DAFTAR PUSTAKA

1. Humbert M, Kovacs G, Hoeper MM, et al. 2022 ESC/ERS Guidelines for the diagnosis and treatment of pulmonary hypertension: Developed by the task force for the diagnosis and treatment of pulmonary hypertension of the European Society of Cardiology (ESC) and the European Respiratory Society (ERS). Endorsed by the International Society for Heart and Lung Transplantation (ISHLT) and the European Reference Network on rare respiratory diseases (ERN-LUNG). European Heart Journal 2022;43:3618-731.
2. Levine DJ. Pulmonary arterial hypertension: updates in epidemiology and evaluation of patients. Am J Manag Care 2021;27:S35-S41.
3. Emmons-Bell S, Johnson C, Boon-Dooley A, et al. Prevalence, incidence, and survival of pulmonary arterial hypertension: A systematic review for the global burden of disease 2020 study. Pulmonary circulation 2022;12:e12020.
4. Dinarti LK, Anggrahini DW, Lilyasari O, Siswanto BB, Hartopo AB. Pulmonary arterial hypertension in Indonesia: Current status and local application of international guidelines. Global Heart 2021;16.
5. Muslimah UR. Gambaran Karakteristik Pasien Hipertensi Arteri Pulmonal Di RSUP DR. M. Djamil Padang Tahun 2017-2021: Universitas Andalas; 2022.
6. Laveneziana P, Garcia G, Joureau B, et al. Dynamic respiratory mechanics and exertional dyspnoea in pulmonary arterial hypertension. European Respiratory Journal 2013;41:578-87.
7. Malenfant S, Potus F, Mainguy V, et al. Impaired skeletal muscle oxygenation and exercise tolerance in pulmonary hypertension. Med Sci Sports Exerc 2015;47:2273-82.
8. Müller-Mottet S, Hildenbrand FF, Keusch S, et al. Effects of exercise and vasodilators on cerebral tissue oxygenation in pulmonary hypertension. Lung 2015;193:113-20.
9. Eichstaedt CA, Benjamin N, Xanthouli P, Marra AM, Grünig E. The role of rehabilitation in patients with pulmonary arterial hypertension. Current Opinion in Pulmonary Medicine 2019;25:398-404.
10. Bussotti M, Gremigni P, FE Pedretti R, et al. Effects of an outpatient service

rehabilitation programme in patients affected by pulmonary arterial hypertension: an observational study. Cardiovascular & Haematological Disorders-Drug Targets (Formerly Current Drug Targets-Cardiovascular & Hematological Disorders) 2017;17:3-10.

11. Grünig E, MacKenzie A, Peacock AJ, et al. Standardized exercise training is feasible, safe, and effective in pulmonary arterial and chronic thromboembolic pulmonary hypertension: results from a large European multicentre randomized controlled trial. European Heart Journal 2021;42:2284-95.
12. Schermuly RT, Ghofrani HA, Wilkins MR, Grimminger F. Mechanisms of disease: pulmonary arterial hypertension. Nature Reviews Cardiology 2011;8:443-55.
13. Bourgeois A, Omura J, Habbout K, Bonnet S, Boucherat O. Pulmonary arterial hypertension: new pathophysiological insights and emerging therapeutic targets. The international journal of biochemistry & cell biology 2018;104:9-13.
14. Thenappan T, Ormiston ML, Ryan JJ, Archer SL. Pulmonary arterial hypertension: pathogenesis and clinical management. Bmj 2018;360.
15. Tobal R, Potjewijd J, van Empel VP, et al. Vascular remodeling in pulmonary arterial hypertension: the potential involvement of innate and adaptive immunity. Frontiers in medicine 2021;8:806899.
16. Kiely DG, Lawrie A, Humbert M. Screening strategies for pulmonary arterial hypertension. European Heart Journal Supplements 2019;21:K9-K20.
17. Galiè N, Channick RN, Frantz RP, et al. Risk stratification and medical therapy of pulmonary arterial hypertension. European Respiratory Journal 2019;53.
18. Suciadi LP, Saboe A, Rahimah AF, et al. Hipertensi Arteri Pulmonal In: *Pedoman Diagnosis dan Tatalaksana Hipertensi Pulmonal*. Jakarta: Perhimpunan Dokter Spesialis Kardiovaskular Indonesia 2021;1:20-45.
19. Malenfant S, Lebret M, Breton-Gagnon É, et al. Exercise intolerance in pulmonary arterial hypertension: insight into central and peripheral pathophysiological mechanisms. European Respiratory Review 2021;30.
20. Handoko M, De Man F, Happe C, et al. Opposite effects of training in rats with stable and progressive pulmonary hypertension. Circulation 2009;120:42-9.
21. Mereles D, Ehlken N, Kreuscher S, et al. Exercise and respiratory training improve exercise capacity and quality of life in patients with severe chronic pulmonary

hypertension. Circulation 2006;114:1482-9.

