

## **BAB VII**

### **DAFTAR PUSTAKA**

1. World Health Organization. Burden of Chronic Obstructive Pulmonary Disease. 2017; Tersedia di [https://www.who.int/news-room/fact-sheets/detail/chronic-obstructive-pulmonary-disease-\(copd\)](https://www.who.int/news-room/fact-sheets/detail/chronic-obstructive-pulmonary-disease-(copd)). Diunduh pada tanggal 31 Agustus 2019.
2. Vos T, Flaxman AD, Naghavi M, Lozano R, Michaud C, Ezzati M, Shibuya K, Salomon JA, Abdalla S, Aboyans V, Abraham J. Years lived with disability (YLDs) for 1160 sequelae of 289 diseases and injuries 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010. *The lancet*. 2012 Dec 15; 380 (9859):2163-96. Diunduh pada tanggal 31 Agustus 2019.
3. López-Campos JL, Tan W, Soriano JB. Global burden of COPD. *Respirology*. 2016 Jan; 21 (1):14-23. Diunduh pada 10 September 2019.
4. Adeloje D, Chua S, Lee C, Basquill C, Papan A, Theodoratou E, Nair H, Gasevic D, Sridhar D, Campbell H, Chan KY. Global and regional estimates of COPD prevalence: Systematic review and meta-analysis. *Journal of global health*. 2015 Dec;5(2). Diunduh pada 18 September 2019.
5. Regional COPD Working Group. COPD prevalence in 12 Asia-Pacific countries and regions: Projections based on the COPD prevalence estimation model. *Respirology*. 2003 Jun;8(2):192-8. Diunduh pada 18 September 2019.
6. Global Initiative for Chronic Obstructive Lung Disease (GOLD). Pocket Guide to COPD Diagnosis, Management, and Prevention: A Guide for Health Care Professional. 2019. Diunduh pada 18 September 2019.
7. Wijaya PR, Martika NT, Hernawan B. Hubungan antara Indeks Massa Tubuh (IMT) dengan Kapasitas Vital Paksa (KVP) pada Pasien PPOK Stabil Derajat III di Balai Besar Kesehatan Paru Masyarakat (BBKPM) di Surakarta (Doctoral dissertation, Universitas Muhammadiyah Surakarta). 2016. Diunduh pada 18 September 2019.

8. Vestbo J, Prescott E, Almdal T, Dahl M, Nordestgaard BG, Andersen T, Sørensen TI, Lange P. Body mass, fat-free body mass, and prognosis in patients with chronic obstructive pulmonary disease from a random population sample: findings from the Copenhagen City Heart Study. *American journal of respiratory and critical care medicine*. 2006 Jan 1;173(1):79-83. Diunduh pada 18 September 2019.
9. Celli BR, Macneil W, Agusti A, Anzueto A, Bery B, Buist AS, et al. Standards for the diagnosis and treatment of patients with COPD: a summary of the ATS/ERS position paper. *Eur Respr J*.2004; 23: 932-46.
10. Perhimpunan Dokter Paru di Indonesia (PDPI). Penyakit Paru Obstruktif Kronik (PPOK). Pedoman Diagnosis & Penatalaksanaan di Indonesia. Jakarta. 2011. Diunduh pada 18 September 2019.
11. WHO report on the global tobacco epidemic, Country profile Indonesia, 2019.[https://www.who.int/tobacco/surveillance/policy/country\\_profile/idn.pdf](https://www.who.int/tobacco/surveillance/policy/country_profile/idn.pdf). Diunduh pada 18 September 2019.
12. Kesehatan K, Penelitian B, Kesehatan P. Hasil Utama RISKESDAS 2018. <https://dinkes.kalbarprov.go.id/wp-content/uploads/2019/03/Laporan-Riskesdas-2018-Nasional.pdf>. Jakarta [ID]: Badan penelitian dan pengembangan kesehatan. Kementerian Kesehatan. 2018. Diunduh pada 18 September 2019.
13. Collins PF, Elia M, Stratton RJ. Nutritional support and functional capacity in chronic obstructive pulmonary disease: a systematic review and meta-analysis. *Respirology*. 2013 May;18(4):616-29. Diunduh pada 18 September 2019.
14. Stratton RJ, Green CJ, Elia M. Disease-related malnutrition: an evidence-based approach to treatment. *Cabi*; 2003. p. Diunduh pada 18 September 2019.
15. Susanto AD. Masalah rokok dan strategi berhenti merokok. Dalam: Alvin Kosasih, Neni Sawitri. *Harmony of Pulmonology update*. Ilmu penyakit paru dan aplikasinya untuk dokter umum. Bogor; Panitia Pertemuan Ilmiah Paru Bogor; 2009.p.119-33. Diunduh pada 18 September 2019.

