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REFERENCES

Agarwal, A.K., Raja, A. and Brown, B.D. (2021). *Chronic Obstructive Pulmonary Disease*. [online] PubMed. Available at: https://www.ncbi.nlm.nih.gov/books/NBK559281/#:~:text=Chronic%20obstructive%20pulmonary%20disease%20(COPD)%20is%20a%20common%20and%20treatable [Accessed 17 Mar. 2021].

Ahmed, A., Husain, A., Love, T.E., Gambassi, G., Dell'Italia, L.J., Francis, G.S., Gheorghiade, M., Allman, R.M., Meleth, S. and Bourge, R.C. (2006). Heart failure, chronic diuretic use, and increase in mortality and hospitalization: an observational study using propensity score methods. *European Heart Journal*, 27(12), pp.1431–1439.

Ahmed, A., Rich, M.W., Love, T.E., Lloyd-Jones, D.M., Aban, I.B., Colucci, W.S., Adams, K.F. and Gheorghiade, M. (2006). Digoxin and Reduction in Mortality and Hospitalization in Heart Failure: A Comprehensive Post-Hoc Analysis of the DIG Trial. *European heart journal*, [online] 27(2), pp.178–186. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2685167/ [Accessed 7 Dec. 2021].

Akhter, M. W., Aronson, D., Bitar, F., Khan, S., Singh, H., Singh, R. P., Elkayam, U. 2004. Effect of elevated admission serum creatinine and its worsening on outcome in hospitalized patients with decompensated heart failure. *The American Journal of Cardiology*. 94(7):957–960.

Al-Gobari, M., Le, H.-H., Fall, M., Gueyffier, F. and Burnand, B. (2017). No benefits of statins for sudden cardiac death prevention in patients with heart failure and reduced ejection fraction: A meta-analysis of randomized controlled trials. *PLOS ONE*, 12(2), p.e0171168.

Alehagen, U., Benson, L., Edner, M., Dahlström, U. and Lund, L.H. (2015). Association Between Use of Statins and Mortality in Patients With Heart Failure and Ejection Fraction of ≥50%. *Circulation: Heart Failure*, 8(5), pp.862–870.

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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Anker, S.D. (2004). Inflammatory mediators in chronic heart failure: an overview. *Heart*, [online] 90(4), pp.464–470. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1768165/ [Accessed 14 Jan. 2021].

Aquilani, R., Opasich, C., Verri, M., Boschi, F., Febo, O., Pasini, E. and Pastoris, O. (2003). Is nutritional intake adequate in chronic heart failure patients? *Journal of the American College of Cardiology*, [online] 42(7), pp.1218–1223. Available at: https://pubmed.ncbi.nlm.nih.gov/14522484/ [Accessed 4 Dec. 2021].

Artero, E.G., Lee, D., Lavie, C.J., España-Romero, V., Sui, X., Church, T.S. and Blair, S.N. (2012). Effects of Muscular Strength on Cardiovascular Risk Factors and Prognosis. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 32(6), pp.351–358.

Arumugham, V.B. and Shahin, M.H. (2020). *Therapeutic Uses Of Diuretic Agents*. [online] PubMed. Available at: https://www.ncbi.nlm.nih.gov/books/NBK557838/.

Ateet Kosaraju and Makaryus, A.N. (2019). *Left Ventricular Ejection Fraction*. [online] Nih.gov. Available at: https://www.ncbi.nlm.nih.gov/books/NBK459131/.

Baena-Díez, J. M., Byram, A. O., Grau, M., Gómez-Fernández, C., Vidal-Solsona, M., Ledesma-Ulloa, G., González-Casafont, I., Vasquez-Lazo, J., Subirana, I., & Schroder, H. (2010). Obesity is an independent risk factor for heart failure: Zona Franca Cohort study. *Clinical cardiology*, *33*(12), 760–764. https://doi.org/10.1002/clc.20837

Banks, E., Joshy, G., Korda, R.J., Stavreski, B., Soga, K., Egger, S., Day, C., Clarke, N.E., Lewington, S. and Lopez, A.D. (2019). Tobacco smoking and risk of 36 cardiovascular disease subtypes: fatal and non-fatal outcomes in a large prospective Australian study. *BMC Medicine*, 17(1).

Barrett-Connor, E. (1989). Cigarette Smoking and Increased Central Adiposity. *Annals of Internal Medicine*, 111(10), p.783.

Baxmann, A.C., Ahmed, M.S., Marques, N.C., Menon, V.B., Pereira, A.B., Kirsztajn, G.M. and Heilberg, I.P. (2008). Influence of Muscle Mass and Physical Activity on Serum and Urinary Creatinine and Serum Cystatin C.

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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Clinical Journal of the American Society of Nephrology, [online] 3(2), pp.348–354. Available at: https://cjasn.asnjournals.org/content/3/2/348.

Bays, H.E., Chapman, R.H. and Grandy, S. (2007). The relationship of body mass index to diabetes mellitus, hypertension and dyslipidaemia: comparison of data from two national surveys. *International Journal of Clinical Practice*, 61(5), pp.737–747.

Berliner, D. & Bauersachs, J. (2017). Current Drug Therapy in Chronic Heart Failure: the New Guidelines of the European Society of Cardiology (ESC). *Korean Circulation Journal*, 47(5), p.543.

