

Clinical studies

Table 8: Excluded studies and reasons for their exclusion

Study	Reason for exclusion
AlKusayer, N. M., Midodzi, W. K., Newhook, L. A., Gill, N., Halfyard, B., Twells, L. K., Determining Clinically Relevant Cutoff Scores for the Iowa Infant Feeding Attitude Scales Among Prenatal Women in Canada, <i>Journal of human lactation : official journal of International Lactation Consultant Association</i> , 34, 691-698, 2018	Insufficient data available for 2 X 2 table
Altuntas, N., Kocak, M., Akkurt, S., Razi, H. C., Kislal, M. F., LATCH scores and milk intake in preterm and term infants: A prospective comparative study, <i>Breastfeeding Medicine</i> , 10, 96-101, 2015	Study conducted in Turkey
Altuntas, N., Turkyilmaz, C., Yildiz, H., Kulali, F., Hirfanoglu, I., Onal, E., Ergenekon, E., Koc, E., Atalay, Y., Validity and reliability of the infant breastfeeding assessment tool, the mother baby assessment tool, and the LATCH scoring system, <i>Breastfeeding Medicine</i> , 9, 191-195, 2014	Study conducted in Turkey
Barbosa, G. E. F., Da Silva, V. B., Pereira, J. M., Soares, M. S., Filho, R. D. A. M., Pereira, L. B., De Pinho, L., Caldeira, A. P., Initial breastfeeding difficulties and association with breast disorders among postpartum women, <i>Revista Paulista de Pediatria</i> , 35, 265-272, 2017	Study conducted in Brazil
Cato, K., Sylven, S. M., Lindback, J., Skalkidou, A., Rubertsson, C., Risk factors for exclusive breastfeeding lasting less than two months-Identifying women in need of targeted breastfeeding support, <i>PLoS ONE [Electronic Resource]</i> , 12, e0179402, 2017	No validated breastfeeding assessment tool used
Cernadas, J.M., Noceda, G., Barrera, L., Martinez, A.M., Garsd, A., Maternal and perinatal factors influencing the duration of exclusive breastfeeding during the first 6 months of life, <i>Journal of Human Lactation</i> , 19, 136-144, 2003	No validated breastfeeding assessment tool used
Chambers, J. A., McInnes, R. J., Hoddinott, P., Alder, E. M., A systematic review of measures assessing mothers' knowledge, attitudes, confidence and satisfaction towards breastfeeding, <i>Breastfeeding Review</i> , 15, 17-25, 2007	Systematic review - studies assessed individually
Chapman, D. J., Kuhnly, J. E., Lactation Assessment Tools: A Qualitative Analysis of Registered Nurses' Perceptions of Tool Limitations and Suggested Improvements, <i>Journal of human lactation : official journal of International Lactation Consultant Association</i> , 34, 682-690, 2018	Qualitative study design
Chittleborough, C. R., Lawlor, D. A., Lynch, J. W., Prenatal prediction of poor maternal and offspring outcomes: implications for selection into intensive parent support programs, <i>Maternal and Child Health Journal</i> , 16, 909-920, 2012	No validated breastfeeding assessment tool used
Creedy, D. K., Dennis, C. L., Blyth, R., Moyle, W., Pratt, J., De Vries, S. M., Psychometric characteristics of the breastfeeding	Insufficient data available for 2 X 2 table

Study	Reason for exclusion
self-efficacy scale: data from an Australian sample, <i>Research in nursing & health</i> , 26, 143-152, 2003	
De Lathouwer,S., Lionet,C., Lansac,J., Body,G., Perrotin,F., Predictive factors of early cessation of breastfeeding. A prospective study in a university hospital, <i>European Journal of Obstetrics, Gynecology, and Reproductive Biology</i> , 117, 169-173, 2004	No validated breastfeeding assessment tool used