16. Chambaneau A, Filaire M, Jubert L, Bremond M, Filaire E. Nutritional intake, physical activity and quality of life in COPD patients. *International journal of sports medicine*. 2016 Aug;37 (09):730-7. Diunduh pada 18 September 2019.
17. Walter-Kroker A, Kroker A, Mattiucci-Guehlke M, Glaab T. A practical guide to bioelectrical impedance analysis using the example of chronic obstructive pulmonary disease. *Nutrition Journal*. 2011 Dec 1;10(1):35. Diunduh pada 18 September 2019.
18. Schols A. Nutritional modulation as part of the integrated management of chronic obstructive pulmonary disease. *Proceedings of the Nutrition Society*. 2003 Nov;62(4):783-91. Diunduh pada 18 September 2019.
19. Marin JM, Carrizo SJ, Casanova C, Martinez-Camblor P, Soriano JB, Agusti AG, Celli BR. Prediction of risk of COPD exacerbations by the BODE index. *Respiratory medicine*. 2009 Mar 1;103(3):373-8. Diunduh pada 23 September 2019.
20. Vanfleteren LE, Spruit MA, Groenen M, Gaffron S, van Empel VP, Bruijnzeel PL, Rutten EP, Op't Roodt J, Wouters EF, Franssen FM. Clusters of comorbidities based on validated objective measurements and systemic inflammation in patients with chronic obstructive pulmonary disease. *American journal of respiratory and critical care medicine*. 2013 Apr 1;187(7):728-35. Diunduh pada 23 September 2019.
21. Romme EA, Murchison JT, Phang KF, Jansen FH, Rutten EP, Wouters EF, Smeenk FW, Van Beek EJ, MacNee W. Bone attenuation on routine chest CT correlates with bone mineral density on DXA in patients with COPD. *Journal of Bone and Mineral Research*. 2012 Nov;27(11):2338-43. Diunduh pada 23 September 2019.
22. Li J, Sun S, Tang R, Qiu H, Huang Q, Mason TG, Tian L. Major air pollutants and risk of COPD exacerbations: a systematic review and meta-analysis. *International journal of chronic obstructive pulmonary disease*. 2016; 11:3079. Diunduh pada 23 September 2019.

23. DeVries R, Kriebel D, Sama S. Outdoor air pollution and COPD-related emergency department visits, hospital admissions, and mortality: a meta-analysis. *COPD: Journal of Chronic Obstructive Pulmonary Disease*. 2017 Jan 2;14(1):113-21. Diunduh pada 23 September 2019.
24. Ntritsos G, Franek J, Belbasis L, Christou MA, Markozannes G, Altman P, Fogel R, Sayre T, Ntzani EE, Evangelou E. Gender-specific estimates of COPD prevalence: a systematic review and meta-analysis. *International journal of chronic obstructive pulmonary disease*. 2018; 13:1507. Diunduh pada 23 September 2019.
25. Aryal S, Diaz-Guzman E, Mannino DM. Influence of sex on chronic obstructive pulmonary disease risk and treatment outcomes. *International journal of chronic obstructive pulmonary disease*. 2014; 9:1145. Diunduh pada 23 September 2019.
26. Ferrari R, Tanni SE, Lucheta PA, Faganello MM, Amaral RA, Godoy I. Gender differences in predictors of health status in patients with COPD. *Jornal Brasileiro De Pneumologia*. 2010 Feb;36(1):37-43. Diunduh pada 23 September 2019.
27. Mihaela, C., Corlateanu, A., & Botnaru, V. Gender differences of predictors of health status in patients with COPD. *The European Respiratory Journal. Supplement*, 2011;38: 78. Diunduh pada 25 September 2019.
28. Ito K, Colley T, Mercado N. Geroprotectors as a novel therapeutic strategy for COPD, an accelerating aging disease. *International journal of chronic obstructive pulmonary disease*. 2012; 7:641. Diunduh pada 23 September 2019.
29. Mercado N, Ito K, Barnes PJ. Accelerated ageing of the lung in COPD: new concepts. *Thorax*. 2015 May 1;70(5):482-9. Diunduh pada 23 September 2019.
30. Kurth L, Doney B, Halldin C, Hale J, Frenk SM. Airflow obstruction among ever-employed US adults aged 18-79 years by industry and occupation: NHANES 2007-2008 to 2011-2012. *American journal of industrial medicine*. 2019 Jan;62(1):30-42. Diunduh pada 23 September 2019.