Bhurosy, T. & Jeewon, R. (2013). Pitfalls Of Using Body Mass Index (BMI) In Assessment Of Obesity Risk. *Current Research in Nutrition and Food Science Journal*, [online] 1(1), pp.71–76. Available at: http://www.foodandnutritionjournal.org/volume1number1/pitfalls-of-using-body-mass-index-bmi-in-assessment-of-obesity-risk/.

Boron, Walter F.; Boulpaep, Emile L. (2005). Medical Physiology: A Cellular and Molecular Approach (Updated ed.). Saunders. p. 533. ISBN 978-0-7216-3256-8.

Bredy, C., Ministeri, M., Kempny, A., Alonso-Gonzalez, R., Swan, L., Uebing, A., Diller, G.-P., Gatzoulis, M.A. and Dimopoulos, K. (2018). New York Heart Association (NYHA) classification in adults with congenital heart disease: relation to objective measures of exercise and outcome. *European Heart Journal. Quality of Care & Clinical Outcomes*, [online] 4(1), pp.51–58. Available at: https://pubmed.ncbi.nlm.nih.gov/28950356/ [Accessed 18 Dec. 2021].

Carbone, S., Canada, J.M., Billingsley, H.E., Siddiqui, M.S., Elagizi, A. and Lavie, C.J. (2019). Obesity paradox in cardiovascular disease: where do we stand? *Vascular Health and Risk Management*, [online] Volume 15, pp.89–100. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6503652/.

Casas-Vara, A., Santolaria, F., Fernández-Bereciartúa, A., González-Reimers, E., García-Ochoa, A., & Martínez-Riera, A. (2012). The obesity paradox in elderly patients with heart failure: analysis of nutritional status. *Nutrition (Burbank, Los Angeles County, Calif.)*, *28*(6), 616–622. https://doi.org/10.1016/j.nut.2011.10.006

UNIVERSITAS GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Cattadori, G., Di Marco, S., Farina, S., Limongelli, G., Monda, E., Badagliacca, R., Papa, S., Tricarico, L. and Correale, M. (2020). Beta-blockers in heart failure prognosis: Lessons learned by MECKI Score Group papers. *European Journal of Preventive Cardiology*, 27(2_suppl), pp.65–71.

CDC (2019). *Heart Failure*. [online] Centers for Disease Control and Prevention. Available at: https://www.cdc.gov/heartdisease/heart_failure.htm

Chandramouli, C., Tay, W.T., Bamadhaj, N.S., Tromp, J., Teng, T.-H.K., Yap, J.J.L., MacDonald, M.R., Hung, C.-L., Streng, K., Naik, A., Wander, G.S., Sawhney, J., Ling, L.H., Richards, A.M., Anand, I., Voors, A.A. and Lam, C.S.P. (2019). Association of obesity with heart failure outcomes in 11 Asian regions: A cohort study. *PLOS Medicine*, 16(9), p.e1002916.

Clark, A.L. (2016). Tipping the scales toward fitness as a key modifier of the obesity paradox in heart failure. *European Journal of Heart Failure*, 18(5), pp.554–555.

Coats, A. J. (2000). The pathophysiology of chronic heart failure. *Perfusion*, *15*(4), 281–286. https://doi.org/10.1177/026765910001500402

Collis, T., Devereux, R.B., Roman, M.J., de Simone, G., Yeh, J.-L., Howard, B.V., Fabsitz, R.R. and Welty, T.K. (2001). Relations of Stroke Volume and Cardiac Output to Body Composition. *Circulation*, [online] 103(6), pp.820–825. Available at: https://www.ahajournals.org/doi/pdf/10.1161/01.cir.103.6.820 [Accessed 27 Oct. 2020].

Curtis, J.P., Selter, J.G., Wang, Y., Rathore, S.S., Jovin, I.S., Jadbabaie, F., Kosiborod, M., Portnay, E.L., Sokol, S.I., Bader, F. and Krumholz, H.M. (2005). The Obesity Paradox. *Archives of Internal Medicine*, [online] 165(1), p.55. Available at: https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/486350 [Accessed 1 Feb. 2020].

David, M.N.V. & Shetty, M. (2020). *Digoxin*. [online] PubMed. Available at: https://www.ncbi.nlm.nih.gov/books/NBK556025/.

De Rosa, M., Gambardella, J., Shu, J., & Santulli, G. (2018). Dietary fat is a key determinant in balancing mitochondrial dynamics in heart failure: a novel mechanism underlying the obesity paradox. *Cardiovascular research*, *114*(7), 925–927. https://doi.org/10.1093/cvr/cvy074

UNIVERSITAS GADJAH MADA
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Dekkers, J.C., van Wier, M.F., Hendriksen, I.J., Twisk, J.W. and van Mechelen, W. (2008). Accuracy of self-reported body weight, height and waist circumference in a Dutch overweight working population. *BMC Medical Research Methodology*, 8(1).

Dini, F.L., Ghio, S., Klersy, C., Rossi, A., Simioniuc, A., Scelsi, L., Genta, F.T., Cicoira, M., Tavazzi, L. and Temporelli, P.L. (2013). Effects on survival of loop diuretic dosing in ambulatory patients with chronic heart failure using a propensity score analysis. *International Journal of Clinical Practice*, 67(7), pp.656–664.

