
Is the obesity paradox present in left ventricular assist device recipients? A BMI-based analysis

Saad Ahmed Waqas,¹ Hibah Siddiqui,¹ Faouzi Kallel,² Shahzad Hassan³

¹Department of Medicine, Dow University of Health Sciences, Karachi, Pakistan

²Berlin Heals LLC, Berlin, Germany

³Division of Cardiovascular Medicine, Brigham and Women's Hospital, Boston, MA, USA

Corresponding Author: Saad Ahmed Waqas, MBBS, Dow University of Health Sciences, Karachi, Pakistan. E-mail: ahsaad404@gmail.com

Key words: Chronic HF treatment; ventricular assist devices; obesity analysis.

 ©The Author(s), 2025
Licensee [PAGEPress](#), Italy

Note: The publisher is not responsible for the content or functionality of any supporting information supplied by the authors. Any queries should be directed to the corresponding author for the article.
All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article or claim that may be made by its manufacturer is not guaranteed or endorsed by the publisher.

Table S1. ICD-10 CM of medical comorbidities.

Atrial fibrillation	I48.x
Cerebrovascular disease	G45.x, G46.x, H34.0, I60.x-I69.x
Heart failure	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, 142.5-I42.9, I43.x, I50.x, P29.0
Peripheral vascular disease	I70.x, I71.x, I73.1, I73.8, I73.9, I77.1, I79.0, I79.2, K55.1, K55.8, K55.9, Z95.8, Z95.9
Dementia	F00.x-F03.x, F05.1, G30.x, G31.1
Tobacco use disorder	Z72.0
Chronic obstructive pulmonary disease	I27.8, I27.9, J40.x-J47.x, J60.x-J67.x, J68.4, J70.1, J70.3
Valvular heart disease	A52.0, I05.x-I08.x, I09.1, I09.8, I34.x- I39.x, Q23.O-Q23.3, Z95.2, Z95.4 B18.x, I85.x, I86.4, I98.2, K70.x, K71.1, K71.3- K71.5, K71.7, K72.x-K74.x, K76.0, K76.2- K76.9. Z94.4
Liver disease	E10.0, E10.1, E10.6, E10.8, E10.9, E11.0, E11.1, E11.6, E11.8, E11.9, E12.0, E12.1, E12.6, E12.8, E12.9, E13.0, E13.1, E13.6, E13.8, E13.9, E14.0, E14.1, E14.6, E14.8, E14.9, E10.2-E10.5, E10.7, E11.2-E11.5, E11.7, E12.2-E12.5, E12.7, E13.2- E13.5, E13.7, E14.2-E14.5, E14.7
Diabetes mellitus	I10.x, I11.x-I13.x, I15.x
Hypertension	I10.x, I11.x-I13.x, I15.x
Chronic kidney disease	N18.x
Dialysis dependence	Z99.2
Anemia	D50.0, D50.8, D50.9, D51.x-D53.x
Hyperlipidemia	E78.x
Cancer	C00.x-C26.x, C30.x-C34.x, C37.x- C41.x, C43.x, C45.x-C58.x, C60.x- C76.x, C81.x-C85.x, C88.x, C90.x- C97.x
Previous MI	I25.2
Previous PCI	Z95.5, Z98.61
Previous CABG	Z95.1