31. Rahaghi FF, Sandhaus RA, Strange C, Hogarth DK, Eden E, Stocks JM, Krowka MJ, Stoller JK. The prevalence of alpha-1 antitrypsin deficiency among patients found to have airflow obstruction. *COPD: Journal of Chronic Obstructive Pulmonary Disease*. 2012 Jul 26;9(4):352-8. Diunduh pada 27 September 2019.
32. Cho MH, McDonald ML, Zhou X, Mattheisen M, Castaldi PJ, Hersh CP, DeMeo DL, Sylvia JS, Ziniti J, Laird NM, Lange C. Risk loci for chronic obstructive pulmonary disease: a genome-wide association study and meta-analysis. *The lancet Respiratory medicine*. 2014 Mar 1;2(3):214-25. Diunduh pada 27 September 2019.
33. Saetta M, Turato G, Baraldo S, Zanin A, Braccioni F, Mapp Ce, Maestrelli P, Cavalleco G, Papi A, FABBRI LM. Goblet cell hyperplasia and epithelial inflammation in peripheral airways of smokers with both symptoms of chronic bronchitis and chronic airflow limitation. *American journal of respiratory and critical care medicine*. 2000 Mar 1;161(3):1016-21. Diunduh pada 27 September 2019.
34. Saetta M, Di Stefano A, Turato G, Facchini FM, Corbino L, Mapp CE, Maestrelli P, Ciaccia A, Fabbri LM. CD8+ T-lymphocytes in peripheral airways of smokers with chronic obstructive pulmonary disease. *American journal of respiratory and critical care medicine*. 1998 Mar 1;157(3):822-6. Diunduh pada 27 September 2019.
35. Hogg JC, Chu F, Utokaparch S, Woods R, Elliott WM, Buzatu L, Cherniack RM, Rogers RM, Sciurba FC, Coxson HO, Paré PD. The nature of small-airway obstruction in chronic obstructive pulmonary disease. *New England Journal of Medicine*. 2004 Jun 24;350(26):2645-53. Diunduh pada 27 September 2019.
36. Vlahovic G, Russell ML, Mercer RR, Crapo JD. Cellular and connective tissue changes in alveolar septal walls in emphysema. *American journal of respiratory and critical care medicine*. 1999 Dec 1;160(6):2086-92. Diunduh pada 27 September 2019.

