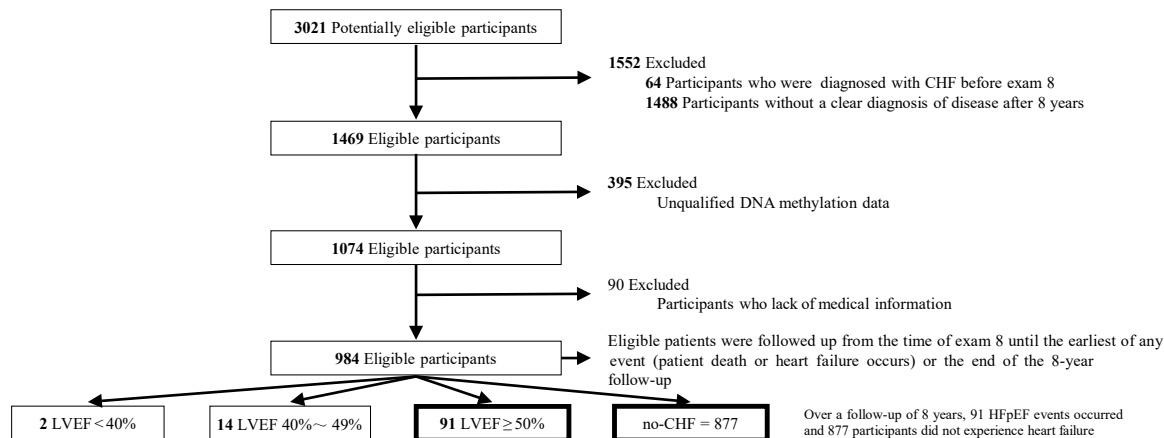


# FHS offspring cohort exam 8



Training set  
797 UMN batch  
HFpEF = 59, no-CHF = 738

Testing set  
171 JHU batch  
HFpEF = 32, no-CHF = 139

Final results

- Exclusion criteria
- missing sample > 20%
  - two-group comparisons of chi-square test/Mann-Whitney U test  $P > 0.05$
  - The Pearson correlation between two clinical features was greater than 0.8, the clinical feature with a smaller Spearman's correlation (i.e. less correlated with HFpEF)
  - The proportional characteristics of cells in whole blood

- Exclusion criteria
- log fold change < threshold
  - adjusted  $P > 0.05$

95 EHR

DNA methylation  
402,380

25 EHR

318 DMP

Lasso

80 features

Xgboost

30 features

DeepFM

Training model