

“The Failure of the L.U.B. and D.U.B.”

By: Emily Chong, Alisha Dharia, Tanish Kalidindi, and Ashish Prince

References

- Agnetti, G., Piepoli, M. F., Siniscalchi, G., & Nicolini, F. (2015). New Insights in the Diagnosis and Treatment of Heart Failure. *BioMed research international*, 2015, 265260.
<https://doi.org/10.1155/2015/265260>
- American Heart Association. (2022, March 4). How High Blood Pressure Can Lead to Heart Failure.
<https://www.heart.org/en/health-topics/high-blood-pressure/health-threats-from-high-blood-pressure/how-high-blood-pressure-can-lead-to-heart-failure>.
- Alvarez, P., Hannawi, B., & Guha, A. (2016). *Exercise and heart failure: Advancing Knowledge and Improving Care*. Methodist DeBakey cardiovascular journal. Retrieved July 8, 2022, from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4969018/>.
- Bellumkonda, L., Tyrrell, D., Hummel, S. L., & Goldstein, D. R. (2017, March 7). Pathophysiology of heart failure and frailty: a common inflammatory origin? *Wiley Online Library*, 16, 444-450.
<https://onlinelibrary.wiley.com/doi/epdf/10.1111/ace.12581>.
- Berliner, D., Hänselmann, A., & Bauersachs, J. (2020, May 22). *The treatment of heart failure with reduced ejection fraction*. *Deutsches Arzteblatt international*. Retrieved July 8, 2022, from <https://pubmed.ncbi.nlm.nih.gov/32843138/>.
- Bozkurt, B., & Khalaf, S. (2017, October 1). *Methodist DeBakey Cardiovascular Journal*. Retrieved July 8, 2022, from <https://journal.houstonmethodist.org/article/10.14797/mdcj-13-4-216/>.
- Brandão, M., & Caeiro, D. (2020, September 11). *The right ventricle in advanced heart failure: The dark side of the moon*. *Revista Portuguesa de Cardiologia*. Retrieved July 8, 2022, from

<https://www.sciencedirect.com/science/article/pii/S0870255120303784?via%3Dihub>.

Dunlay, S. M., Roger, V. L., & Redfield, M. M. (2017, May 11). *Epidemiology of heart failure with preserved ejection fraction*. Nature News. Retrieved July 8, 2022, from <https://www.nature.com/articles/nrcardio.2017.65>.

Figuerola, M., & Peters, J. (2006, April 5). *Congestive heart failure: Diagnosis, pathophysiology, therapy, and implications for respiratory care*. Respiratory care. Retrieved July 8, 2022, from <https://pubmed.ncbi.nlm.nih.gov/16563194/>.

Francis, G. S., & Tang, W. H. H. (2003, February 20). Pathophysiology of Congestive Heart Failure. *IMR Press*, 4(S2), 14-20.
<https://www.imrpress.com/journal/RCM/4/S2/pii/1561439354908-1912032169>.

Inamdar, A. A., & Inamdar, A. C. (2016). Heart Failure: Diagnosis, Management and Utilization. *Journal of clinical medicine*, 5(7), 62. <https://doi.org/10.3390/jcm5070062>

Konstam, M. A., Kiernan, M. S., Bernstein, D., Bozkurt, B., Jacob, M., Kapur, N. K., Kociol, R. D., Lewis, E. F., Mehra, M. R., Pagani, F. D., Raval, A. N., & Ward, C. (2018, April 12). *Evaluation and management of right-sided heart failure: A scientific statement from the American Heart Association*. Circulation. Retrieved July 8, 2022, from <https://www.ahajournals.org/doi/10.1161/CIR.0000000000000560>.

Lawson, C. A., Zaccardi, F., Squire, I., Okhai, H., Davies, M., Huang, W., Mamas, M., Lam, C. S. P., Khunti, K., & Kadam, U. T. (2020, February 14). *Risk factors for heart failure*. Circulation: Heart Failure. Retrieved July 8, 2022, from <https://www.ahajournals.org/doi/10.1161/CIRCHEARTFAILURE.119.006472>.