37. Avila PC, Schleimer RP. 16 Airway Epithelium. *Allergy and Allergic Diseases*. 2009 Jan 26:366. Diunduh pada 27 September 2019.
38. Xiao R, Stearns K, Zelonina T, Goldklang M, Blomenkamp K, Teckman J, D'Armiento J. Alpha-1 Antitrypsin Antisense Oligonucleotide Modulates Protease-Antiprotease Imbalance without Further Aggravating Smoke-induced Lung Injury. *BioRxiv*. 2019 Jan 1:7196-82. Diunduh pada 27 September 2019.
39. Possebon L, Lebron ID, da Silva LF, Paletta JT, Glad BG, Sant'Ana M, Iyomasa-Pilon MM, Souza HR, de Souza Costa S, da Silva Rodrigues GP, de Lourdes Pereira M. Anti-inflammatory actions of herbal medicines in a model of chronic obstructive pulmonary disease induced by cigarette smoke. *Biomedicine & Pharmacotherapy*. 2018 Mar 1; 99:591-7. Diunduh pada 27 September 2019.
40. Pavlisa G, Pavlisa G, Kusec V, Kolonic SO, Markovic AS, Jaksic B. Serum levels of VEGF and bFGF in hypoxic patients with exacerbated COPD. *European cytokine network*. 2010 Jun 1;21(2):92-8. Diunduh pada 27 September 2019.
41. Kurmi OP, Semple S, Simkhada P, Smith WC, Ayres JG. COPD and chronic bronchitis risk of indoor air pollution from solid fuel: a systematic review and meta-analysis. *Thorax*. 2010 Mar 1;65(3):221-8. Diunduh pada 28 September 2019.
42. Wrobel JP, Thompson BR, Williams TJ. Mechanisms of pulmonary hypertension in chronic obstructive pulmonary disease: a pathophysiologic review. *The Journal of Heart and Lung Transplantation*. 2012 Jun 1;31(6):557-64. Diunduh pada 28 September 2019.
43. Dudgeon D, Baracos VE. Physiological and functional failure in chronic obstructive pulmonary disease, congestive heart failure and cancer: a debilitating intersection of sarcopenia, cachexia and breathlessness. *Current opinion in supportive and palliative care*. 2016 Sep 1;10(3):236-41. Diunduh pada 28 September 2019.



44. Bakhtiar A, Tantri RI. Faal Paru Dinamis. *Jurnal Respirasi*. 2019 Apr 24;3(3):89-96. Diunduh pada 28 September 2019.
45. Harminder S, Itika S, Mridul Y. *Fundamentals of Medical Physiology*. India: RELX India Pvt. Ltd.; 2018. pp. 207-210. Diunduh pada 28 September 2019.
46. John E. Hall. *Guyton and Hall Textbook of Medical Physiology*, 13th ed. The United States of America (USA): Elsevier Inc.; 2016. pp. 497-498. Diunduh pada 28 September 2019.
47. Anna Uyainah ZN, Zulkifli A, Feisal T. Spirometri, *The Indonesian Journal & Critical Emergency Medicine*. 2014;1(1):35-38. Diunduh pada 28 September 2019.
48. National Institute for Health and Care Excellence. NICE clinical guideline 101. Chronic obstructive pulmonary disease: management of chronic obstructive pulmonary disease in adults with primary and secondary care (partial update). 2010 Feb. Diunduh pada 28 September 2019.
49. Nathell L, Nathell M, Malmberg P, Larsson K. COPD diagnosis related to different guidelines and spirometry techniques. *Respiratory research*. 2007 Dec;8(1):89. Diunduh pada 28 September 2019.
50. Barreiro TJ, Perillo I. An approach to interpreting spirometry. *American family physician*. 2004 Mar 1;69(5):1107-16. Diunduh pada 28 September 2019.
51. Coates AL, Graham BL, McFadden RG, McParland C, Moosa D, Provencher S. Spirometry in primary care. *Canadian respiratory journal*. 2013;20(1):13-22. Diunduh pada 28 September 2019.
52. Jaffrin MY. Body composition determination by bioimpedance: an update. *Current Opinion in Clinical Nutrition & Metabolic Care*. 2009 Sep 1;12(5):482-6. Diunduh pada 28 September 2019.
53. Lohman T, Wang Z, Going SB. Human body composition. *Human Kinetics*; 2005. Diunduh pada 28 September 2019. Diunduh pada 28 September 2019.
54. Allison DB, Faith MS, Heo M, Kotler DP. Hypothesis concerning the U-shaped relation between body mass index and mortality. *American journal*