Dennis, C. L., The breastfeeding self-efficacy scale: psychometric assessment of the short form, <i>Journal of obstetric, gynecologic, and neonatal nursing : JOGNN / NAACOG</i> , 32, 734-744, 2003	Insufficient data available for 2 X 2 table
Dennis, C. L., Brennenstuhl, S., Abbass-Dick, J., Measuring paternal breastfeeding self-efficacy: A psychometric evaluation of the Breastfeeding Self-Efficacy Scale-Short Form among fathers, <i>Midwifery</i> , 64, 17-22, 2018	Study design not relevant
Dennis, C. L., Faux, S., Development and psychometric testing of the Breastfeeding Self-Efficacy Scale, <i>Research in nursing & health</i> , 22, 399-409, 1999	Insufficient data available for 2 X 2 table
Dennis, C. L., Gagnon, A., Van Hulst, A., Dougherty, G., Predictors of breastfeeding exclusivity among migrant and Canadian-born women: results from a multi-centre study, <i>Maternal & Child Nutrition</i> <i>Matern Child Nutr</i> , 10, 527-44, 2014	No validated breastfeeding assessment tool used
Dennis, C. L., Heaman, M., Mossman, M., Psychometric testing of the breastfeeding self-efficacy scale-short form among adolescents, <i>Journal of Adolescent Health</i> , 49, 265-271, 2011	Insufficient data available for 2 X 2 table
Dick, M. J., Evans, M. L., Arthurs, J. B., Barnes, J. K., Caldwell, R. S., Hutchins, S. S., Johnson, L. K., Predicting early breastfeeding attrition, <i>Journal of Human Lactation</i> , 18, 21-8, 2002	Study did not use cut-off scores
D'Souza, G. L., D'Souza, S. R. B., Kamath, P., Lewis, L. E., Nurse-led early initiation of breastfeeding on the LATCH scoring system, <i>Indian Journal of Public Health Research and Development</i> , 9, 417-421, 2018	Unavailable from the British Library
Dungy, C. I., McInnes, R. J., Tappin, D. M., Wallis, A. B., Oprescu, F., Infant feeding attitudes and knowledge among socioeconomically disadvantaged women in Glasgow, <i>Maternal and Child Health Journal</i> , 12, 313-322, 2008	n < 100
Furman, L., Minich, N. M., Evaluation of breastfeeding of very low birth weight infants: Can we use the Infant Breastfeeding Assessment Tool?, <i>Journal of Human Lactation</i> , 22, 175-181, 2006	Population not relevant
Gercek, E., Sarikaya Karabudak, S., Ardic Celik, N., Saruhan, A., The relationship between breastfeeding self-efficacy and LATCH scores and affecting factors, <i>Journal of Clinical Nursing</i> , 26, 994-1004, 2017	Study conducted in Turkey
Gill, S. L., Reifsnider, E., Lucke, J. F., Mann, A. R., Predicting breast-feeding attrition: Adapting the breast-feeding attrition prediction tool, <i>Journal of Perinatal and Neonatal Nursing</i> , 21, 216-224, 2007	Outcomes not relevant
Gregory, A., Penrose, K., Morrison, C., Dennis, C. L., MacArthur, C., Psychometric properties of the breastfeeding self-efficacy scale- short form in an ethnically diverse U.K. sample, <i>Public Health Nursing</i> , 25, 278-284, 2008	Insufficient data available for 2 X 2 table
Ho, Y. J., McGrath, J. M., A review of the psychometric properties of breastfeeding assessment tools, <i>JOGNN - Journal of Obstetric, Gynecologic, & Neonatal Nursing</i> , 39, 386-400, 2010	Systematic review - studies assessed individually

Study	Reason for exclusion
Hongo, H., Green, J., Nanishi, K., Jimba, M., Development of the revised Japanese Maternal Breastfeeding Evaluation Scale, short version, <i>Asia Pacific journal of clinical nutrition</i> , 26, 392-395, 2017	Study assessed the validity of the Maternal Breastfeeding Evaluation Scale (MBFES) in Japan
