

Evidence-Based Diagnosis and Phenotype Classification in Bronchopulmonary Dysplasia

References

Ambalavanan N, Carlo WA, Tyson JE, Langer JC, Walsh MC, et al; Generic Database; Subcommittees of the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Outcome trajectories in extremely preterm infants. *Pediatrics*. 2012 Jul;130(1):e115-25. doi: 10.1542/peds.2011-3693. Epub 2012 Jun 11. PMID: 22689874; PMCID: PMC3382921.

Bancalari E, Abdenour GE, Feller R, Gannon J. Bronchopulmonary dysplasia: clinical presentation. *J Pediatr*. 1979 Nov;95(5 Pt 2):819-23. doi: 10.1016/s0022-3476(79)80442-4. PMID: 385815.

Barrera CA, Chidambaram AG, Andronikou S, Tapia IE, Otero HJ. Neuroendocrine cell hyperplasia of infancy: Feasibility of objective evaluation with quantitative CT. *Clin Imaging*. 2022 Sep;89:43-48. doi: 10.1016/j.clinimag.2022.06.004. Epub 2022 Jun 8. PMID: 35700553.

Bolisetty S, Dhawan A, Abdel-Latif M, Bajuk B, Stack J, Lui K; New South Wales and Australian Capital Territory Neonatal Intensive Care Units' Data Collection. Intraventricular hemorrhage and neurodevelopmental outcomes in extreme preterm infants. *Pediatrics*. 2014 Jan;133(1):55-62. doi: 10.1542/peds.2013-0372. Epub 2013 Dec 30. Erratum in: *Pediatrics*. 2019 Sep;144(3): PMID: 24379238.

Davis PG, Thorpe K, Roberts R, Schmidt B, Doyle LW, Kirpalani H; Trial Indomethacin Prophylaxis in Preterms Investigators. Evaluating "old" definitions for the "new" bronchopulmonary dysplasia. *J Pediatr*. 2002 May;140(5):555-60. doi: 10.1067/mpd.2002.123291. PMID: 12032521.

DiLorenzo MP, Bhatt SM, Mercer-Rosa L. How best to assess right ventricular function by echocardiography. *Cardiol Young*. 2015 Dec;25(8):1473-81. doi: 10.1017/S1047951115002255. PMID: 26675593; PMCID: PMC4803295.

Doyle LW; Victorian Infant Collaborative Study Group. Changing availability of neonatal intensive care for extremely low birthweight infants in Victoria over two decades. *Med J Aust*. 2004 Aug 2;181(3):136-9. doi: 10.5694/j.1326-5377.2004.tb06203.x. PMID: 15287830.

Greenberg RG, McDonald SA, Laughon MM, Tanaka D, Jensen E, et al; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Online clinical tool to estimate risk of bronchopulmonary dysplasia in extremely preterm infants. *Arch Dis Child Fetal Neonatal Ed*. 2022 Jun 21:fetalneonatal-2021-323573. doi: 10.1136/archdischild-2021-323573. Epub ahead of print. PMID: 35728925; PMCID: PMC9768097.

Gschließer A, Stifter E, Neumayer T, Moser E, Papp A, et al. Inter-expert and intra-expert agreement on the diagnosis and treatment of retinopathy of prematurity. *Am J Ophthalmol*. 2015 Sep;160(3):553-560.e3. doi: 10.1016/j.ajo.2015.05.016. Epub 2015 May 21. PMID: 26004406.

Higgins RD, Jobe AH, Koso-Thomas M, Bancalari E, Viscardi RM, et al. Bronchopulmonary Dysplasia: Executive Summary of a Workshop. *J Pediatr*. 2018 Jun;197:300-308. doi: 10.1016/j.jpeds.2018.01.043. Epub 2018 Mar 16. PMID: 29551318; PMCID: PMC5970962.

Hines D, Modi N, Lee SK, Isayama T, Sjörs G, et al; International Network for Evaluating Outcomes (iNeo) of Neonates. Scoping review shows wide variation in the definitions of bronchopulmonary dysplasia in preterm infants and calls for a consensus. *Acta Paediatr*. 2017 Mar;106(3):366-374. doi: 10.1111/apa.13672. Epub 2016 Dec 8. PMID: 27862302.

Hintz SR, Slovis T, Bulas D, Van Meurs KP, Perritt R, et al; NICHD Neonatal Research Network. Interobserver reliability and accuracy of cranial ultrasound scanning interpretation in premature infants. *J Pediatr*. 2007 Jun;150(6):592-6, 596.e1-5. doi: 10.1016/j.jpeds.2007.02.012. PMID: 17517240; PMCID: PMC2757063.

Hoang-Thi TN, Revel MP, Burgel PR, Bassinet L, Honoré I, et al. Automated computed tomographic scoring of lung disease in adults with primary ciliary dyskinesia. *BMC Pulm Med*. 2018 Dec 18;18(1):194. doi: 10.1186/s12890-018-0758-6. PMID: 30563485; PMCID: PMC6299576.

Hwang JK, Shin SH, Kim EK, Kim SH, Kim HS. Association of newer definitions of bronchopulmonary dysplasia with pulmonary hypertension and long-term outcomes. *Front Pediatr*. 2023 Feb 15;11:1108925. doi: 10.3389/fped.2023.1108925. PMID: 36873629; PMCID: PMC9977292.

Isayama T, Iwami H, McDonald S, Beyene J. Association of Noninvasive Ventilation Strategies With Mortality and Bronchopulmonary Dysplasia Among Preterm Infants: A Systematic Review and Meta-analysis. *JAMA*. 2016 Aug 9;316(6):611-24. doi: 10.1001/jama.2016.10708. Erratum in: *JAMA*. 2016 Sep 13;316(10):1116. PMID: 27532916.