Ledwidge M;Gallagher J;Conlon C;Tallon E;O'Connell E;Dawkins I;Watson C;O'Hanlon R;Birmingham M;Patle A;Badabhagn MR;Murtagh G;Voon V;Tilson L;Barry M;McDonald L;Maurer

B;McDonald K; (n.d.). *Natriuretic peptide-based screening and collaborative care for heart failure: The stop-HF randomized trial*. JAMA. Retrieved July 8, 2022, from <https://pubmed.ncbi.nlm.nih.gov/23821090/>.

Machaj, F., Dembowska, E., Rosik, J., Szostak, B., Mazurek-Mochol, M., & Pawlik, A. (2019). New therapies for the treatment of heart failure: a summary of recent accomplishments. *Therapeutics and clinical risk management*, 15, 147–155. <https://doi.org/10.2147/TCRM.S179302>

Mayo Clinic. (2021, February 26). Aortic Valve Stenosis. <https://www.mayoclinic.org/diseases-conditions/aortic-stenosis/symptoms-causes/syc-20353139>.

Mayo Clinic. (2021, February 26). Ventricular Septal Defect (VSD). <https://www.mayoclinic.org/diseases-conditions/ventricular-septal-defect/symptoms-causes/syc-20353495>.

Mayo Clinic. (2021, August 12). Aortic Valve Regurgitation. [https://www.mayoclinic.org/diseases-conditions/aortic-valve-regurgitation/symptoms-causes/syc-20353129#:~:text=Aortic%20valve%20regurgitation%20%E2%80%94%20or%20aortic,\(left%20ventricle\)%20leaks%20backward](https://www.mayoclinic.org/diseases-conditions/aortic-valve-regurgitation/symptoms-causes/syc-20353129#:~:text=Aortic%20valve%20regurgitation%20%E2%80%94%20or%20aortic,(left%20ventricle)%20leaks%20backward).

Mayo Clinic. (2022, January 14). High blood pressure dangers: Hypertension’s effects on your body. <https://www.mayoclinic.org/diseases-conditions/high-blood-pressure/in-depth/high-blood-pressure/art-20045868#:~:text=High%20blood%20pressure%20for%20the,Heart%20failure>.

Mayo Clinic. (2022, March 1). Atrial Septal Defect (ASD). <https://www.mayoclinic.org/diseases-conditions/atrial-septal-defect/symptoms-causes/syc-20369715>.

McDonagh, T. A., Metra, M., Adamo, M., Gardner, R. S., Baumbach, A., Böhm, M., Burri, H., Butler, J., Chioncel, O., Cleland, J. G. F., Coats, A. J. S., Crespo-Leiro, M. G., Farmakis, D., Gilard, M., Heymans, S., Hoes, A. W., Jaarsma, T., Jankowska, E. A., Lainscak, M., ... Kathrine Skibelund, A. (2021, August 27). *2021 ESC guidelines for the diagnosis and treatment of acute and chronic heart failure: Developed by the Task Force for the diagnosis and treatment of acute and chronic*

heart failure of the European Society of Cardiology (ESC) with the special contribution of the Heart Failure Association (HFA) of the ESC. OUP Academic. Retrieved July 8, 2022, from <https://academic.oup.com/eurheartj/article/42/36/3599/6358045>

Mosterd, A., & Hoes, A. W. (2007, September). *Clinical epidemiology of heart failure.* Heart (British Cardiac Society). Retrieved July 8, 2022, from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1955040/>.