Hongo, H., Green, J., Otsuka, K., Jimba, M., Development and psychometric testing of the Japanese version of the maternal breastfeeding evaluation scale, <i>Journal of human lactation : official journal of International Lactation Consultant Association</i> , 29, 611-619, 2013	Study assessed the validity of the Maternal Breastfeeding Evaluation Scale (MBFES) in Japan
Howe, T. H., Lin, K. C., Fu, C. P., Su, C. T., Hsieh, C. L., A review of psychometric properties of feeding assessment tools used in neonates, <i>JOGNN - Journal of Obstetric, Gynecologic, and Neonatal Nursing</i> , 37, 338-349, 2008	Systematic review - studies assessed individually
Humphreys, A. S., Thompson, N. J., Miner, K. R., Assessment of breastfeeding intention using the transtheoretical model and the theory of reasoned action, <i>Health Education Research</i> , 13, 331-341, 1998	No validated breastfeeding assessment tool used
Ingram, J., Johnson, D., Copeland, M., Churchill, C., Taylor, H., The development of a new breast feeding assessment tool and the relationship with breast feeding self-efficacy, <i>Midwifery</i> , 31, 132-137, 2015	Insufficient data available for 2 X 2 table
Janke, J. R., Development of the Breast-Feeding Attrition Prediction Tool, <i>Nursing Research</i> , 43, 100-104, 1994	Insufficient data available for 2 X 2 table
Jensen, D., Wallace, S., Kelsay, P., LATCH: a breastfeeding charting system and documentation tool, <i>Journal of obstetric, gynecologic, and neonatal nursing : JOGNN / NAACOG</i> , 23, 27-32, 1994	Description of tool
Jessri, M., Farmer, A. P., Maximova, K., Willows, N. D., Bell, R. C., Predictors of exclusive breastfeeding: Observations from the Alberta pregnancy outcomes and nutrition (APrON) study, <i>BMC Pediatrics</i> , 13 (1) (no pagination), 2013	Outcome not relevant
Johnson, T. S., Mulder, P. J., Strube, K., Mother-infant breastfeeding progress tool: A guide for education and support of the breastfeeding dyad, <i>JOGNN - Journal of Obstetric, Gynecologic, and Neonatal Nursing</i> , 36, 319-327, 2007	Outcome not relevant
Kelley, M. A., Kviz, F. J., Richman, J. A., Kim, J. H., Short, C., Development of a scale to measure gender-role attitudes toward breast-feeding among primiparas, <i>Women & Health</i> , 20, 47-68, 1993	No validated breastfeeding assessment tool used
Kingston, D., Dennis, C. L., Sword, W., Exploring breast-feeding self-efficacy, <i>Journal of Perinatal and Neonatal Nursing</i> , 21, 207-215, 2007	n < 100
Kools, E. J., Thijs, C., Kester, A. D. M., de Vries, H., The motivational determinants of breast-feeding: Predictors for the continuation of breast-feeding, <i>Preventive Medicine</i> , 43, 394-401, 2006	No validated breastfeeding assessment tool used
Kronborg, H., Vaeth, M., Olsen, J., Iversen, L., Harder, I., Early breastfeeding cessation: Validation of a prognostic breastfeeding score, <i>Acta Paediatrica, International Journal of Paediatrics</i> , 96, 688-692, 2007	Outcome not relevant
Lathouwer, S. D., Lionet, C., Lansac, J., Body, G., Perrotin, F., Predictive factors of early cessation of breastfeeding: A prospective study in a university hospital, <i>European Journal of</i>	Duplicate study of De Lathouwer 2004

Study	Reason for exclusion
Obstetrics Gynecology and Reproductive Biology, 117, 169-173, 2004	
Lau, Y., Htun, T. P., Lim, P. I., Ho-Lim, S., Klainin-Yobas, P., Psychometric Evaluation of 5- and 4-Item Versions of the LATCH Breastfeeding Assessment Tool during the Initial Postpartum Period among a Multiethnic Population, PLoS ONE, 11 (5) (no pagination), 2016	Outcome not relevant
