

Clinical studies

Table 9: Excluded studies and reasons for their exclusion

| Study | Reason for exclusion |
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| Effectiveness of attachment based STEEPTM intervention in a German high-risk sample, Attachment & human development, 18, 443â460, 2016 | Not a RCT |
| 'Make the Connection' parenting skills programme: a controlled trial of associated improvement in maternal attitudes, Journal of Reproductive and Infant Psychology, 2018 | Not relevant population |
| Exploring partners' emotional wellbeing, parenting and attachment at six months postpartum, Women and Birth, Conference: The Australian College of Midwives 2018 "Coming of Age" 21st National Conference. Australia. 31, S31, 2018 | Abstract |
| Mothers With Perceived Insufficient Milk: preliminary Evidence of Home Interventions to Boost Mother-Infant Interactions, Western journal of nursing research, 40, 1184â1202, 2018 | Not an RCT |
| Adding "Circle of Security - Parenting" to treatment as usual in three Swedish infant mental health clinics. Effects on parents' internal representations and quality of parent-infant interaction, Scandinavian journal of psychology, 59, 262â272, 2018 | Not relevant population |
| Adams, E. L., Marini, M. E., Brick, T. R., Paul, I. M., Birch, L. L., Savage, J. S., Ecological momentary assessment of using food to soothe during infancy in the INSIGHT trial, International Journal of Behavioral Nutrition and Physical Activity, 16 (1) (no pagination), 2019 | No relevant outcomes |
| Anzman-Frasca, S, Paul, Im, Moding, Kj, Savage, Js, Hohman, Ee, Birch, LI, Effects of the INSIGHT Obesity Preventive Intervention on Reported and Observed Infant Temperament, Journal of Developmental and Behavioral Pediatrics, 39, 736â743, 2018 | No relevant outcomes |
| Armstrong, KI, Fraser, Ja, Dadds, Mr, Morris, J, Promoting secure attachment, maternal mood and child health in a vulnerable population: a randomized controlled trial, Journal of Paediatrics and Child Health, 36, 555-562, 2000 | No relevant outcomes |
| Barlow, J, Herath, Nins, Bartram, Torrance C, Bennett, C, Wei, Y, The Neonatal Behavioral Assessment Scale (NBAS) and Newborn Behavioral Observations (NBO) system for supporting caregivers and improving outcomes in caregivers and their infants, Cochrane Database of Systematic Reviews, 2018 | Systematic review - included studies checked for relevance |
| Berlin, L. J., Martoccio, T. L., Bryce, C. I., Jones Harden, B., Improving infants' stress-induced cortisol regulation | Not relevant intervention |

| Study | Reason for exclusion |
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| through attachment-based intervention: A randomized controlled trial, <i>Psychoneuroendocrinology</i> , 103, 225-232, 2019 | |
| Blizzard, A. M., Barroso, N. E., Ramos, F. G., Graziano, P. A., Bagner, D. M., Behavioral Parent Training in Infancy: What About the Parent-Infant Relationship?, <i>Journal of clinical child and adolescent psychology : the official journal for the Society of Clinical Child and Adolescent Psychology</i> , American Psychological Association, Division 53, 47, S341-S353, 2018 | Not relevant population |
| Bywater, T., Berry, V., Blower, S. L., Cohen, J., Gridley, N., Kiernan, K., Mandefield, L., Mason-Jones, A., McGilloway, S., McKendrick, K., Pickett, K., Richardson, G., Teare, M. D., Tracey, L., Walker, S., Whittaker, K., Wright, J., Enhancing Social-Emotional Health and Wellbeing in the Early Years (E-SEE): A study protocol of a community-based randomised controlled trial with process and economic evaluations of the incredible years infant and toddler parenting programmes, delivered in a proportionate universal model, <i>BMJ Open</i> , 8, 2018 | Protocol |
| Carnes, D., Plunkett, A., Ellwood, J., Miles, C., Manual therapy for unsettled, distressed and excessively crying infants: A systematic review and meta-analyses, <i>BMJ open</i> , 8 (1) (no pagination), 2018 | Systematic review - included studies checked for relevance, none found |
| Cox, J. E., Harris, S. K., Conroy, K., Engelhart, T., Vyavaharkar, A., Federico, A., Woods, E. R., A parenting and life skills intervention for teen mothers: A randomized controlled trial, <i>Pediatrics</i> , 143, 2019 | Not relevant population |
| Dumas, L., Lepage, M., Bystrova, K., Matthiesen, As, Welles-Nyström, B, Widström, Am, Influence of skin-to-skin contact and rooming-in on early mother-infant interaction: a randomized controlled trial, <i>Clinical nursing research</i> , 22, 310-36, 2013 | Not relevant intervention |
| Easterbrooks, M. A., Kotake, C., Fauth, R., Recurrence of Maltreatment After Newborn Home Visiting: A Randomized Controlled Trial, <i>American journal of public health</i> , 109, 729-735, 2019 | Not relevant population |
| Feinberg, M. E., Kan, M. L., Establishing Family Foundations: Intervention Effects on Coparenting, Parent/Infant Well-Being, and Parent-Child Relations, <i>Journal of Family Psychology</i> , 22, 253-263, 2008 | No relevant outcomes |
| Fraser, J. A., Armstrong, K. L., Morris, J. P., Dadds, M. R., Home visiting intervention for vulnerable families with newborns: Follow-up results of a randomized controlled trial, <i>Child Abuse and Neglect</i> , 24, 1399-1429, 2000 | Not relevant population |
| Goldfeld, S, Price, A, Bryson, H, Bruce, T, Mensah, F, Orsini, F, Gold, L, Hiscock, H, Smith, C, Bishop, L, Jackson D. 'right@home': a randomised controlled trial of sustained nurse home visiting from pregnancy to child age 2 years, versus usual care, to improve parent care, parent responsivity and the home learning environment at 2 years, <i>BMJ Open</i> , 7, e013307, 2017 | Protocol |
| Goldfeld, S., Price, A., Smith, C., Bruce, T., Bryson, H., Mensah, F., Orsini, F., Gold, L., Hiscock, H., Bishop, L., Smith, A., Perlen, S., Kemp, L., Nurse home visiting for | Not relevant intervention |

