

DAFTAR PUSTAKA

- Adramerina, A., Printza, N., Hatzipantelis, E., Symeonidis, S., Tarazi, L., Teli, A., et al. 2022. Use of Deferasirox Film-Coated Tablets in Pediatric Patients with Transfusion Dependent Thalassemia: A Single Center Experience. *Biology* [serial on the Internet], [cited 2024 May 14], 11(247): 1-10. Available from: <https://doi.org/10.3390/biology11020247>
- Adramerina, A., Economou, M. 2024. Challenges of Iron Chelation in Thalassaemic Children. *Thalass. Rep* [serial on the Internet], [cited 2024 April 27], 14:1-9. Available from: <https://doi.org/10.3390/thalassrep14010001>
- Ahmadpanah, M., Asadi, Y., Haghghi, M., Ghasemibasir, H., Khanlarzadeh, E., Brand, S. 2019. **In patients with** Minor Beta-Thalassemia, Cognitive Performance Is Related to Length of Education, But Not to Minor Beta-Thalassemia or Hemoglobin Levels. *Iran J Psychiatry* [Serial on the internet], [Cited 2024 May 3], 14(1):47-53. Available from: <https://pmc.ncbi.nlm.nih.gov/articles/PMC6505049>
- Ahmed, A., Sahu, Y., Meena, D., Bairwa, A.L. 2023. Association of lung function by spirometry with serum ferritin in transfusion-dependent thalassemia patient in tertiary care centre. *Int J Contemp Pediatr* [serial on the Internet], [cited 2024 May 5], 10(9): 1402-1405. Available from: <https://dx.doi.org/10.18203/2349-3291.ijcp20232584>
- Alyasin, S., Moghtaderi, M., Amin, R., Kashef, S., Karimi, M. 2011. Pulmonary function test in transfusion-dependent β -thalassemia major patients: a pilot study. *Pediatr Hematol Oncol* [Serial on the internet], [Cited 2024 Marc 20], 28(4):329-33. Available from: <https://doi.org/10.3109/08880018.2010.543449>
- Amar, T., Dalal, Y., Jindal, H., Bharati, T. 2022. Prevalence of pulmonary dysfunction in patients with beta thalassemia major: a systematic review and meta-analysis. *Paediatr Indones* [serial on the Internet], [cited 2024 April 30], 62(1): 7-26. Available from: <https://doi.org/10.14238/pi62.1.2022.7-26>
- Bajwa, H., and Basit, H. 2022. Thalassemia. [Monograph on the nternet]. StatPearls: Treasure Island [Cited 2024 May 16]. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK545151/>
- Baruah, A., Bhattacharjee, J. 2022. Pulmonary function in children with transfusion-dependent thalassemia and its correlation with iron overload. *J Indian Pediatrics* [Serial on the internet], [Cited 2024 May 5], 59(6): 455-458. Available from: <https://pubmed.ncbi.nlm.nih.gov/35481484/>
- Bhagyalakshmi, S., Akhila, N.R., Nanjundaswamy, H.M. 2022. Correlation of serum ferritin levels with pulmonary function test in thalassemia patients. *Nat J Physiol* [Serial on the internet], [Cited 2024 March 17], 12(06): 850-855. Available from: <https://doi.org/10.5455/njppp>.