Leff, E. W., Jefferis, S. C., Gagne, M. P., The development of the Maternal Breastfeeding Evaluation Scale, Journal of human lactation : official journal of International Lactation Consultant Association, 10, 105-111, 1994	Outcomes not relevant
Lewallen, L. P., Dick, M. J., Wall, Y., Zickefoose, K. T., Hannah, S. H., Flowers, J., Powell, W., Toward a clinically useful method of predicting early breast-feeding attrition, Applied Nursing Research, 19, 144-148, 2006	Study did not use thresholds or cut-off scores
Lindau, J. F., Mastroeni, S., Gaddini, A., Di Lallo, D., Fiori Nastro, P., Patane, M., Girardi, P., Fortes, C., Determinants of exclusive breastfeeding cessation: identifying an "at risk population" for special support, European Journal of Pediatrics, 174, 533-40, 2015	No validated breastfeeding assessment tool used
Maastrup, R., Hansen, B. M., Kronborg, H., Bojesen, S. N., Hallum, K., Frandsen, A., Kyhnaeb, A., Svarer, I., Hallstrom, I., Factors associated with exclusive breastfeeding of preterm infants. Results from a prospective national cohort study, PLoS ONE, 9 (2) (no pagination), 2014	Population not relevant
McCarter-Spaulling, D. E., Dennis, C. L., Psychometric testing of the Breastfeeding Self-Efficacy Scale-Short Form in a sample of Black women in the United States, Research in nursing & health, 33, 111-119, 2010	Insufficient data available for 2 X 2 table
McDonald, S. D., Pullenayegum, E., Chapman, B., Vera, C., Giglia, L., Fusch, C., Foster, G., Prevalence and predictors of exclusive breastfeeding at hospital discharge, Obstetrics & Gynecology, 119, 1171-9, 2012	No validated breastfeeding assessment tool used
Mercer, A. M., Teasley, S. L., Hopkinson, J., McPherson, D. M., Simon, S. D., Hall, R. T., Evaluation of a breastfeeding assessment score in a diverse population, Journal of human lactation : official journal of International Lactation Consultant Association, 26, 42-48, 2010	Outcomes not relevant
Moran, V. H., Dinwoodie, K., Bramwell, R., Dykes, F., A critical analysis of the content of the tools that measure breast-feeding interaction, Midwifery, 16, 260-268, 2000	Literature review
Mulford, C., The Mother-Baby Assessment (MBA): an "Apgar score" for breastfeeding, Journal of human lactation : official journal of International Lactation Consultant Association, 8, 79-82, 1992	Description of the tool
Nagulesapillai, T., McDonald, S. W., Fenton, T. R., Mercader, H. F. G., Tough, S. C., Breastfeeding difficulties and exclusivity among late preterm and term infants: Results from the all our babies study, Canadian Journal of Public Health, 104, e351-e356, 2013	No validated breastfeeding assessment tool used
Pados, B. F., Park, J., Estrem, H., Awotwi, A., Assessment Tools for Evaluation of Oral Feeding in Infants Younger Than 6 Months, Advances in neonatal care : official journal of the National Association of Neonatal Nurses, 16, 143-150, 2016	Systematic review- studies assessed individually

Study	Reason for exclusion
Phares,T.M., Morrow,B., Lansky,A., Barfield,W.D., Prince,C.B., Marchi,K.S., Braveman,P.A., Williams,L.M., Kinniburgh,B., Surveillance for disparities in maternal health-related behaviors--selected states, Pregnancy Risk Assessment Monitoring System (PRAMS), 2000-2001, Morbidity and Mortality Weekly Report, Surveillance Summaries. 53, 1-13, 2004	No validated breastfeeding scale used
Puapompong, P., Raungrongmorakot, K., Suksamarnwong, M., Ketsuwan, S., Wongin, S., The validity and reliability of the breastfeed observation aid in the exclusive breastfeeding predictions at six weeks postpartum, Journal of the Medical Association of Thailand, 101, 919-924, 2018	Study conducted in Thailand