Jensen EA, Edwards EM, Greenberg LT, Soll RF, Ehret DEY, Horbar JD. Severity of Bronchopulmonary Dysplasia Among Very Preterm Infants in the United States. *Pediatrics*. 2021 Jul;148(1):e2020030007. doi: 10.1542/peds.2020-030007. Epub 2021 Jun 2. PMID: 34078747; PMCID: PMC8290972.

Jensen EA, Dysart K, Gantz MG, McDonald S, Bamat NA, et al. The Diagnosis of Bronchopulmonary Dysplasia in Very Preterm Infants. An Evidence-based Approach. *Am J Respir Crit Care Med*. 2019 Sep 15;200(6):751-759. doi: 10.1164/rccm.201812-2348OC. PMID: 30995069; PMCID: PMC6775872.

Jobe AH. Animal Models, Learning Lessons to Prevent and Treat Neonatal Chronic Lung Disease. *Front Med (Lausanne)*. 2015 Aug 7;2:49. doi: 10.3389/fmed.2015.00049. PMID: 26301222; PMCID: PMC4528292.

Jobe AH, Bancalari E. Bronchopulmonary dysplasia. *Am J Respir Crit Care Med*. 2001 Jun;163(7):1723-9. doi: 10.1164/ajrccm.163.7.2011060. PMID: 11401896.

Konietzke P, Weinheimer O, Wielpütz MO, Savage D, Ziyeh T, et al. Validation of automated lobe segmentation on paired inspiratory-expiratory chest CT in 8-14 year-old children with cystic fibrosis. *PLoS One*. 2018 Apr 9;13(4):e0194557. doi: 10.1371/journal.pone.0194557. PMID: 29630630; PMCID: PMC5890971.

Kurihara C, Zhang L, Mikhael M. Newer bronchopulmonary dysplasia definitions and prediction of health economics impacts in very preterm infants. *Pediatr Pulmonol.* 2021 Feb;56(2):409-417. doi: 10.1002/ppul.25172. Epub 2020 Nov 24. PMID: 33200543; PMCID: PMC7902371.

Northway WH Jr, Rosan RC, Porter DY. Pulmonary disease following respirator therapy of hyaline-membrane disease. Bronchopulmonary dysplasia. *N Engl J Med.* 1967 Feb 16;276(7):357-68. doi: 10.1056/NEJM196702162760701. PMID: 5334613.

Poindexter BB, Feng R, Schmidt B, Aschner JL, Ballard RA, et al; Prematurity and Respiratory Outcomes Program. Comparisons and Limitations of Current Definitions of Bronchopulmonary Dysplasia for the Prematurity and Respiratory Outcomes Program. *Ann Am Thorac Soc.* 2015 Dec;12(12):1822-30. doi: 10.1513/AnnalsATS.201504-218OC. PMID: 26397992; PMCID: PMC4722827.

Shennan AT, Dunn MS, Ohlsson A, Lennox K, Hoskins EM. Abnormal pulmonary outcomes in premature infants: prediction from oxygen requirement in the neonatal period. *Pediatrics.* 1988 Oct;82(4):527-32. PMID: 3174313.

Sidhaye VK, Nishida K, Martinez FJ. Precision medicine in COPD: where are we and where do we need to go? *Eur Respir Rev.* 2018 Aug 1;27(149):180022. doi: 10.1183/16000617.0022-2018. PMID: 30068688; PMCID: PMC6156790.

Steinhorn R, Davis JM, Göpel W, Jobe A, Abman S, et al; International Neonatal Consortium. Chronic Pulmonary Insufficiency of Prematurity: Developing Optimal Endpoints for Drug Development. *J Pediatr.* 2017 Dec;191:15-21.e1. doi: 10.1016/j.jpeds.2017.08.006. PMID: 29173299.

Tooley WH. Epidemiology of bronchopulmonary dysplasia. *J Pediatr.* 1979 Nov;95(5 Pt 2):851-8. doi: 10.1016/s0022-3476(79)80451-5. PMID: 385819.

Vyas-Read S, Logan JW, Cuna AC, Machry J, Leeman KT, et al. A comparison of newer classifications of bronchopulmonary dysplasia: findings from the Children's Hospitals Neonatal Consortium Severe BPD Group. *J Perinatol.* 2022 Jan;42(1):58-64. doi: 10.1038/s41372-021-01178-4. Epub 2021 Aug 5. PMID: 34354227; PMCID: PMC8340076.

Walsh MC, Morris BH, Wrage LA, Vohr BR, Poole WK, et al; National Institutes of Child Health and Human Development Neonatal Research Network. Extremely low birthweight neonates with protracted ventilation: mortality and 18-month neurodevelopmental outcomes. *J Pediatr.* 2005 Jun;146(6):798-804. doi: 10.1016/j.jpeds.2005.01.047. PMID: 15973322.

Walsh MC, Yao Q, Horbar JD, Carpenter JH, Lee SK, Ohlsson A. Changes in the use of postnatal steroids for bronchopulmonary dysplasia in 3 large neonatal networks. *Pediatrics.* 2006 Nov;118(5):e1328-35. doi: 10.1542/peds.2006-0359. PMID: 17079534.

Wu KY, Jensen EA, White AM, Wang Y, Biko DM, et al. Characterization of Disease Phenotype in Very Preterm Infants with Severe Bronchopulmonary Dysplasia. *Am J Respir Crit Care Med.* 2020 Jun 1;201(11):1398-1406. doi: 10.1164/rccm.201907-1342OC. PMID: 31995403; PMCID: PMC7258644.