**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 |
| 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. | | | |