22. Ozemek C, Berry MJ, Arena R. A review of exercise interventions in pulmonary arterial hypertension and recommendations for rehabilitation programing. Journal of Cardiopulmonary Rehabilitation and Prevention 2019;39:138-45.
23. Moreira-Gonçalves D, Ferreira R, Fonseca H, et al. Cardioprotective effects of early and late aerobic exercise training in experimental pulmonary arterial hypertension. Basic research in cardiology 2015;110:57.
24. Colombo R, Siqueira R, Becker CU, et al. Effects of exercise on monocrotaline-induced changes in right heart function and pulmonary artery remodeling in rats. Canadian journal of physiology and pharmacology 2013;91:38-44.
25. Ley S, Fink C, Risse F, et al. Magnetic resonance imaging to assess the effect of exercise training on pulmonary perfusion and blood flow in patients with pulmonary hypertension. European radiology 2013;23:324-31.
26. Grünig E, Eichstaedt C, Barberà J-A, et al. ERS statement on exercise training and rehabilitation in patients with severe chronic pulmonary hypertension. European Respiratory Journal 2019;53.
27. Ehlken N, Lichtblau M, Klose H, et al. Exercise training improves peak oxygen consumption and haemodynamics in patients with severe pulmonary arterial hypertension and inoperable chronic thrombo-embolic pulmonary hypertension: a prospective, randomized, controlled trial. European heart journal 2016;37:35-44.
28. Radi BR, Suryaatmaja B, Kuncoro AS, Soesanto AM. Simple and Short-term Inspiration Training Accelerates Recovery from Residual Pulmonary Hypertension after Mitral Valve Surgery: A randomized control trial. Indonesian Journal of Cardiology 2021;42.
29. Benjamin N, Marra AM, Eichstaedt C, Grünig E. Exercise training and rehabilitation in pulmonary hypertension. Heart Failure Clinics 2018;14:425-30.
30. Chia KS, Wong PK, Faux SG, McLachlan CS, Kotlyar E. The benefit of exercise training in pulmonary hypertension: a clinical review. Internal medicine journal 2017;47:361-9.
31. Talwar A, Sahni S, Verma S, Khan SZ, Dhar S, Kohn N. Exercise tolerance improves after pulmonary rehabilitation in pulmonary hypertension patients. Journal of exercise rehabilitation 2017;13:214.

32. De Man F, Handoko M, Groepenhoff H, et al. Effects of exercise training in patients with idiopathic pulmonary arterial hypertension. European Respiratory Journal 2009;34:669-75.
33. Kabitz H-J, Bremer H-C, Schwoerer A, et al. The combination of exercise and respiratory training improves respiratory muscle function in pulmonary hypertension. Lung 2014;192:321-8.
34. González-Saiz L, Fiuza-Luces C, Sanchis-Gomar F, et al. Benefits of skeletal-muscle exercise training in pulmonary arterial hypertension: The WHOLEi+ 12 trial. International journal of cardiology 2017;231:277-83.
35. PERKI. Panduan Rehabilitasi Kardiovaskular. 1 ed. Jakarta: Kelompok Kerja Prevensi dan Rehabilitasi Kardiovaskuler Pengurus Pusar Perhimpunan Kardiovaskuler Indonesia; 2019.
36. Samoedro E, Prasenohadi, Susaanto AD, et al. Aplikasi Klinis Uji Latih Jantung Paru. Jakarta: Departemen Pulmonologi dan Ilmu Kedokteran Respirasi Fakultas Kedokteran Universitas Indonesia-RS Persahabatan; 2022.
37. Arena R, Myers J, Williams MA, et al. Assessment of functional capacity in clinical and research settings: a scientific statement from the American Heart Association Committee on Exercise, Rehabilitation, and Prevention of the Council on Clinical Cardiology and the Council on Cardiovascular Nursing. Circulation 2007;116:329-43.
38. Wasserman K, Hansen JE, Sue DY, Stringer WW, Whipp BJ. Principles of exercise testing and interpretation: including pathophysiology and clinical applications. Medicine & Science in Sports & Exercise 2005;37:1249.
39. Herdy AH, Ritt LEF, Stein R, et al. Cardiopulmonary exercise test: background, applicability and interpretation. Arquivos brasileiros de cardiologia 2016;107:467-81.
40. Miot HA. Sample size in clinical and experimental trials. Jornal Vascular Brasileiro 2011;10:275-8.
41. Varì R, Scazzocchio B, D'Amore A, Giovannini C, Gessani S, Masella R. Gender-related differences in lifestyle may affect health status. Annali dell'Istituto superiore di sanita 2016;52:158-66.
42. Austin ED, Lahm T, West J, et al. Gender, sex hormones and pulmonary