- Boddu, A., Kumble, A., Mahalingam, S., Baliga, B.S., Achappa, B., 2015. Pulmonary dysfunction in children with beta thalassemia major in relation with iron overload. *Asian J Med Sci* [Serial on the internet], [Cited 2024 April 5], 6(5):47-50. Available from: <https://doi.org/10.3126/ajms.v6i5.11782>
- Brinkman, J.E., Sharma, S. 2023. Physiology, respiratory drive. . [Monograph on the internet]. StatPearls: Treasure Island [Cited 2024 April 28]. Available from: <https://pubmed.ncbi.nlm.nih.gov/29494021/>
- Burril, A., McArdle, C., Davies, B. Lung function in children: simple guide to performing and interpreting spirometry. *Paediatrics and Child Health* [Serial on the internet], [Cited 2025 April 2], 31(7):276-83. Available from: <https://doi.org/10.1016/j.paed.2021.04.003>
- Chan, K.C., Au, C.T., Leung, A.W.A., Li, A.M., Li, C.K., Wong, M.W., et al. 2023. Pulmonary function in patients with transfusion-dependent thalassemia and its associations with iron overload. *Nature Scientific Reports*, [serial on the Internet], [cited 2024 March 17], 13:3674. Available from: <https://doi.org/10.1038/s41598-023-30784-9>
- Chaudhry, R., Bordoni, B. 2023. Anatomy, Thorax, Lungs. [Monograph on the internet]. StatPearls: Treasure Island [Cited 2025 April 16]. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK470197/>
- Childs, J.T., Esterman, A.J., Thoires, K.A., Turner, R.C. 2016. Ultrasound in the assessment of hepatomegaly: A simple technique to determine an enlarged liver using reliable and valid measurements. *Austra J Ultrasound in Med* [Serial on the internet], [2024 Marc 28], 17(3): 113-119. Available from: <https://doi.org/10.1002/j.2205-0140.2014.tb00026.x>
- Eidani, I., Keikhaei, B., Rahim, F., Bagheri, A. 2009. Evaluation of pulmonary function in β -thalassemia. *Pak J Med Sci* [serial on the internet], [Cited 2025 March 28], 25(5): 749-54. <https://www.pjms.com.pk/issues/octdec109>
- Ekteish, F.M., Rimawi, H.S., Ali, M.K.A, Shehabi, I.M. 2007. Pulmonary function test in children with beta-thalassemia major. *Chronic Respiratory Disease* [Serial on the internet], [Cited 2024 February 21], 4(10):19-22. Available from: <https://doi.org/10.1177/1479972306070376>
- El-Shafie, A.M., Bahbah, W.A., El Zefzaf, H.M.S., Mousa, W.A., Abdellatif, H.A., El-Hossary, R.H., et al. 2024. Establishment of Z score reference of liver, splee, and kidney parameters for Egyptian children and adolescents: a cross-sectional randomized study. *Egyptian Paediatric Association Gazette* [serial on the internet], [Cited 2025 February 18], 72(75): 1-11. Available from: <https://doi.org/10.1186/s43054-024-00313-y>
- Fainardi, V., Lombardi, E. 2018. Lung function test to monitor respiratory disease in preschool children. *Acta Biomed* [Serial on the internet], [Cited 2024 April 28], 89(2): 148-156. <https://doi.org/10.23750/abm.v89i2.7155>
- Ferreira, M.S., Marson, F.A., Wolf, V.L., Ribeiro, J.D., Mendes, R.T. 2020. Lung function in obese children and adolescents without respiratory disease: a systematic review. *BMC Pul Med* [Serial on the internet], [Cited 2024 May 19], 20(281): 1-38. <https://doi.org/10.1186/s12890-020-01306-4>

- Fianza, P.I., Rahmawati, A., Widiastha, S.H., Afifah, S., Ghazali, M., Indrajaya, A. et al. 2021. Iron overload in transfusion-dependent Indonesia thalassemic patients. *Hindawi* [Serial on the internet], [Cited 2024 March 22], ID 5581831. Available from: <https://doi.org/10.1155/2021/5581831>
