

Tekin Cebeci CG, Gerede Uludag DM, Seda Tan T, et al. Evaluation of left ventricular functions in individuals with iron deficiency anemia by three-dimensional echocardiography and strain imaging method. Kardiol Pol. 2022.

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Iron deficiency anemia and exclusion criteria

Diagnostic criteria used of IDA: 1. Hb <12 g / dL in women, Hb <13 g / dL in men. 2. Hematocrit in women <35%, men <39%. 3. Serum iron concentration in women <50 µg / dL, men <65 µg / dL. 4. Serum transferrin saturation <10%. 5. Serum ferritin concentration in women <10 ng / dL, men <20 ng / dL [1].

Exclusion criteria include the following: 1. Known cardiovascular disease (Atherosclerotic heart disease, Hypertension, Valvular heart disease, Heart failure). 2. Patients with anemia due to reasons other than IDA (Thalassemia, Megaloblastic anemia, Sickle cell anemia, Microangiopathic hemolytic anemia, Hemoglobinopathies, Hematological malignancies, Chronic disease anemia). 3. Presence of comorbid diseases (Diabetes mellitus, Chronic kidney disease, Malignancy). 4. Patients with Hb value below 7 g/dL and hemodynamic instability secondary to anemia. 5. Lack of image quality for echocardiographic evaluation and strain analysis. 6. Unwilling to participate.

REFERENCES

1. Braunwald E, Fauci AS, Kasper DL, et al. Harrison's Principles of Internal Medicine. 15th 2001 (pp. 1491-1498). New York, NY, USA. McGraw-Hill.

Table 1S. Demographic characteristics of the study population

	Patient (n = 72)	Control (n = 38)	P-value
Age, years	38 (30–45)	45 (38.5–49)	0.03
Female, n (%)	69 (95.8)	36 (94.7)	1.00
Duration of IDA, months	12 (1–24)	—	

Heart rate, bpm	85 (77–95)	79 (71.5–77)	0.10
BMI, kg/m ²	24.2 (22.1–27.3)	25.6 (23–27.9)	0.32
SBP, mm Hg	113 (106–120)	121 (115–128)	0.09