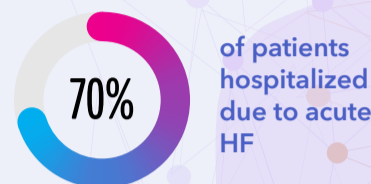
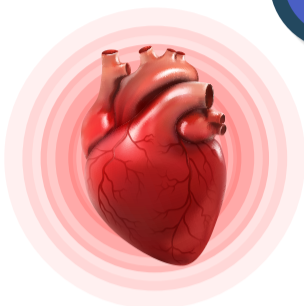




..... Anemia and ID are both fairly common in heart failure (HF)



ID occurs in approximately 50% of chronic stable heart failure patients, and up to 70% of patients hospitalized due to acute HF. The prevalence of ID is similar in patients with heart failure with preserved ejection fraction (HFpEF) or heart failure with reduced ejection fraction (HFrEF).



..... In heart failure patients, ID is often associated with reduced functional capacity, quality of life, and life expectancy and is often independent of the presence of anemia.



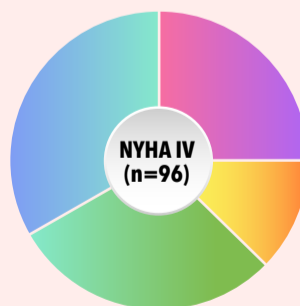
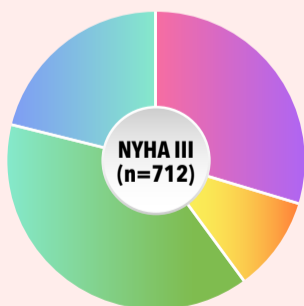
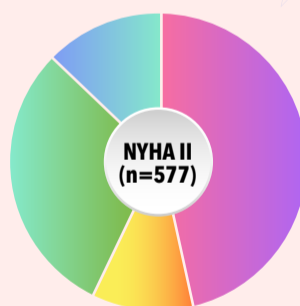
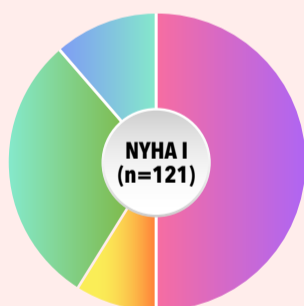
..... Approximately half of all patients with heart failure have either **absolute** iron deficiency or **functional** iron deficiency, and ID is only partly associated with the presence of anemia. **25-42% of patients with HF have ID in the absence of anemia.**



..... Iron Deficiency is common especially among women, in patients with advanced HF, or those with higher levels of inflammation.



..... The ID prevalence often increases with the New York Heart Association (NYHA) HF functional class:



■ No iron deficiency / no anemia  
■ Iron deficiency / no anemia  
■ No iron deficiency / anemia  
■ Iron deficiency / anemia



#### REFERENCES:

- Anand IS, Pankaj G. Anemia and iron deficiency in heart failure: current concepts and emerging therapies. *Circulation* 2018;138:89-98.
- Beavers CJ et al. "Iron deficiency in heart failure: a scientific statement from the Heart Failure Society of America." *Journal of Cardiac Failure* 29.7 (2023): 1059-1077.
- Ebner, Nicole, and Stephan von Haehling. "Why is Iron Deficiency Recognised as an Important Comorbidity in Heart Failure?." *Cardiac failure review* 5.3 (2019): 173.
- Fedele, Francesco, et al. "Heart Failure and Iron Deficiency." *Iron Deficiency Anemia*. IntechOpen, 2018.
- Jankowska, Ewa A., et al. "Iron deficiency: an ominous sign in patients with systolic chronic heart failure." *European heart journal* 31.15 (2010): 1872-1880.
- Klip, IJsbrand T., et al. "Iron deficiency in chronic heart failure: an international pooled analysis." *American heart journal* 165.4 (2013): 575-582.