- of epidemiology. 1997 Aug 15;146(4):339-49. Diunduh pada 29 September 2019.
55. Hull HR, Thornton J, Wang J, Pierson Jr RN, Kaleem Z, Pi-Sunyer X, Heymsfield S, Albu J, Fernandez JR, Vanitallie TB, Gallagher D. Fat-free mass index: changes and race/ethnic differences in adulthood. *International journal of obesity*. 2011 Jan;35(1):121. Diunduh pada 29 September 2019.
  56. Baarends EM, Schols AM, Mostert R, Wouters EF. Peak exercise response in relation to tissue depletion in patients with chronic obstructive pulmonary disease. *European Respiratory Journal*. 1997 Dec 1;10(12):2807-13. Diunduh pada 29 September 2019.
  57. Evans WJ, Morley JE, Argilés J, Bales C, Baracos V, Guttridge D, Jatoi A, Kalantar-Zadeh K, Lochs H, Mantovani G, Marks D. Cachexia: a new definition. *Clinical nutrition*. 2008 Dec 1; 27(6):793-9. Diunduh pada 29 September 2019.
  58. McDonald ML, Wouters EF, Rutten E, Casaburi R, Rennard SI, Lomas DA, Bamman M, Celli B, Agusti A, Tal-Singer R, Hersh CP. It's more than low BMI: prevalence of cachexia and associated mortality in COPD. *Respiratory research*. 2019 Dec;20(1):100. Diunduh pada 29 September 2019.
  59. Decramer M, De Benedetto F, Del Ponte A, Marinari S. Systemic effects of COPD. *Respiratory medicine*. 2005 Dec 1; 99:S3-10. Diunduh pada 29 September 2019.
  60. Agusti A. Systemic effects of chronic obstructive pulmonary disease: what we know and what we don't know (but should). *Proceedings of the American Thoracic Society*. 2007 Oct 1;4(7):522-5. Diunduh pada 29 September 2019.
  61. Zhong N, Wang C, Yao W, Chen P, Kang J, Huang S, Chen B, Wang C, Ni D, Zhou Y, Liu S. Prevalence of chronic obstructive pulmonary disease in China: a large, population-based survey. *American journal of respiratory and critical care medicine*. 2007 Oct 15;176(8):753-60. Diunduh pada 30 September 2019.



62. Yuwono KL. *Hubungan Antara Indeks Massa Tubuh dan Nilai Kapasitas Vital Paksa Paru Pada Pasien Penyakit Paru Obstruktif Kronis Stabil Derajat 2 di Balai Besar Kesehatan Paru Masyarakat Surakarta* (Doctoral dissertation, Universitas Muhammadiyah Surakarta). 2016. Diunduh pada 30 September 2019.
63. Hallin R, Koivisto-Hursti UK, Lindberg E, Janson C. Nutritional status, dietary energy intake and the risk of exacerbations in patients with chronic obstructive pulmonary disease (COPD). *Respiratory medicine*. 2006 Mar 1;100(3):561-7. Diunduh pada 30 September 2019.
64. Vermeeren MA, Creutzberg EC, Schols AM, Postma DS, Pieters WR, Roldaan AC, Wouters EF, COSMIC Study Group. Prevalence of nutritional depletion in a large out-patient population of patients with COPD. *Respiratory medicine*. 2006 Aug 1;100(8):1349-55. Diunduh pada 30 September 2019.
65. Shimray AJ, Kanan W, Singh WA, Devi AN, Ningshen K, Laishram R. Association body mass index and spirometric lung function in chronic obstructive pulmonary disease (COPD) patients attending RIMS Hospital, Manipur. *Journal of Medical Society*. 2014 Sep 1;28(3):157. Diunduh pada 30 September 2019.
66. Fasitasari M. Nutrition Therapy in Elderly with Chronic Obstructive Pulmonary Disease (COPD). *Sains Medika: Jurnal Kedokteran dan Kesehatan*. 2013 Jun 7;5(1):50-61. Diunduh pada 30 September 2019.
67. Yovi I, Burhanuddin L. Gambaran status gizi dan fungsi paru pada pasien penyakit paru obstruktif kronik stabil di poli paru RSUD Arifin Achmad. *Jurnal Online Mahasiswa Fakultas Kedokteran Universitas Riau*. 2015;2(2):1-1. Diunduh pada 30 September 2019.
68. Yoneda T, Yoshikawa M, Fu A, Tsukaguchi K, Okamoto Y, Takenaka H. Plasma levels of amino acids and hypermetabolism in patients with chronic obstructive pulmonary disease. *Nutrition*. 2001 Feb 1;17(2):95-9. Diunduh pada 30 September 2019.