Donini, L. M., Pinto, A., Giusti, A. M., Lenzi, A., & Poggiogalle, E. (2020). Obesity or BMI Paradox? Beneath the Tip of the Iceberg. *Frontiers in nutrition*, *7*, 53. https://doi.org/10.3389/fnut.2020.00053

Doughty, R.N., Rodgers, A., Sharpe, N. and MacMahon, S. (1997). Effects of beta-blocker therapy on mortality in patients with heart failure: A systematic overview of randomized controlled trials. *European Heart Journal*, [online] 18(4), pp.560–565. Available at: https://academic.oup.com/eurheartj/article/18/4/560/528414.

Enes, C. C., & Slater, B. (2010). Obesidade na adolescência e seus principais fatores determinantes [Obesity in adolescence and its main determinants]. *Revista brasileira de epidemiologia = Brazilian journal of epidemiology*, *13*(1), 163–171. https://doi.org/10.1590/s1415-790x2010000100015

Farsang, C. (2011). Indications for and utilization of angiotensin receptor II blockers in patients at high cardiovascular risk. *Vascular Health and Risk Management*, [online] p.605. doi: 10.2147/VHRM.S23468 [Accessed 27 Nov. 2021].

Faselis, C., Arundel, C., Patel, S., Lam, P.H., Gottlieb, S.S., Zile, M.R., Deedwania, P., Filippatos, G., Sheriff, H.M., Zeng, Q., Morgan, C.J., Wopperer, S., Nguyen, T., Allman, R.M., Fonarow, G.C. and Ahmed, A. (2020). Loop Diuretics and 30-Day Outcomes in Heart Failure. *American College of Cardiology*, 76(6), pp.669–679.

Frank, J.E. (2013). Managing Hypertension Using Combination Therapy. *American Family Physician*, [online] 77(9), pp.1279–1286. Available at: https://www.aafp.org/afp/2008/0501/p1279.html. [Accessed 21 Nov. 2021]

UNIVERSITAS GADJAH MADA
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Gheorghiade, M., Abraham, W.T., Albert, N.M., Greenberg, B.H., O'Connor, C.M., She, L., Stough, W.G., Yancy, C.W., Young, J.B., Fonarow, G.C. and OPTIMIZE-HF Investigators and Coordinators (2006). Systolic Blood Pressure at Admission, Clinical Characteristics, and Outcomes in Patients Hospitalized With Acute Heart Failure. *JAMA*, 296(18), p.2217.

Goossens, C., Marques, M.B., Derde, S., Vander Perre, S., Dufour, T., Thiessen, S.E., Güiza, F., Janssens, T., Hermans, G., Vanhorebeek, I., De Bock, K., Van den Berghe, G. and Langouche, L. (2016). Premorbid obesity, but not nutrition, prevents critical illness-induced muscle wasting and weakness. *Journal of Cachexia, Sarcopenia and Muscle*, 8(1), pp.89–101.

Grubb, A. & Mentz, R.J. (2020). Pharmacological management of atrial fibrillation in patients with heart failure with reduced ejection fraction: review of current knowledge and future directions. *Expert Review of Cardiovascular Therapy*, 18(2), pp.85–101.

Guo, Y., Wang, Z., Qin, X., Xu, J., Hou, Z., Yang, H., Mao, X., Xing, W., Li, X., Zhang, X. and Gao, F. (2018). Enhancing fatty acid utilization ameliorates mitochondrial fragmentation and cardiac dysfunction via rebalancing optic atrophy 1 processing in the failing heart. *Cardiovascular Research*, [online] 114(7), pp.979–991. Available at: https://pubmed.ncbi.nlm.nih.gov/29490017/ [Accessed 19 Jan. 2021].

Gustafsson, F., Kragelund, C. B., Torp-Pedersen, C., Seibaek, M., Burchardt, H., Akkan, D., Thune, J. J., Køber, L., & DIAMOND study group (2005). Effect of obesity and being overweight on long-term mortality in congestive heart failure: influence of left ventricular systolic function. *European heart journal*, *26*(1), 58–64. https://doi.org/10.1093/eurheartj/ehi022

Hall, D. M., & Cole, T. J. (2006). What use is the BMI?. *Archives of disease in childhood*, *91*(4), 283–286. https://doi.org/10.1136/adc.2005.077339

Hasselblad, V., Stough, W.G., Shah, M.R., Lokhnygina, Y., O'Connor, C.M., Califf, R.M. and Adams, K.F. (2007). Relation between dose of loop diuretics and outcomes in a heart failure population: Results of the ESCAPE Trial. *European Journal of Heart Failure*, 9(10), pp.1064–1069.

Higuchi, Y., Otsu, K., Nishida, K., Hirotani, S., Nakayama, H., Yamaguchi, O., Matsumura, Y., Ueno, H., Tada, M. and Hori, M. (2002). Involvement of reactive oxygen species-mediated NF-kappa B activation in TNF-alpha-

UNIVERSITAS GADJAH MADA
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

induced cardiomyocyte hypertrophy. *Journal of Molecular and Cellular Cardiology*, [online] 34(2), pp.233–240. Available at: https://pubmed.ncbi.nlm.nih.gov/11851362/ [Accessed 19 Jan. 2021].

Hill, J.O. (2006). Understanding and Addressing the Epidemic of Obesity: An Energy Balance Perspective. *Endocrine Reviews*, 27(7), pp.750–761.

Hines, R.L. & Marschall, K.E. (2018) *Stoelting's anesthesia and co-existing disease*. 7th edn. Philadelphia: Elsevier, pp.199-223.

