10,505,818 Korean adults who underwent the Korean National Health Screening between January 2009 and December 2009

- 785,618 Excluded
  - 15,327 Younger than 20 years of age
  - 561,049 Missing data of baseline characteristics and covariates
  - 209,242 Previously diagnosed with heart failure (ICD code I50 plus at least 1 hospitalization)

F/U period 6.3 years

9,720,200 Participants newly diagnosed with heart failure assessed using the claim records of National Health Insurance System until the end of 2015

**Supplementary Fig. 1.** Selection of the study participants. ICD, International Classification of Diseases; F/U, follow-up.