, New York Heart Association; Ve/VCO2, ventilation/carbon dioxide production relationship; V̇O2, oxygen uptake. |