Hirai, T., Yamaga, R., Fujita, A. and Itoh, T. (2018). Low body mass index is a risk factor for hyperkalaemia associated with angiotensin converting enzyme inhibitors and angiotensin II receptor blockers treatments. *Journal of Clinical Pharmacy and Therapeutics*, 43(6), pp.829–835.

Horwich, T. B., Fonarow, G. C., Hamilton, M. A., MacLellan, W. R., Woo, M. A., & Tillisch, J. H. (2001). The relationship between obesity and mortality in patients with heart failure. *Journal of the American College of Cardiology*, *38*(3), 789–795. https://doi.org/10.1016/s0735-1097(01)01448-6

Jiwani, S., Mustafa, U., Desai, S. and Dominic, P. (2021). Survival Benefit of Aspirin in Patients With Congestive Heart Failure: A Meta-Analysis. *Journal of Clinical Medicine Research*, [online] 13(1), pp.38–47. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7869561/ [Accessed 29 Nov. 2021].

Jobe, L.J., Meléndez, G.C., Levick, S.P., Du, Y., Brower, G.L. and Janicki, J.S. (2009). TNF-α inhibition attenuates adverse myocardial remodeling in a rat model of volume overload. *American Journal of Physiology-Heart and Circulatory Physiology*, 297(4), pp.H1462–H1468.

Johnson, D., Jin, Y., Quan, H., Cujec, B. 2003. Beta-blockers and angiotensin-converting enzyme inhibitors/receptor blockers prescriptions after hospital discharge for heart failure are associated with decreased mortality in Alberta, Canada. *Journal of the American College of Cardiology.* 42(8):1438- 45.

Jura, M. & Kozak, Leslie.P. (2016). Obesity and related consequences to ageing. *AGE*, [online] 38(1). Available at: https://link.springer.com/article/10.1007/s11357-016-9884-3. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5005878/

UNIVERSITAS GADJAH MADA
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Kanter, R. & Caballero, B. (2012). Global Gender Disparities in Obesity: A Review. *Advances in Nutrition*, [online] 3(4), pp.491–498. Available at: https://academic.oup.com/advances/article/3/4/491/4591492.

Kapoor, J. R., & Heidenreich, P. A. (2010). Obesity and survival in patients with heart failure and preserved systolic function: a U-shaped relationship. *American heart journal*, *159*(1), 75–80. https://doi.org/10.1016/j.ahj.2009.10.026

Kellerman, R.D. & Rakel, D.P. (2021) *Conn's current therapy 2021*. Philadelphia: Elsevier, pp.112-115.

Kemp, C. D., & Conte, J. V. (2012). The pathophysiology of heart failure. *Cardiovascular pathology : the official journal of the Society for Cardiovascular Pathology*, *21*(5), 365–371. https://doi.org/10.1016/j.carpath.2011.11.007

Kenchaiah, S., Evans, J. C., Levy, D., Wilson, P. W., Benjamin, E. J., Larson, M. G., Kannel, W. B., & Vasan, R. S. (2002). Obesity and the risk of heart failure. *The New England journal of medicine*, *347*(5), 305–313. https://doi.org/10.1056/NEJMoa020245

Kenchaiah, S., Pocock, S.J., Wang, D., Finn, P.V., Zornoff, L.A.M., Skali, H., Pfeffer, M.A., Yusuf, S., Swedberg, K., Michelson, E.L., Granger, C.B., McMurray, J.J.V., Solomon, S.D. and CHARM Investigators (2007). Body mass index and prognosis in patients with chronic heart failure: insights from the Candesartan in Heart failure: Assessment of Reduction in Mortality and morbidity (CHARM) program. *Circulation*, [online] 116(6), pp.627–636. Available at: https://pubmed.ncbi.nlm.nih.gov/17638930/.

Khalil, H. & Zeltser, R. (2020). *Antihypertensive Medications*. [online] PubMed. Available at: https://www.ncbi.nlm.nih.gov/books/NBK554579/.

Khashayar, F. & Jan, A. (2019). *Beta Blockers*. [online] Nih.gov. Available at: https://www.ncbi.nlm.nih.gov/books/NBK532906/.

Khusun, H., Yip, R., Schultink, W., & Dillon, D. H. (1999). World Health Organization hemoglobin cut-off points for the detection of anemia are valid for an Indonesian population. *The Journal of nutrition*, *129*(9), 1669–1674. https://doi.org/10.1093/jn/129.9.1669

UNIVERSITAS GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Kohsari, M., Moradinazar, M., Rahimi, Z., Najafi, F., Pasdar, Y., Moradi, A. and Shakiba, E. (2021). Association between RBC Indices, Anemia, and Obesity-Related Diseases Affected by Body Mass Index in Iranian Kurdish Population: Results from a Cohort Study in Western Iran. *International Journal of Endocrinology*, [online] 2021, p.e9965728. Available at: https://www.hindawi.com/journals/ije/2021/9965728/ [Accessed 20 Nov. 2021].

Krysztofiak, H., Wleklik, M., Migaj, J., Dudek, M., Uchmanowicz, I., Lisiak, M., Kubielas, G., Straburzyńska-Migaj, E., Lesiak, M. and Kałużna-Oleksy, M. (2020). Cardiac Cachexia: A Well-Known but Challenging Complication of Heart Failure. *Clinical Interventions in Aging*, Volume 15, pp.2041–2051.

