

The Hierarchy of Evidence



The Hierarchy of evidence is based on summaries from the National Health and Medical Research Council (2009), the Oxford Centre for Evidence-based Medicine Levels of Evidence (2011) and Melynyk and Fineout-Overholt (2011).

- I Evidence obtained from a systematic review of all relevant randomised control trials.
- II Evidence obtained from at least one well designed randomised control trial.
- III Evidence obtained from well-designed controlled trials without randomisation.
- IV Evidence obtained from well designed cohort studies, case control studies, interrupted time series with a control group, historically controlled studies, interrupted time series without a control group or with case- series
- V Evidence obtained from systematic reviews of descriptive and qualitative studies
- VI Evidence obtained from single descriptive and qualitative studies
- VII Expert opinion from clinicians, authorities and/or reports of expert committees or based on physiology

Melynyk, B. & Fineout-Overholt, E. (2011). Evidence-based practice in nursing & healthcare: A guide to best practice (2nd ed.). Philadelphia: Wolters Kluwer, Lippincott Williams & Wilkins.

National Health and Medical Research Council (2009). NHMRC levels of evidence and grades for recommendations for developers of guidelines (2009). Australian Government: NHMRC. http://www.nhmrc.gov.au/_files_nhmrc/file/guidelines/evidence_statement_form.pdf

OCEBM Levels of Evidence Working Group Oxford (2011).The Oxford 2011 Levels of Evidence. Oxford Centre for Evidence-Based Medicine. <http://www.cebm.net/index.aspx?o=1025>

Databases searched:	<input checked="" type="checkbox"/> CINAHL (Ebsco)	<input checked="" type="checkbox"/> Medline (Ebsco)	<input type="checkbox"/> Pubmed (NLM)	<input type="checkbox"/> Nursing (Ovid)	<input type="checkbox"/> Emcare (Ovid)	<input type="checkbox"/> Other List: _____
Keywords used:	Phototherapy, neonatal, newborn, jaundice, hyperbilirubinaemia, bilirubin					
Search limits:	2011-2022.					
Other search comments:						

Reference (include title, author, journal title, year of publication, volume and issue, pages)	Evidence level (I-VII)	Key findings, outcomes or recommendations
Moncrieff, G 2018, 'Bilirubin in the newborn: Physiology and pathophysiology', <i>British Journal of Midwifery</i> , vol. 26, no. 6, pp. 362–370, viewed 11 July 2022, < http://search.ebscohost.com/login.aspx?direct=true&db=rzh&AN=129989788&site=ehost-live >.	V	Jaundice in the neonate is usually easily treatable; however, underlying risk factors can significantly change the course of bilirubin metabolism and increase the risk of neurotoxicity.
Flynn, ME 2017, 'A Quality Improvement Project to Decrease Serum Bilirubins and Increase Appropriate Phototherapy Use by Following the AAP Guidelines in a Well Nursery', <i>Pediatric Nursing</i> , vol. 43, no. 3, pp. 143–148, viewed 11 July 2022, < http://search.ebscohost.com/login.aspx?direct=true&db=rzh&AN=123430207&site=ehost-live >	II	Standardising neonatal jaundice care with a clear clinical practice guideline increases neonatal care and outcomes and decreases further jaundice related concerns.
Aprillia, Z, Gayatri, D & Waluyanti, FT 2017, 'Sensitivity, Specificity, and Accuracy of Kramer Examination of Neonatal Jaundice: Comparison with Total Bilirubin Serum', <i>Comprehensive Child & Adolescent Nursing</i> , vol. 40, pp. 88–94, viewed 11 July 2022, < http://search.ebscohost.com/login.aspx?direct=true&db=rzh&AN=126346461&site=ehost-live >.	III	The use of the Kramer test remains an effective and accurate tool for determining jaundice among neonates .
Kemper, A, Newman, T, Slaughter, J, Maisels, J, Watchko, J, Downs, S, Grout, R, Bundy, D, Stark, A, Bogen, D, Volpe Holmes, A, Feldman-Winter, L, Bhutani, V, Brown, S, Maradiaga Panayoti, G, Okechukwu, K, Rappo, P & Russel, T 2022 'Clinical Practical Guideline Revision: Mngagement of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation', <i>The American Academy of Pediatrics</i> vol. 150 no. 3 e2022058859.	VII	This clinical practice guideline provides indications and approaches for phototherapy and escalation of care.