Riordan, J., Predicting breastfeeding problems. These tools may--or may not--help assess high-risk mother-baby couples, AWHONN Lifelines, 2, 31-3, 1998	Description of tools
Riordan, J. M., Koehn, M., Reliability and validity testing of three breastfeeding assessment tools, Journal of obstetric, gynecologic, and neonatal nursing : JOGNN / NAACOG, 26, 181-187, 1997	Outcomes not relevant - reliability testing
Riordan, J. M., Woodley, G., Heaton, K., Testing validity and reliability of an instrument which measures maternal evaluation of breastfeeding, Journal of human lactation : official journal of International Lactation Consultant Association, 10, 231-235, 1994	n < 100
Riordan, J., Bibb, D., Miller, M., Rawlins, T., Predicting breastfeeding duration using the LATCH breastfeeding assessment tool, Journal of human lactation : official journal of International Lactation Consultant Association, 17, 20-23, 2001	Study did not use thresholds or cut-off scores
Ryser, F. G., Breastfeeding attitudes, intention, and initiation in low-income women: the effect of the best start program, Journal of Human Lactation, 20, 300-5, 2004	n < 100
Schlomer, J. A., Kemmerer, J., Twiss, J. J., Evaluating the association of two breastfeeding assessment tools with breastfeeding problems and breastfeeding satisfaction, Journal of human lactation : official journal of International Lactation Consultant Association, 15, 35-39, 1999	n < 100
Scott, J. A., Binns, C. W., Oddy, W. H., Graham, K. I., Predictors of breastfeeding duration: Evidence from a cohort study, Pediatrics, 117, e646-e655, 2006	No validated breastfeeding assessment tool used
Scott, J. A., Shaker, I., & Reid, M. , The Iowa Infant Feeding Attitude Scale: Analysis of Reliability and Validity, Journal of Applied Social Psychology, 29, 2362-2380, 2006	Outcomes not relevant
Scott,J.A., Shaker,I., Reid,M., Parental attitudes toward breastfeeding: Their association with feeding outcome at hospital discharge, Birth, 31, 125-131, 2004	Outcome not relevant
Sharma, S. D., Jayaraj, S., Tongue-tie division to treat breastfeeding difficulties: Our experience, Journal of Laryngology and Otology, 129, 986-989, 2015	Main focus of study was tongue-tie
Sowjanya, S. V. N. S., Venugopalan, L., LATCH score as a predictor of exclusive breastfeeding at 6 weeks postpartum: A prospective cohort study, Breastfeeding Medicine, 13, 444-449, 2018	Study conducted in India
Stockdale, J., Sinclair, M., Kernohan, G., McCrum-Gardner, E., Keller, J., Sensitivity of the breastfeeding motivational measurement scale: A known group analysis of first time mothers, PLoS ONE, 8 (12) (no pagination), 2013	Outcomes not relevant

Study	Reason for exclusion
Suellentrop, K., Morrow, B., Williams, L., D'Angelo, D., Centers for Disease, Control, Prevention,, Monitoring progress toward achieving Maternal and Infant Healthy People 2010 objectives--19 states, Pregnancy Risk Assessment Monitoring System (PRAMS), 2000-2003, Morbidity & Mortality Weekly Report. Surveillance Summaries, 55, 1-11, 2006	Population not relevant
Todd, D. A., Hogan, M. J., Tongue-tie in the newborn: early diagnosis and division prevents poor breastfeeding outcomes, Breastfeeding Review, 23, 11-6, 2015	Population not relevant - study focuses on tongue tie
Tornese, G., Ronfani, L., Pavan, C., Demarini, S., Monasta, L., Davanzo, R., Does the LATCH score assessed in the first 24 hours after delivery predict non-exclusive breastfeeding at hospital discharge?, Breastfeeding Medicine: The Official Journal of the Academy of Breastfeeding Medicine Breastfeed Med, 7, 423-30, 2012	Insufficient data available for 2 X 2 table