Le, H.-H., El-Khatib, C., Mombled, M., Guitarian, F., Al-Gobari, M., Fall, M., Janiaud, P., Marchant, I., Cucherat, M., Bejan-Angoulvant, T. and Gueyffier, F. (2016). Impact of Aldosterone Antagonists on Sudden Cardiac Death Prevention in Heart Failure and Post-Myocardial Infarction Patients: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *PLOS ONE*, 11(2), p.e0145958.

Lee, M.M.Y., Sattar, N., McMurray, J.J.V. and Packard, C.J. (2019). Statins in the Prevention and Treatment of Heart Failure: a Review of the Evidence. *Current Atherosclerosis Reports*, 21(10).https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6660504/

Lin, G. M., Li, Y. H., Jaiteh, L. E., & Han, C. L. (2013). The obesity paradox of mortality in patients with coronary artery disease undergoing percutaneous coronary intervention. *International journal of cardiology*, *167*(2), 597. https://doi.org/10.1016/j.ijcard.2012.09.216

Lopaschuk, G.D., Ussher, J.R., Folmes, C.D.L., Jaswal, J.S. and Stanley, W.C. (2010). Myocardial Fatty Acid Metabolism in Health and Disease. *Physiological Reviews*, 90(1), pp.207–258.

MacDonald, M.R., Petrie, M.C., Varyani, F., Ostergren, J., Michelson, E.L., Young, J.B., Solomon, S.D., Granger, C.B., Swedberg, K., Yusuf, S., Pfeffer, M.A. and McMurray, J.J.V. (2008). Impact of diabetes on outcomes in patients with low and preserved ejection fraction heart failure: An analysis of the Candesartan in Heart failure: Assessment of Reduction in Mortality and morbidity (CHARM) programme. *European Heart Journal*, 29(11), pp.1377–1385.

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Maddox, T.M., Januzzi, J.L., Allen, L.A., Breathett, K., Butler, J., Davis, L.L., Fonarow, G.C., Ibrahim, N.E., Lindenfeld, J., Masoudi, F.A., Motiwala, S.R., Oliveros, E., Patterson, J.H., Walsh, M.N., Wasserman, A., Yancy, C.W. and Youmans, Q.R. (2021). 2021 Update to the 2017 ACC Expert Consensus Decision Pathway for Optimization of Heart Failure Treatment: Answers to 10 Pivotal Issues About Heart Failure With Reduced Ejection Fraction. *Journal of the American College of Cardiology*, 77(6).

Mazıcıoğlu, M. M., Hatipoğlu, N., Oztürk, A., Ciçek, B., Ustünbaş, H. B., & Kurtoğlu, S. (2010). Waist circumference and mid-upper arm circumference in evaluation of obesity in children aged between 6 and 17 years. *Journal of clinical research in pediatric endocrinology*, *2*(4), 144–150. https://doi.org/10.4274/jcrpe.v2i4.144

McDonagh, T.A., Metra, M., Adamo, M., Gardner, R.S., Baumbach, A., Böhm, M., Burri, H., Butler, J., Čelutkienė, 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. and Lainscak, M. (2021). 2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. *European Heart Journal*. [Accessed 14 Okt. 2021].

Mei, Z., Grummer-Strawn, L.M., Wang, J., Thornton, J.C., Freedman, D.S., Pierson, R.N., Dietz, W.H. and Horlick, M. (2007). Do Skinfold Measurements Provide Additional Information to Body Mass Index in the Assessment of Body Fatness Among Children and Adolescents? *PEDIATRICS*, 119(6), pp.e1306–e1313.

Messerli, F.H., Bell, D.S.H., Fonseca, V., Katholi, R.E., McGill, J.B., Phillips, R.A., Raskin, P., Wright, J.T., Bangalore, S., Holdbrook, F.K., Lukas, M.A., Anderson, K.M., Bakris, G.L. and GEMINI Investigators (2007). Body weight changes with beta-blocker use: results from GEMINI. *The American Journal of Medicine*, [online] 120(7), pp.610–615. Available at: https://pubmed.ncbi.nlm.nih.gov/17602935/ [Accessed 30 Jun. 2021].

Miller, A.B. (2007). Aldosterone antagonism in heart failure. *Vascular Health and Risk Management*, [online] 3(5), pp.605–609. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2291304/.

Mohamed-Ali, V., Goodrick, S., Bulmer, K., Holly, J.M., Yudkin, J.S. and Coppack, S.W. (1999). Production of soluble tumor necrosis factor receptors by human subcutaneous adipose tissue in vivo. *The American*

UNIVERSITAS GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Journal of Physiology, [online] 277(6), pp.E971-975. Available at: https://pubmed.ncbi.nlm.nih.gov/10600783/ [Accessed 19 Jan. 2021].

Niriayo, Y.L., Asgedom, S.W., Demoz, G.T. and Gidey, K. (2020). Treatment optimization of beta-blockers in chronic heart failure therapy. *Scientific Reports*, [online] 10(1), p.15903. Available at: https://www.nature.com/articles/s41598-020-72836-4.

Nishida, C. (2004). *Appropriate body-mass index for Asian populations and its implications for policy and intervention strategies*. [online] WHO.int. Available at: https://www.who.int/nutrition/publications/bmi_asia_strategies.pdf [Accessed 17 Dec. 2020].

Nordestgaard, B.G., Palmer, T.M., Benn, M., Zacho, J., Tybjærg-Hansen, A., Davey Smith, G. and Timpson, N.J. (2012). The Effect of Elevated Body Mass Index on Ischemic Heart Disease Risk: Causal Estimates from a Mendelian Randomisation Approach. *PLoS Medicine*, 9(5), p.e1001212.