hypertension. Pulmonary circulation 2013;3:294-314.

43. Londoño A, Conde R, Pacheco M, et al. Underweight/overweight syndrome in patients with pulmonary hypertension in Colombia: a prevalence study. Eur Respiratory Soc; 2022.
44. Dinarti LK, Hartopo AB, Kusuma AD, et al. The COngenital HeARt Disease in adult and Pulmonary Hypertension (COHARD-PH) registry: a descriptive study from single-center hospital registry of adult congenital heart disease and pulmonary hypertension in Indonesia. BMC Cardiovascular Disorders 2020;20:1-11.
45. Cossío-Aranda J, Zamora KDV, Nanda NC, et al. Echocardiographic correlates of severe pulmonary hypertension in adult patients with ostium secundum atrial septal defect. Echocardiography 2016;33:1891-6.
46. Post M. Association between pulmonary hypertension and an atrial septal defect. Netherlands Heart Journal 2013;21:331-2.
47. Oudiz RJ, Roveran G, Hansen JE, Sun XG, Wasserman K. Effect of sildenafil on ventilatory efficiency and exercise tolerance in pulmonary hypertension. Eur J Heart Fail 2007;9:917-21.
48. Barnes H, Brown Z, Burns A, Williams T. Phosphodiesterase 5 inhibitors for pulmonary hypertension. Cochrane Database of Systematic Reviews 2019.
49. Rubin LJ, Badesch DB, Fleming TR, et al. Long-term treatment with sildenafil citrate in pulmonary arterial hypertension: the SUPER-2 study. Chest 2011;140:1274-83.
50. Chan L, Chin LM, Kennedy M, et al. Benefits of intensive treadmill exercise training on cardiorespiratory function and quality of life in patients with pulmonary hypertension. Chest 2013;143:333-43.
51. Grünig E, Maier F, Ehlken N, et al. Exercise training in pulmonary arterial hypertension associated with connective tissue diseases. Arthritis research & therapy 2012;14:1-10.
52. Hildenbrand FF, Fauchère I, Huber LC, Keusch S, Speich R, Ulrich S. A low resting heart rate at diagnosis predicts favourable long-term outcome in pulmonary arterial and chronic thromboembolic pulmonary hypertension. A prospective observational study. Respiratory research 2012;13:1-7.
53. Rich JD, Rich S. Clinical diagnosis of pulmonary hypertension. Circulation

2014;130:1820-30.

54. Bersohn MM, Turner MP, Traiger GL, Frost AE, Shapiro S. Systemic BP and heart rate as prognostic indicators in pulmonary arterial hypertension. Chest 2013;144:959-65.

55. Fox BD, Kassirer M, Weiss I, et al. Ambulatory rehabilitation improves exercise capacity in patients with pulmonary hypertension. Journal of cardiac failure 2011;17:196-200.

56. Becker-Grünig T, Klose H, Ehlken N, et al. Efficacy of exercise training in pulmonary arterial hypertension associated with congenital heart disease. International Journal of Cardiology 2013;168:375-81.

57. Harbaum L, Renk E, Yousef S, et al. Acute effects of exercise on the inflammatory state in patients with idiopathic pulmonary arterial hypertension. BMC Pulmonary Medicine 2016;16:1-11.

58. Martínez-Quintana E, Miranda-Calderín G, Ugarte-Lopetegui A, Rodríguez-González F. Rehabilitation program in adult congenital heart disease patients with pulmonary hypertension. Congenital heart disease 2010;5:44-50.