



Heart failure patient and anemia

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Introduction

Anemia: reduction of the total circulation red cell mass below normal limits

Heart failure: heart is unable to pump blood at a rate sufficient to meet the metabolic demands Of the tissue (1) .

The aim of study is to identify the adversely effect of anemia on the cardiovascular condition of patient with heart failure (3) .

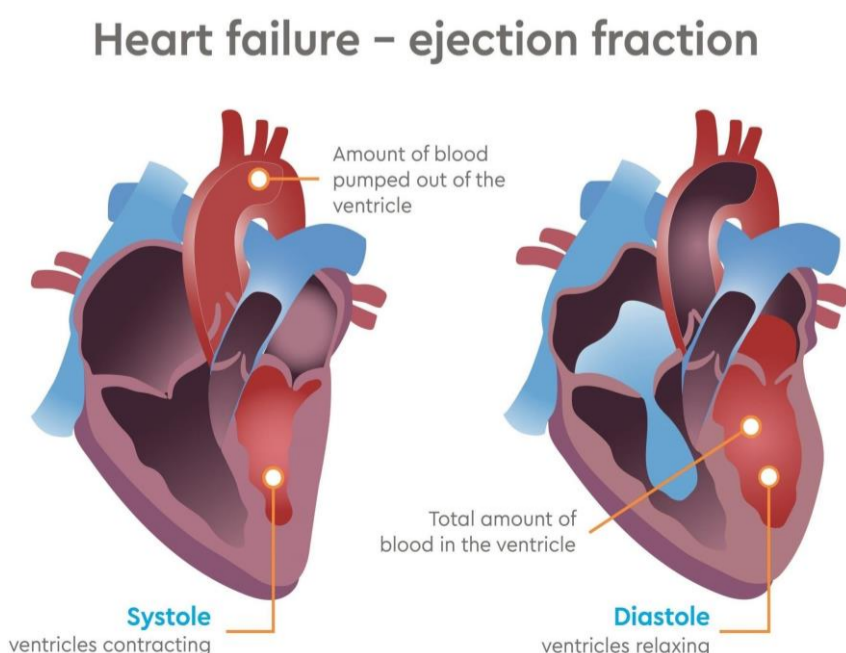


Figure 2 ejection fraction of the heart (2)

Method

The concentration of Hemoglobin level was measured for certain group of patient with heart failure. MRI was performed intermittently for a subgroup and after 24 weeks(3).

Results

	All study subject (n=921)	Subject not undergoing MRI (n=843)	Subject Undergoing MRI (n=69)
Mean(SD) Age. y	62 (12)	63 (12)	59 (12)
Male subject,%	78	78	78
I	0	0	0
II	23	23	29
IIIa	47	47	45
IIIb/IV	30	30	26
Mean (SD) LVEL	0.22 (0.06)	0.22 (0.06)	0.23 (0.05)

Table1. Baseline characteristics of the subjects enrolled in the RENAISSANCE trail (3).

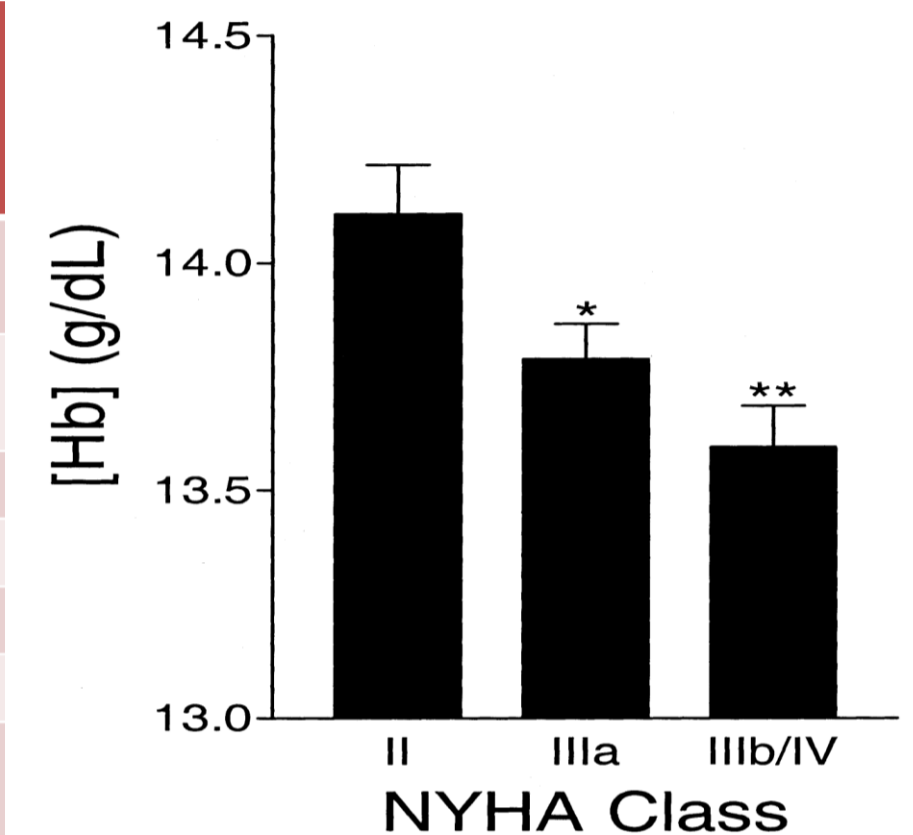


Figure 2.Greater severity of CHF is associated with lower Hb concentrations ([Hb])(3).

Discussion

The study showed that the patient who had lower concentration of HB was arise in the risk of greater CHF severities assessed by NYHA classification .

Anemia is frequent in CHF and is linked to worsening disease severity; nevertheless, Hb concentrations in these patients do not change much over time.

Finally, hemoglobin concentration is an independent risk factor for negative outcomes, and lower hemoglobin concentrations are linked to greater hospitalization and mortality rates in CHF patients(3).

Conclusions

Anemia is frequently present in patient with CHF (2).

Lower HB associated with greater disease severity and higher hospitalization and mortality rates(3).

Reference

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