Nuttall F. Q. (2015). Body Mass Index: Obesity, BMI, and Health: A Critical Review. *Nutrition today*, *50*(3), 117–128. https://doi.org/10.1097/NT.0000000000000092

Oga, E.A. and Eseyin, O.R. (2016). The Obesity Paradox and Heart Failure: A Systematic Review of a Decade of Evidence. *Journal of Obesity*, 2016, pp.1–9.

Oh, S.W. and Han, S.Y. (2015). Loop Diuretics in Clinical Practice. *Electrolytes & Blood Pressure*, [online] 13(1), p.17. Available at: https://dx.doi.org/10.5049%2FEBP.2015.13.1.17.

Oreopoulos, A., Padwal, R., Kalantar-Zadeh, K., Fonarow, G.C., Norris, C.M. and McAlister, F.A. (2008). Body mass index and mortality in heart failure: a meta-analysis. *American Heart Journal*, [online] 156(1), pp.13–22. Available at: https://pubmed.ncbi.nlm.nih.gov/18585492/ [Accessed 19 Jan. 2021].

Ossa Galvis, M.M., Bhakta, R.T., Tarmahomed, A. and Mendez, M.D. (2020). *Cyanotic Heart Disease*. [online] PubMed. Available at: https://www.ncbi.nlm.nih.gov/books/NBK500001/.

UNIVERSITAS GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Paez Espinosa, E.V., Murad, J.P. and Khasawneh, F.T. (2012). Aspirin: Pharmacology and Clinical Applications. *Thrombosis*, 2012, pp.1–15.

Pappan, N. & Rehman, A. (2021). *Dyslipidemia*. [online] PubMed. Available at: https://pubmed.ncbi.nlm.nih.gov/32809726/ [Accessed 24 Dec. 2021].

Patten, M., Krämer, E., Bünemann, J., Wenck, C., Thoenes, M., Wieland, T. and Long, C. (2001). Endotoxin and cytokines alter contractile protein expression in cardiac myocytes in vivo. *Pflugers Archiv: European Journal of Physiology*, [online] 442(6), pp.920–927. Available at: https://pubmed.ncbi.nlm.nih.gov/11680626/ [Accessed 19 Jan. 2021].

Paul, S. (2002). Balancing Diuretic Therapy in Heart Failure: Loop Diuretics, Thiazides, and Aldosterone Antagonists. *Congestive Heart Failure*, 8(6), pp.307–312. https://onlinelibrary.wiley.com/doi/full/10.1111/j.1527-5299.2002.00700.x

Pérez-Cueto, F. J., Botti, A. B., & Verbeke, W. (2009). Prevalence of overweight in Bolivia: data on women and adolescents. *Obesity reviews : an official journal of the International Association for the Study of Obesity*, *10*(4), 373–377. https://doi.org/10.1111/j.1467-789X.2009.00575.x

Piirtola, M., Jelenkovic, A., Latvala, A., Sund, R., Honda, C., Inui, F., Watanabe, M., Tomizawa, R., Iwatani, Y., Ordoñana, J.R., Sánchez-Romera, J.F., Colodro-Conde, L., Tarnoki, A.D., Tarnoki, D.L., Martin, N.G., Montgomery, G.W., Medland, S.E., Rasmussen, F., Tynelius, P. and Tan, Q. (2018). Association of current and former smoking with body mass index: A study of smoking discordant twin pairs from 21 twin cohorts. *PLOS ONE*, 13(7), p.e0200140.

Ponikowski P, Voors AA, Anker SD, Bueno H, Cleland JGF, Coats AJS, Falk V, González-Juanatey JR, Harjola VP, Jankowska EA, Jessup M, Linde C, Nihoyannopoulos P, Parissis JT, Pieske B, Riley JP, Rosano GMC, Ruilope LM, Ruschitzka F, Rutten FH, van der Meer P; ESC Scientific Document Group. 2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure: The Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC)Developed with the special contribution of the Heart Failure Association (HFA) of the ESC. Eur Heart J. 2016 Jul 14;37(27):2129-2200. doi: 10.1093/eurheartj/ehw128. Epub 2016 May 20. Erratum in: Eur Heart J. 2016 Dec 30;: PMID: 27206819.

UNIVERSITAS GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Pujari, S.H. and Agasthi, P. (2020). *Aortic Stenosis*. [online] PubMed. Available at: https://www.ncbi.nlm.nih.gov/books/NBK557628/.

Purek, L. (2006). Coronary artery disease and outcome in acute congestive heart failure. *Heart*, 92(5), pp.598–602.

Qin, Y., Melse-Boonstra, A., Pan, X., Yuan, B., Dai, Y., Zhao, J., Zimmermann, M.B., Kok, F.J., Zhou, M. and Shi, Z. (2013). Anemia in relation to body mass index and waist circumference among chinese women. *Nutrition Journal*, [online] 12, p.10. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3548732/ [Accessed 20 Nov. 2021].