NHLBI. (2022, March 24). Arrhythmias Conduction Disorders. <https://www.nhlbi.nih.gov/health/conduction-disorders#:~:text=A%20conduction%20disorder%2C%20also%20known,your%20heart%20to%20the%20bottom.>

Nord. (2009). Endocardial Fibroelastosis. <https://rarediseases.org/rare-diseases/endocardial-fibroelastosis#:~:text=The%20symptoms%20of%20endocardial%20fibroelastosis,lead%20to%20congestive%20heart%20failure.>

Ohio University. (2021, December 7). What is Pathophysiology in Nursing? <https://onlinemasters.ohio.edu/blog/what-is-pathophysiology-in-nursing/>.

Pagidipati, N. J., & Svetkey, L. P. (2021, May 24). *Time for a renewed focus on the dash-low sodium diet.* Journal of the American College of Cardiology. Retrieved July 8, 2022, from <https://www.sciencedirect.com/science/article/pii/S0735109721011487?via%3Dihub>.

Penn Medicine. (2022). Aortic Valve Stenosis. <https://www.pennmedicine.org/for-patients-and-visitors/patient-information/conditions-treated-a-to-z/aortic-valve-stenosis#:~:text=Over%20time%2C%20aortic%20valve%20stenosis,may%20lead%20to%20heart%20failure.>

Porter, T. R., Eckberg, D. L., Fritsch, J. M., Rea, R. F., Beightol, L. A., Schmedtje Jr, J. F., & Mohanty, P. K. (1990, May 1). Autonomic pathophysiology in heart failure patients. Sympathetic-cholinergic

- interrelations. *The Journal of Clinical Investigation*, 85(5), 1362-1371.
<https://www.jci.org/articles/view/114580>.
- Rope, K. (2022, January 27). Complications of High Potassium Levels. *WebMD*.
<https://www.webmd.com/a-to-z-guides/high-potassium-complications>.
- Schwinger, R. (2021). Pathophysiology of heart failure. *Cardiovascular diagnosis and therapy*, 11(1), 263–276. <https://doi.org/10.21037/cdt-20-302>.
- Sean P. Murphy, M. B. (2020, August 4). *Heart failure with reduced Ejection Fraction: A Review*. JAMA. Retrieved July 8, 2022, from <https://jamanetwork.com/journals/jama/article-abstract/2768982>.
- Shah, A., Gandhi, D., Srivastava, S., Shah, K. J., & Mansukhani, R. (2017). Heart Failure: A Class Review of Pharmacotherapy. *P & T : a peer-reviewed journal for formulary management*, 42(7), 464–472. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5481297/>
- Sevilla-Cazes, J., Ahmad, F. S., Bowles, K. H., Jaskowiak, A., Gallagher, T., Goldberg, L. R., Kangovi, S., Alexander, M., Riegel, B., Barg, F. K., & Kimmel, S. E. (2018, July 10). *Heart failure home management challenges and reasons for readmission: A qualitative study to understand the patient's perspective - Journal of General Internal Medicine*. SpringerLink. Retrieved July 8, 2022, from <https://link.springer.com/article/10.1007/s11606-018-4542-3>.
- Snipelisky, D., Chaudhry, S.-P., & Stewart, G. C. (2018, December 24). *The many faces of heart failure*. Cardiac Electrophysiology Clinics. Retrieved July 8, 2022, from [https://www.cardiacep.theclinics.com/article/S1877-9182\(18\)30113-8/fulltext](https://www.cardiacep.theclinics.com/article/S1877-9182(18)30113-8/fulltext).
- Struthers, A. D. (2005). Pathophysiology of heart failure following myocardial infarction. *BMJ Journals*, 91(2), 14-16. https://heart.bmj.com/content/heartjnl/91/suppl_2/ii14.full.pdf.
- Watson, S. (2017, August 22). Hyperemia. *Healthline*. <https://www.healthline.com/health/hyperemia>.
- WebMD. (n.d.). *Congestive heart failure risk factors & prevention*. WebMD. Retrieved July 8, 2022, from



<https://www.webmd.com/heart-disease/heart-failure/understanding-heart-failure-prevention>.