- Fibach, E., Rachmilewitz, E.A., 2017. Pathophysiology and treatment of patients with beta-thalassemia-an update. *F1000 Research* [Serial on the internet], [Cited 2024 April 20], vol. 6, Article ID 2156. Available from: <https://doi.org/10.12688/f1000research.12688.1>
- Forni, G.L., Grazzini, G., Bpudreaux, J., Agostini, V., Omert, L. 2023. Global burden and unmet needs in the treatment of transfusion-dependent β -thalassemia. *J Front. Hematol* [Serial on the internet], [Cited 2024 May 15], 2:1187681:1-12. <https://doi.org/10.3389/frhem.2023.1187681>
- Frazer, D.M., Wilkins, S.J., Darshan, D., Badrick, A.C., McLaren, G.D., Anderson, G.J. 2012. Stimulated erythropoiesis with secondary iron loading leads to a decrease in hepcidin despite an increase in bone morphogenetic protein 6 expression. *Br J Haematol* [Serial on the Internet], [Cited 2024 May 16], 157(5):615-26. <https://doi.org/10.1111/j.1365-2141.2012.09104.x>
- Gadiparthi, M., Bhaskaranand, N., Kini, P.G., Hebbar, S., Mundkur, S.C., 2019. Pulmonary function test in. *Int J Contemp Pediatr*, [serial on the Internet], [cited 2024 March 17], 6(2): 306-309. <http://dx.doi.org/10.18203/2349-3291.ijcp20190450>
- Galanello, R., Origa, R. 2010. Beta-thalassemia. *Orphanet J Rare Dis* [Serial on the internet], [Cited 2024 Marc 25], 5(11): 1-15. Available form: <http://www.ojrd.com/content/5/1/11>
- Graham, B.L., Steenbruggen, I., Miller, M.R., Barjaktarevic, I.Z., Cooper, B.G., Hall, G.L., et al. 2019. Standardization of spirometry 2019 update. An official american thoracic society and european respiratory society technical statement. *Am J Respir Crit Care Med* [Serial on the internet], [Cited 2024 June 8], 200(8): 70-88. Available from: <https://doi.org/10.1164/rccm.201908-1590ST>
- Guidotti, F., Piatti, G., Marcon, A., Cassinerio, E., Giuditta, M., Roghi, A, et al. 2016. Pulmonary dysfunction in thalassemia major: is there any relationship with body iron stores?. *British J of Hematol* [Serial on the internet], [Cited 2024 June 8], 176(2): 309-314. Available from: <https://doi.org/10.1111/bjh.14396>
- Hakeem, A.E., Mousa, S.M.O., Fattah, M.T.A., Aziz, A.O.A., Azeim, S.A.E. 2019. Pulmonary function in Egyptian children with transfusion-dependent β -thalassemia. *British Blood Transfusion Society* [Monograph on the internet] [Cited 2024 April 20]. Available from: <https://doi.org/10.1111/tme.12539>
- Harsoor, J., Ratageri, V.H., Shilpa, C., Illalu, S., Wari, P. 2020. Pulmonary function test in children with beta-thalassemia major. *Karnataka Paed J*, [Serial on the internet], [Cited 2024 February 21], 35(1): 52-56. Available from: https://doi.org/10.25259/KPJ_2_2020

- Hasanzadeh, J., Mirahmadizadeh, A., Karimi, M., Rezaeian, S. 2017. Delay in diagnosis of hemoglobinopathies (thalassemia, sickle cell anemia): A need for management of thalassemia programs. *Iran J Pediatr* [Serial on the internet], [Cited 2025 April 5], 27(2): e67040. Available from: <https://doi.org/10.5812/ijp.6740>
- Jat, K.R., Agarwal, S. 2023. Lung function test in infant and children. *Indian J Ped* [Serial on the internet], [Cited 2024 April 28], 90(8):790-797. Available from: <https://doi.org/10.1007/s12098-023-04588-8>.