Ranasinghe, C., Gamage, P., Katulanda, P., Andraweera, N., Thilakarathne, S., & Tharanga, P. (2013). Relationship between Body Mass Index (BMI) and body fat percentage, estimated by bioelectrical impedance, in a group of Sri Lankan adults: a cross sectional study. *BMC public health*, *13*, 797. https://doi.org/10.1186/1471-2458-13-797

Riset Kesehatan Dasar (Riskesdas) (2018). Badan Penelitian dan Pengembangan Kesehatan Kementerian RI tahun 2018. http://www.depkes.go.id/resources/download/infoterkini/materi_rakorpop_2018/Hasil%20Riskesdas%202018.pdf> [Accessed 28 December 2020]

Romero-Corral, A., Somers, V. K., Sierra-Johnson, J., Thomas, R. J., Collazo-Clavell, M. L., Korinek, J., Allison, T. G., Batsis, J. A., Sert-Kuniyoshi, F. H., & Lopez-Jimenez, F. (2008). Accuracy of body mass index in diagnosing obesity in the adult general population. *International journal of obesity (2005)*, *32*(6), 959–966. https://doi.org/10.1038/ijo.2008.11

Rosano, G.M., Vitale, C. and Seferovic, P. (2017). Heart Failure in Patients with Diabetes Mellitus. *Cardiac Failure Review*, 03(01), p.52.

Rupprecht, L.E., Donny, E.C. and Sved, A.F. (2015). Obese Smokers as a Potential Subpopulation of Risk in Tobacco Reduction Policy. *The Yale Journal of Biology and Medicine*, [online] 88(3), pp.289–294. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4553649/.

Salahuddin, S., Prabhakaran, D. and Roy, A. (2012). Pathophysiological Mechanisms of Tobacco-Related CVD. *Global Heart*, 7(2), pp.113–120.

UNIVERSITAS GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Sandeep Sharma, Hashmi, M.F. and Bhattacharya, P.T. (2019). *Hypotension*. [online] Nih.gov. Available at: https://www.ncbi.nlm.nih.gov/books/NBK499961/.

Savarese, G., & Lund, L. H. (2017). Global Public Health Burden of Heart Failure. *Cardiac failure review*, *3*(1), 7–11. https://doi.org/10.15420/cfr.2016:25:2

Selkow, N.M., Pietrosimone, B.G. and Saliba, S.A. (2011). Subcutaneous Thigh Fat Assessment: A Comparison of Skinfold Calipers and Ultrasound Imaging. *Journal of Athletic Training*, 46(1), pp.50–54.

Sharma, A., Lavie, C.J., Borer, J.S., Vallakati, A., Goel, S., Lopez-Jimenez, F., Arbab-Zadeh, A., Mukherjee, D. and Lazar, J.M. (2015). Meta-analysis of the relation of body mass index to all-cause and cardiovascular mortality and hospitalization in patients with chronic heart failure. *The American Journal of Cardiology*, [online] 115(10), pp.1428–1434. Available at: https://pubmed.ncbi.nlm.nih.gov/25772740/ [Accessed 19 Jan. 2021].

Sierra-Johnson, J., Romero-Corral, A., Somers, V.K., Lopez-Jimenez, F., Thomas, R.J., Squires, R.W. and Allison, T.G. (2008). Prognostic importance of weight loss in patients with coronary heart disease regardless of initial body mass index. *European Journal of Cardiovascular Prevention & Rehabilitation*, 15(3), pp.336–340.

Silke, B. (2006). Beta-blockade in CHF: pathophysiological considerations. *European Heart Journal Supplements*, [online] 8(suppl_C), pp.C13–C18. Available at: https://academic.oup.com/eurheartjsupp/article/8/suppl_C/C13/422548 [Accessed 18 Jul. 2021].

Singh, S., Moore, H., Karasik, P.E., Lam, P.H., Wopperer, S., Arundel, C., Tummala, L., Anker, M.S., Faselis, C., Deedwania, P., Morgan, C.J., Zeng, Q., Allman, R.M., Fonarow, G.C. and Ahmed, A. (2020). Digoxin Initiation and Outcomes in Patients with Heart Failure (HFrEF and HFpEF) and Atrial Fibrillation. *The American Journal of Medicine*, 133(12), pp.1460–1470.

Sniecinski, R.M., Wright, S. and Levy, J.H. (2007). *Chapter 3 - Cardiovascular Pharmacology*. [online] ScienceDirect. Available at: https://www.sciencedirect.com/science/article/pii/B9780750675727500060 [Accessed 1 May 2020].

UNIVERSITAS GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Stanton, B.A. and Kaissling, B. (1988). Adaptation of distal tubule and collecting duct to increased Na delivery. II. Na+ and K+ transport. *The American Journal of Physiology*, [online] 255(6 Pt 2), pp.F1269-1275. Available at: https://pubmed.ncbi.nlm.nih.gov/3202190/ [Accessed 21 Nov. 2021].

Strait, J. B., & Lakatta, E. G. (2012). Aging-associated cardiovascular changes and their relationship to heart failure. *Heart failure clinics*, *8*(1), 143–164. https://doi.org/10.1016/j.hfc.2011.08.011

Thygesen, K., Alpert, J.S., White, H.D. and Joint ESC/ACCF/AHA/WHF Task Force for the Redefinition of Myocardial Infarction (2007). Universal definition of myocardial infarction. *European heart journal*, [online] 28(20), pp.2525–38. Available at: https://www.ncbi.nlm.nih.gov/pubmed/17951287 [Accessed 16 Feb. 2021].

Tymińska, A., Kapłon-Cieślicka, A., Ozierański, K., Peller, M., Balsam, P., Marchel, M., Crespo-Leiro, M.G., Maggioni, A.P., Jankowska, E.A., Drożdż, J., Filipiak, K.J. and Opolski, G. (2017). Anemia at Hospital Admission and Its Relation to Outcomes in Patients With Heart Failure (from the Polish Cohort of 2 European Society of Cardiology Heart Failure Registries). *The American Journal of Cardiology*, [online] 119(12), pp.2021–2029. Available at: https://pubmed.ncbi.nlm.nih.gov/28434647/.