69. Buse MG, Reid SS. Leucine. A possible regulator of protein turnover in muscle. *The Journal of clinical investigation*. 1975 Nov 1;56(5):1250-61. Diunduh pada 30 September 2019.
70. Pouw EM, Schols AM, Deutz NE, Wouters EF. Plasma and muscle amino acid levels in relation to resting energy expenditure and inflammation in stable chronic obstructive pulmonary disease. *American journal of respiratory and critical care medicine*. 1998 Sep 1;158(3):797-801. Diunduh pada 30 September 2019.
71. Bhatnagar A. Role of Protein Microenvironment in Modulating Structure and Function of Cystine, Cysteine and Aspartic Acid (Doctoral dissertation, BITS Pilani). 2016, Tersedia di [http://eprints.bits-pilani.ac.in/1946/1/Ph.D.Thesis Akshay Bhatnagar \(2012PHXF525H\).pdf](http://eprints.bits-pilani.ac.in/1946/1/Ph.D.Thesis%20Akshay%20Bhatnagar%20(2012PHXF525H).pdf). Diunduh pada 9 Oktober 2019.
72. Joppa P, Tkacova R, Franssen FM, Hanson C, Rennard SI, Silverman EK, McDonald ML, Calverley PM, Tal-Singer R, Spruit MA, Kenn K. Sarcopenic obesity, functional outcomes, and systemic inflammation in patients with chronic obstructive pulmonary disease. *Journal of the American Medical Directors Association*. 2016 Aug 1;17(8):712-8. Diunduh pada 9 Oktober 2019.
73. Tessari P, Cecchet D, Cosma A, Puricelli L, Million R, Vedovato M, Tiengo A. Insulin resistance of amino acid and protein metabolism in type 2 diabetes. *Clinical Nutrition*. 2011 Jun 1;30(3):267-72. Diunduh pada 9 Oktober 2019.
74. Chouchane A, Miâdi-Messaoud H, Ghannouchi I, Rouatbi S, Zbidi A, Tabka Z, Ben-Jebria A. Obesity induced bronchopulmonary hyperresponsiveness in Tunisian women. *International Journal of Obesity*. 2010 Jun;34(6):1078. Diunduh pada 9 Oktober 2019.
75. Maltais F, Decramer M, Casaburi R, Barreiro E, Burelle Y, Debigare R, Dekhuijzen PR, Franssen F, Gayan-Ramirez G, Gea J, Gosker HR. An official American Thoracic Society/European Respiratory Society statement: update on limb muscle dysfunction in chronic obstructive