- Kanj, N., Shamseddine, A., Gharzeddine, W., Kanj, M., Abi, N.T., Koussa, S., et al. 2000. Relation of ferritin levels to pulmonary function in patients with thalassemia major and the acute effects of transfusion. *Eur J Hamatol* [Serial on internet], [2024 March 17], 64: 396-400. Available from: <https://doi.org/10.1034/j.1600-0609.2000.90106.x>
- Kato, G.J., Steinberg, M.H., Gladwin, M.T. 2017. Intravascular hemolysis and the pathophysiology of sickle cell disease. *J Clin. Invest* [Serial on the internet], [Cited 2024 April 2], 127(3): 750–760. Available from: <https://doi.org/10.1172/JCI89741>
- Lee, J.S., Rhee, T.M., Jeon, K., Cho, Y., Lee, S.W., Han, K.D., et al. 2022. Epidemiologic Trends of Thalassemia, 2006–2018: A Nationwide Population-Based Study. *J. Clin. Med.*, [internet], [cited 2024 May 15], 11(2289): 1-9. Available from: <https://doi.org/10.3390/jcm11092289>
- Lutfi, M.F. 2017. The physiological basis and clinical significance of lung volume measurements. *Multidiscip Respir Med* [Serial on the internet], [Cited 2024 April 28], 12(3): 1-2. Available from: <https://doi.org/10.1186/s40248-017-0084-5>
- Mettananda, S. 2021. Genetic and epigenetic therapies for β -thalasaemia by altering the expression of α -globin gene [Monograph on the internet]. *Frontiers* [Cited 2024 July 10]. Available from: <https://doi.org/10.3389/fgeed.2021.752278>
- Neves, J., Leitz, D., Kraut, S., Bradenberger, C., Agrawal, R., Weissmann, N. et al. 2017. Disruption of the Hpcidin/Ferroportin Regulatory System Causes Pulmonary Iron Overload and Restrictive Lung Disease. *EBioMedicine* [Serial on the internet], [Cited 2024 June 8], 20:230–239. Available from: <http://dx.doi.org/10.1016/j.ebiom.2017.04.036>
- Ozyoruk, D., Misirlioglu, E.D., 2015. Pulmonary functions in children with thalassemia major. *J Pediatr Hematol Oncol* [serial on the Internet], [cited 2024 May 5], 37(8): 605-10. Available from: <https://doi.org/10.1097/MPH.0000000000000425>
- Panwar, N., Gomber, S., Dewan, P., Kumar, R., 2022. Pulmonary dysfunction in transfusion-dependent thalassemia and response to intensive chelation therapy. *Indian Pediatr* [Serial on the internet], [Cited 2025 April 3], 59(6): 451-454. Available from: <https://pubmed.ncbi.nlm.nih.gov/35481485/>
- Ponce, M.C., Sankari, A., Shama, S. 2023. Pulmonary function test. [Monograph on the nternet]. *StatPearls: Treasure Island* [Cited 2025 April 16]. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK482339/>

- Rahim, F., Keikhaei, B., Ebadi, A. 2008. Clinical manifestation of pulmonary dysfunction in β -thalassemia major. *J Med Sci* [Serial on the internet], [Cited 2024 April 5], 8(5): 484-90. <https://doi.org/10.3923/jms.2008.484.490>
- Rao, E., Chandraker, S.K., Singh, M.M. 2023. Global distribution of β -thalassemia mutations: An update. *Gene* [Serial on the internet], [2024 May 7] 89: 148022. Available from: 896. <https://doi.org/10.1016/j.gene.2023.148022>
- Reddy, P.S., Locke, M., Badawy, S.M. 2022. A systematic review of adherence to iron chelation therapy among children and adolescents with thalassemia. *Ann. Med* [Serial on the internet], [Cited 2024 April 20], 54(1):326–42. Available from: <https://doi.org/10.1080/07853890.2022.2028894>
- Roberts, C., Ward, S., Walsted, E., Hul, J.H. 2018. Safety of pulmonary function testing: data from 20 years. *Thorax* [Serial on the internet], [Cited 2025 Marc 25], 73(4): 385-7. Available from: <https://doi.org/10.1136/thoraxjnl-2017-210246>
- Sadiq, S., Rizvi, N.A., Soleja, F.K., Abbasi, M. 2019. Factors affecting spirometry reference range in growing children. *Pak J Med Sci* [Serial on the internet], [Cited 2024 May 20], 35(6): 1587-91. Available from: <https://doi.org/10.12669/pjms.35.6.1212>
- Shafiei, A., Kajiyazdi, M., Ehsani, M., Shahgoli, E., Aghabekloo, S. 2022. Assessing pulmonary function test in patients with thalassemia major: A descriptive cross-sectional study. *J Clinical and Basic Research* [Serial number on the internet], [Cited 2024 March 17], 6(2): 21-28. Available from: <https://doi.org/10.29252/Jcbr.6.2.21>
- Shivaswamy, K., Chikkanna, S., Singh, J., Gubbari, K.T. 2020. Study of pulmonary function in multitransfused children with beta thalassemia major: an observational study. *Int J Contemp Pediatr* [Serial on the internet], [Cited 2024 March 17], 7(12): 2307-11. Available from: <https://dx.doi.org/10.18203/2349-3291.ijcp20205089>
- Sadiq, S., Rizvi, N.A., Soleja, F.K., Abbasi, M. 2019. Factors affecting spirometry reference range in growing children. *Pak J Med Sci* [Serial on the internet], [Cited 2024 May 20], 35(6):1587-91. Available from: <https://doi.org/10.12669/pjms.35.6.1212>
- Siregar, W., Lubis, B., Dalimunthe, W. 2018. Relation of ferritin and nutrition to pulmonary dysfunction in thalassemia major. *Stem cell Oncologi-Adella*(Ed.), Taylor & Francis Group, London.
