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TITLE: IMPROVING PROGNOSTIC ASSESSMENT IN HEART FAILURE: THE INTERPLAY BETWEEN NYHA CLASSIFICATION AND CARDIOPULMONARY EXERCISE TESTING

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Background: For patients with heart failure (HF), the validity of the New York Heart Association (NYHA) functional class to assess prognosis may be limited when compared with the objective cardiopulmonary exercise test (CPET). Purpose: To investigate the prognostic value of NYHA classification and CPET parameters. Methods: We included the first CPET of every adult patient with HF who in a tertiary care center in Brazil. NYHA class was determined on the day of CPET or during the prior ambulatory wisit. NYHA and Weber classes were statified into "favorable" (NYHA I or II; Weber A or B) or "poor" (NYHA III or IV; Weber C or D), and subjects with discordant classes were scompared in a survival analysis. Primary endpoint was all-cause mortality at 5 years. We used a Cox proportional hazards model to estimate the probability of death in 5 years according to relative peak VO2 and NYHA class, adjusted for age and sex. Results: We included 855 patients, of which 30% (255) were classified as NYHA I, 43% (368) as NYHA II, 24% (202) as NYHA III, and 4% (30) as NYHA IV. Mean age was 56 years (±13), 42% (359) were female, and mean LVEF was 36% (±15). Mean relative peak VO2 ranged from 19.6 (NYHA I) to 14.0 (INYHA IV) m/k/grinin. Patients with por NYHA and poor Weber classes (shpayed similar rates of all-cause mortality as patients with favorable NYHA and poor Weber classes (hazard ratio 1.54 [95% cl. 0.82. 30].

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