- pulmonary disease. *American journal of respiratory and critical care medicine*. 2014 May 1;189(9):e15-62. Diunduh pada 9 Oktober 2019.
76. Wilkinson DJ, Piasecki M, Atherton PJ. The age-related loss of skeletal muscle mass and function: Measurement and physiology of muscle fibre atrophy and muscle fibre loss in humans. *Ageing research reviews*. 2018 Nov 1; 47:123-32. Diunduh pada 9 Oktober 2019.
  77. Remels AH, Gosker HR, Langen RC, Schols AM. The mechanisms of cachexia underlying muscle dysfunction in COPD. *Journal of Applied Physiology*. 2012 Sep 27;114(9):1253-62. Diunduh pada 9 Oktober 2019.
  78. Engelen MP, Schols AM, Baken WC, Wesseling GJ, Wouters EF. Nutritional depletion in relation to respiratory and peripheral skeletal muscle function in out-patients with COPD. *European Respiratory Journal*. 1994 Oct 1;7(10):1793-7. Diunduh pada 9 Oktober 2019.
  79. Kobayashi A, Yoneda T, Yoshikawa M, Ikuno M, Takenaka H, Fukuoka A, Narita N, Nezu K. The relation of fat-free mass to maximum exercise performance in patients with chronic obstructive pulmonary disease. *Lung*. 2000 Mar 1;178(2):119-27. Diunduh pada 9 Oktober 2019.
  80. Bernard S, LeBlanc P, Whittom F, Carrier G, Jobin J, Belleau R, Maltais F. Peripheral muscle weakness in patients with chronic obstructive pulmonary disease. *American journal of respiratory and critical care medicine*. 1998 Aug 1;158(2):629-34. Diunduh pada 9 Oktober 2019.
  81. Troosters T, Casaburi R, Gosselink R, Decramer M. Pulmonary rehabilitation in chronic obstructive pulmonary disease. *American journal of respiratory and critical care medicine*. 2005 Jul 1;172(1):19-38. Diunduh pada 9 Oktober 2019.
  82. Ansari K, Keaney N, Taylor I, Burns G, Farrow M. Muscle weakness, health status and frequency of exacerbations in chronic obstructive pulmonary disease. *Postgraduate medical journal*. 2012 Jul 1;88(1041):372-6. Diunduh pada 9 Oktober 2019.
  83. Nici L, Donner C, Wouters E, Zuwallack R, Ambrosino N, Bourbeau J, Carone M, Celli B, Engelen M, Fahy B, Garvey C. *American thoracic*

society/European respiratory society statement on pulmonary rehabilitation. American journal of respiratory and critical care medicine. 2006 Jun 15;173(12):1390-413. Diunduh pada 9 Oktober 2019.

84. Levine S, Gregory C, Nguyen T, Shrager J, Kaiser L, Rubinstein N, Dudley G. Bioenergetic adaptation of individual human diaphragmatic myofibers to severe COPD. Journal of applied physiology. 2002 Mar 1;92(3):1205-13. Diunduh pada 9 Oktober 2019.
85. Sala E, Roca J, Marrades RM, Alonso J, GONZALEZ de SUSO JM, Moreno A, Barberà JA, Nadal J, De Jover L, Rodriguez-Roisin R, Wagner PD. Effects of endurance training on skeletal muscle bioenergetics in chronic obstructive pulmonary disease. American journal of respiratory and critical care medicine. 1999 Jun 1;159(6):1726-34. Diunduh pada 9 Oktober 2019.
86. O'donnell DE, Reville SM, Webb KA. Dynamic hyperinflation and exercise intolerance in chronic obstructive pulmonary disease. American journal of respiratory and critical care medicine. 2001 Sep 1;164(5):770-7. Diunduh pada 10 Oktober 2019.
87. Howald H, Pette D, Simoneau JA, Uber A, Hoppeler H, Cerretelli P. III. Effects of chronic hypoxia on muscle enzyme activities. International journal of sports medicine. 1990 Feb;11(S1): S10-4. Diunduh pada 10 Oktober 2019.
88. Rahman I, MacNee W. Oxidative stress and regulation of glutathione in lung inflammation. European Respiratory Journal. 2000 Sep 1;16(3):534-54. Diunduh pada 10 Oktober 2019.
89. Casaburi R, Patessio A, Ioli F, Zanaboni S, Donner CF, Wasserman K. Reductions in exercise lactic acidosis and ventilation as a result of exercise training in patients with obstructive lung disease. American Review of Respiratory Disease. 1991 Jan;143(1):9-18. Diunduh pada 10 Oktober 2019.
90. Gosker HR, Engelen MP, van Mameren H, van Dijk PJ, van der Vusse GJ, Wouters EF, Schols AM. Muscle fiber type IIX atrophy is involved in the

loss of fat-free mass in chronic obstructive pulmonary disease. *The American journal of clinical nutrition*. 2002 Jul 1;76(1):113-9. Diunduh pada 10 Oktober 2019.