- Stanojevic, S., Kaminsky, D.A., Miller, M.R., Thompson, B., Aliverti, A., Barjaktarevic, I, et.al. 2021. ERS/ATS technical standard on interpretive strategies for routine lung function tests. *Eur Respir J* [Monograph on the internet], [Cited 2024 May 7]. Available from: <https://doi.org/10.1183/13993003.01499-2021>
- Tari, K., Ardalan, P.V., Abbaszadehdibavar, M., Atashi, A., Jalili, A., Gheidishahrn, M. 2018. Thalassemia an update: molecular basis, clinical features and treatment. *International J Biomed Public Health* [Serial on the internet], [Cited 2024 May 25], 1(1): 48–58. Available from: <http://dx.doi.org/10.22631/ijbmph.2018.56102>

- Theppornpitak, K., Trakarnsanga, B., Lauhasurayotin, S., Poparn, H., Chiengthong, K., Sosothikul, D., et al. 2021. A study to assess and improve adherence to iron chelation therapy in transfusion-dependent thalassemia patients. *Hemoglobin* [Serial on the internet], [Cited 2024 April 20], 45(3): 1-7. Available from: <http://dx.doi.org/10.1080/03630269.2021.1934010>
- Vichinsky, E., Cohen, A., Thompson, A.A., Giardina, P.J., Lal, A., Paley, C., et al. 2018. Epidemiologic and clinical characteristics of nontransfusion-dependent thalassemia in the United States. *Pediatr Blood Cancer* [Serial on the internet], [Cited 2024 July 6], 65(7):e27067. Available from: <https://doi.org/10.1002/psc.27067>
- Villalobos, M.S., Blanquer, M., Moraleda, J.M., Salido, E.J., Oliva, A.B.P. New insights into pathophysiology of β -thalassemia. *Front Med* [Serial on the internet], [Cited 2024 May 20], 9: 880752. Available from: <https://doi.org/10.3389/fmed.2022.880752>
- Wahidiyat, P.A., Sari, T.T., Rahmartani, L.D., Iskandar, S.D., Pratanata, A.M., Yapiy, I., et al. 2022. Thalassemia in Indonesia. *J Hem* [internet], [2024 March 22], 46(1): 39-44. Available from: <https://doi.org/10.1080/03630269.2021.2023565>
- Wahyuni, T., Harlyana, C., Larasati, R.A., Kharisma, D.S., Pratiwi, G., Renovaldi, D. 2022. Buku ajar pemeriksaan abdomen. FKK UMJ
- Whitsett, J.A., Wert, S.E., Weaver, T.E. 2015. Diseases of pulmonary surfactant homeostasis. *Annu Rev Pathol* [Serial on the internet], [Cited 2024 June 8], 10: 371–393. Available from: <https://doi.org/10.1146/annurev-pathol-012513-104644>
- Yousuf, R., Akter, S., Wasek, S.M., Sinha, S., Ahmad, R., Haque, M. 2022. Thalassemia: A Reviewe of the Challenges to the Families and Caregivers. *Cureus* [serial on the Internet], [cited 2024 April 27], 14(2): e.32941. 1-8. Available from: <https://doi.org/10.7759/cureus.32491>
- Zhang, V., Nemeth, E., Kim, A. 2019. Iron in lung pathology. *Pharmaceuticals* [Serial on the internet], [Cited 2024 June 8], 12(30): 1-11. Available from: <https://doi.org/10.3390/ph12010030>