Vaartjes, I., Hoes, A., Reitsma, J., de Bruin, A., Grobbee, D., Mosterd, A., *et al*. 2010. Age-and gender-specific risk of death after first hospitalization for heart failure. *BMC Public Health*.10(1)

Valente, M.A.E., Voors, A.A., Damman, K., Van Veldhuisen, D.J., Massie, B.M., O'Connor, C.M., Metra, M., Ponikowski, P., Teerlink, J.R., Cotter, G., Davison, B., Cleland, J.G.F., Givertz, M.M., Bloomfield, D.M., Fiuzat, M., Dittrich, H.C. and Hillege, H.L. (2014). Diuretic response in acute heart failure: clinical characteristics and prognostic significance. *European Heart Journal*, [online] 35(19), pp.1284–1293. Available at: https://pubmed.ncbi.nlm.nih.gov/24585267/ [Accessed 22 Dec. 2021].

Van Zee, K.J., Kohno, T., Fischer, E., Rock, C.S., Moldawer, L.L. and Lowry, S.F. (1992). Tumor necrosis factor soluble receptors circulate during experimental and clinical inflammation and can protect against excessive tumor necrosis factor alpha in vitro and in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, [online] 89(11), pp.4845–4849. Available at:

UNIVERSITAS GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC49184/ [Accessed 19 Jan. 2021].

Wannamethee, S.G., Shaper, A.G. and Perry, I.J. (1997). Serum Creatinine Concentration and Risk of Cardiovascular Disease. *Stroke*, 28(3), pp.557–563.

Wells, J.C.K., Marphatia, A.A., Cole, T.J. and McCoy, D. (2012). Associations of economic and gender inequality with global obesity prevalence: Understanding the female excess. *Social Science & Medicine*, 75(3), pp.482–490.

WHO (2021) *Cardiovascular diseases (CVDs)*. Available at: <https://www.who.int/en/news-room/fact-sheets/detail/cardiovascular-diseases-(cvds)> [Accessed 28 March 2021].

WHO | Obesity: preventing and managing the global epidemic. (2015). *Who.int*. [online] Available at: https://www.who.int/nutrition/publications/obesity/WHO_TRS_894/en/.

Who.int. (2020). "*Obesity And Overweight"*. [online] Available at: <https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight> [Accessed 28 December 2020].

World Health Organization (2000). *The Asia-Pacific perspective : redefining obesity and its treatment*. [online] *apps.who.int*. Sydney : Health Communications Australia. Available at: https://apps.who.int/iris/handle/10665/206936.

www.cdc.gov. (2019). *NHIS - Adult Tobacco Use - Glossary*. [online] Available at: https://www.cdc.gov/nchs/nhis/tobacco/tobacco_glossary.htm#:~:text=Smoking%20status%3A%20A%20recoded%20variable [Accessed 28 Apr. 2021].

Yao, Y.S., Li, T.D. and Zeng, Z.H. (2020). Mechanisms underlying direct actions of hyperlipidemia on myocardium: an updated review. Lipids in Health and Disease, 19(1).

Yousufuddin, M., Takahashi, P.Y., Major, B., Ahmmad, E., Al-Zubi, H., Peters, J., Doyle, T., Jensen, K., Al Ward, R.Y., Sharma, U., Seshadri, A., Wang, Z., Simha, V. and Murad, M.H. (2019). Association between hyperlipidemia and mortality after incident acute myocardial infarction or acute

UNIVERSITAS
GADJAH MADA
BODY MASS INDEX (BMI) AS THE MORTALITY PREDICTOR FOR PATIENTS WITH CHRONIC HEART FAILURE IN RSUP DR. SARDJITO: A RETROSPECTIVE COHORT
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

decompensated heart failure: a propensity score matched cohort study and a meta-analysis. *BMJ Open*, 9(12), p.e028638.

Yusuf, S., Pitt, B., Davis, C., Hood, W. and Cohn, J. (1991). Effect of Enalapril on Survival in Patients with Reduced Left Ventricular Ejection Fractions and Congestive Heart Failure. *New England Journal of Medicine*, 325(5), pp.293–302.

Yusuf, S.W. (2020). *Chronic congestive heart failure - Etiology | BMJ Best Practice US*. [online] bestpractice.bmj.com. Available at: https://bestpractice.bmj.com/topics/en-us/61/aetiology [Accessed 10 May 2021].

Zamora, E., Díez-López, C., Lupón, J., de Antonio, M., Domingo, M., Santesmases, J., Troya, M.I., Díez-Quevedo, C., Altimir, S. and Bayes-Genis, A. (2016). Weight Loss in Obese Patients With Heart Failure. *Journal of the American Heart Association*, [online] 5(3). Available at: https://www.ahajournals.org/doi/abs/10.1161/jaha.115.002468.

Zamora, E., Lupón, J., Urrutia, A., González, B., Mas, D., Pascual, T., Domingo, M., & Valle, V. (2007). El índice de masa corporal influye en la mortalidad de los pacientes con insuficiencia cardiaca? [Does body mass index influence mortality in patients with heart failure?]. *Revista espanola de cardiologia*, *60*(11), 1127–1134.