91. Gosker HR, Zeegers MP, Wouters EF, Schols AM. Muscle fibre type shifting in the vastus lateralis of patients with COPD is associated with disease severity: a systematic review and meta-analysis. *Thorax*. 2007 Nov 1;62(11):944-9. Diunduh pada 10 Oktober 2019.
92. Puente-Maestu L, Pérez-Parra J, Godoy R, Moreno N, Tejedor A, González-Aragoneses F, Bravo JL, Alvarez FV, Camaño S, Agustí A. Abnormal mitochondrial function in locomotor and respiratory muscles of COPD patients. *European Respiratory Journal*. 2009 May 1;33(5):1045-52. Diunduh pada 10 Oktober 2019.
93. Vigelsø A, Andersen NB, Dela F. The relationship between skeletal muscle mitochondrial citrate synthase activity and whole-body oxygen uptake adaptations in response to exercise training. *International journal of physiology, pathophysiology and pharmacology*. 2014;6(2):84. Diunduh pada 10 Oktober 2019.
94. Ju CR, Chen RC. Serum myostatin levels and skeletal muscle wasting in chronic obstructive pulmonary disease. *Respiratory medicine*. 2012 Jan 1;106(1):102-8. Diunduh pada 10 Oktober 2019.
95. Wouters EF, Creutzberg EC, Schols AM. Systemic effects in COPD. *Chest*. 2002 May 1;121(5):127S-30S. Diunduh pada 10 Oktober 2019.
96. Agusti A, Morla M, Sauleda J, Saus C, Busquets X. NF- $\kappa$ B activation and iNOS upregulation in skeletal muscle of patients with COPD and low body weight. *Thorax*. 2004 Jun 1;59(6):483-7. Diunduh pada 10 Oktober 2019.
97. Mador MJ, Bozkanat E, Aggarwal A, Shaffer M, Kufel TJ. Endurance and strength training in patients with COPD. *Chest*. 2004 Jun 1;125(6):2036-45. Diunduh pada 10 Oktober 2019.
98. Gologanu D, Ionita D, Gartonea T, Stanescu C, Bogdan MA. Body composition in patients with chronic obstructive pulmonary disease. *Maedica*. 2014 Mar;9(1):25. Diunduh pada 10 Oktober 2019.

99. Schols AM, Broekhuizen R, Weling-Scheepers CA, Wouters EF. Body composition and mortality in chronic obstructive pulmonary disease. *The American journal of clinical nutrition*. 2005 Jul 1;82(1):53-9. Diunduh pada 10 Oktober 2019.
100. Kim SB, Kang YA, Jung JY, Park MS, Kim YS, Kim SK, Chang J, Kim EY. Body mass index and Fat-Free mass index in obstructive lung disease in Korea. *The International journal of tuberculosis and lung disease*. 2014 Jan 1;18(1):102-8. Diunduh pada 20 July 2020.
101. Kim CH, Chung S, Kim H, Park JH, Park SH, Ji JW, Han SW, Lee JC, Kim JH, Park YB, Nam HS. Norm references of fat-free mass index and fat mass index and subtypes of obesity based on the combined FFMI-% BF indices in the Korean adults aged 18–89 yr. *Obesity Research & Clinical Practice*. 2011 Jul 1;5(3): e210-9. Diunduh pada 20 July 2020.
102. Lamont LS, Romito R, Rossi K. Fat-free mass and gender influences the rapid-phase excess postexercise oxygen consumption. *Applied Physiology, Nutrition, and Metabolism*. 2010 Feb;35(1):23-6. Diunduh pada 20 July 2020.
103. Levin OS, Polunina AG, Demyanova MA, Isaev FV. Steroid myopathy in patients with chronic respiratory diseases. *Journal of the neurological sciences*. 2014 Mar 15;338(1-2):96-101. Diunduh pada 20 July 2020.
104. Ischaki E, Papatheodorou G, Gaki E, Papa I, Koulouris N, Loukides S. Body Mass and Fat-Free Mass Indices in COPD. *Chest*. 2007;132(1):164–9. Diunduh pada 20 July 2020.
105. Terzano C, Ceccarelli D, Conti V, Graziani E, Ricci A, Petroianni A. Maximal respiratory static pressures in patients with different stages of COPD severity. *Respiratory research*. 2008 Dec;9(1):1-7. Diunduh pada 20 July 2020.