Tuthill, E. L., McGrath, J. M., Graber, M., Cusson, R. M., Young, S. L., Breastfeeding Self-efficacy: A Critical Review of Available Instruments, Journal of human lactation : official journal of International Lactation Consultant Association, 32, 35-45, 2016	Systematic review - studies assessed individually
Twells, L. K., Midodzi, W. K., Ludlow, V., Murphy-Goodridge, J., Burrage, L., Gill, N., Halfyard, B., Schiff, R., Newhook, L. A., Assessing Infant Feeding Attitudes of Expectant Women in a Provincial Population in Canada: Validation of the Iowa Infant Feeding Attitude Scale, Journal of human lactation : official journal of International Lactation Consultant Association, 32, NP9-NP18, 2016	Outcomes not relevant
Wallis, A. B., Brinzaniuc, A., Chereches, R., Oprescu, F., Sirlincan, E., David, I., Dirle, I. A., Dungy, C. I., Reliability and validity of the Romanian version of a scale to measure infant feeding attitudes and knowledge, Acta Paediatrica, International Journal of Paediatrics, 97, 1194-1199, 2008	Study conducted in Romania
Wambach, K. A., Breastfeeding intention and outcome: a test of the theory of planned behavior, Research in nursing & health, 20, 51-9, 1997	Insufficient data available for 2 X 2 table
Webb, A. N., Hao, W., Hong, P., The effect of tongue-tie division on breastfeeding and speech articulation: a systematic review, International Journal of Pediatric Otorhinolaryngology, 77, 635-46, 2013	Systematic review - studies assessed individually
Wheeler, B. J., Dennis, C. L., Psychometric Testing of the Modified Breastfeeding Self-Efficacy Scale (Short Form) Among Mothers of Ill or Preterm Infants, JOGNN - Journal of Obstetric, Gynecologic, and Neonatal Nursing, 42, 70-80, 2013	Population not relevant
Winterburn, S., Fraser, R., Does the duration of postnatal stay influence breast-feeding rates at one month in women giving birth for the first time? A randomized control trial, Journal of Advanced Nursing, 32, 1152-1157, 2000	No validated breastfeeding assessment tool used
Ystrom, E., Niegel, S., Klepp, K.I., Vollrath, M.E., The impact of maternal negative affectivity and general self-efficacy on breastfeeding: the Norwegian Mother and Child Cohort Study, Journal of Pediatrics, 152, 68-72, 2008	No validated breastfeeding assessment tool used
Yu, X., Sun, H., Lin, X., Liu, X., Breastfeeding Evaluation Indicators System is a Promising Evaluation Tool for Preterm Infants in Neonatal Intensive Care Units (NICU), Medical Science Monitor, 22, 4009-4016, 2016	Population not relevant

Study	Reason for exclusion
Yun, S., Liu, Q., Mertzlufft, K., Kruse, C., White, M., Fuller, P., Zhu, B. P., Evaluation of the Missouri WIC (Special Supplemental Nutrition Program for Women, Infants, and Children) breastfeeding peer counselling programme, Public health nutrition, 13, 229-37, 2010	No validated breastfeeding assessment tool used
Zhu, Y., Hernandez, L. M., Mueller, P., Dong, Y., Hirschfeld, S., Forman, M. R., Predictive Models for Characterizing Disparities in Exclusive Breastfeeding Performance in a Multi-ethnic Population in the US, Maternal and child health journal, 20, 398-407, 2016	No validated breastfeeding assessment tool used
Zubaran, C., Foresti, K., Schumacher, M., Thorell, M. R., Amoretti, A., Muller, L., Dennis, C. L., The Portuguese version of the Breastfeeding Self-Efficacy Scale-Short Form, Journal of Human Lactation, 26, 297-303, 2010	Study conducted in Brazil