| Study | Reason for exclusion |
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| families experiencing adversity: A randomized trial, <i>Pediatrics</i> , 143, 2019 | |
| Gualdron, L. M. V., Villalobos, M. M. D., Effect of infant stimulation on the adaptation to birth: a randomized trial, <i>Revista latino-americana de enfermagem</i> , 27, e3176, 2019 | Study conducted in Colombia |
| Hayes, L., Matthews, J., Copley, A., Welsh, D., A randomized controlled trial of a mother-infant or toddler parenting program: demonstrating effectiveness in practice, <i>Journal of Pediatric Psychology</i> , 33, 473-486, 2008 | Not relevant population |
| Heinig, M. J., Maternal perception of the mother-infant relationship: results of a professional education intervention, <i>Journal of Human Lactation</i> , 22, 463, 2006 | Not an RCT |
| Henderson, M., Wittkowski, A., McIntosh, E., McConnachie, A., Buston, K., Wilson, P., Calam, R., Minnis, H., Thompson, L., O'Dowd, J., Law, J., McGee, E., Wight, D., Nixon, C., Shinwell, S., White, J., Crawford, K., O'Brien, R., Clarke, C., Boyd, K., MacLachlan, A., Trial of healthy relationship initiatives for the very early years (THRIVE), evaluating Enhanced Triple P for Baby and Mellow Bumps additional social and care needs during pregnancy and their infants who are at higher risk of maltreatment: Study protocol for a randomised controlled trial, <i>Trials</i> , 20, 2019 | Protocol |
| Hesselink, A. E., van Poppel, M. N., van Eijnsden, M., Twisk, J. W. R., van der Wal, M. F., The effectiveness of a perinatal education programme on smoking, infant care, and psychosocial health for ethnic Turkish women, <i>Midwifery</i> , 28, 306-313, 2012 | Not an RCT |
| Hoivik, M. S., Lydersen, S., Drugli, M. B., Onsoien, R., Hansen, M. B., Nielsen, T. S. B., Video feedback compared to treatment as usual in families with parent-child interactions problems: A randomized controlled trial, <i>Child and Adolescent Psychiatry and Mental Health</i> , 9 (1) (no pagination), 2015 | Not a relevant intervention |
| Huebner, C. E., Barlow, W. E., Tyll, L. T., Johnston, B. D., Thompson, R. S., Expanding developmental and behavioral services for newborns in primary care: Program design, delivery, and evaluation framework, <i>American Journal of Preventive Medicine</i> , 26, 344-355, 2004 | No relevant outcomes |
| Hutcheson, J. L., Cheeseman, S. E., An Innovative Strategy to Improve Family-Infant Bonding, <i>Neonatal network : NN</i> , 34, 189-191, 2015 | No relevant outcomes |
| Kenyon, S, Jolly, K, Hemming, K, Hope, L, Blissett, J, Dann, S-A, Lilford, R, MacArthur, C, Lay support for pregnant women with social risk: a randomised controlled trial, <i>BMJ Open</i> , 6, 2016 | No relevant outcomes |
| Kenyon, S, Jolly, K, Hemming, K, Ingram, L, Blissett, J, Dann, S, Lilford, R, MacArthur, C, Effects of additional lay support for pregnant women with social risk factors on antenatal attendance and maternal psychological health: a randomised controlled trial (ELSIPS), <i>Archives</i> | Poster presentation |

| Study | Reason for exclusion |
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| of Disease in Childhood: Fetal and Neonatal Edition., 99, A18, 2014 | |
| Kenyon, S, Jolly, K, Hemming, K, Ingram, L, Gale, N, Dann, Sa, Chambers, J, MacArthur, C, Evaluation of Lay Support in Pregnant women with Social risk (ELSIPS): a randomised controlled trial, BMC Pregnancy and Childbirth, 12, 11, 2012 | No relevant outcomes |
| Klopper, Margaret J, Examining the effectiveness of a multiple antecedent intervention for increasing secure infant attachment, Dissertation abstracts international: section B: the sciences and engineering, 70, 3205, 2009 | Dissertation |
| Koniak-Griffin, D., Ludington-Hoe, S., Verzemnieks, I., Longitudinal effects of unimodal and multimodal stimulation on development and interaction of healthy infants, Research in nursing & health, 18, 27-38, 1995 | Published before 2000 |
| Koniak-Griffin, D., Verzemnieks, I., Cahill, D., Using videotape instruction and feedback to improve adolescents' mothering behaviors, Journal of Adolescent Health, 13, 570-575, 1992 | Published before 2000 |
| Kristensen, I. H., Kronborg, H., What are the effects of supporting early parenting by enhancing parents' understanding of the infant? Study protocol for a cluster-randomized community-based trial of the Newborn Behavioral Observation (NBO) method, BMC public health, 18, 832, 2018 | Protocol |
| Letourneau, N., Improving adolescent parent-infant interactions: a pilot study, Journal of Pediatric Nursing, 16, 53-62, 2001 | No relevant outcomes |
| Longhi, E, Murray, L, Hunter, R, Wellsted, D, Taylor-Colls, S, MacKenzie, K, Rayns, G, Cotmore, R, Fonagy, P, Fearon, Rm, The NSPCC UK Minding the Baby® (MTB) home-visiting programme, supporting young mothers (aged 14-25) in the first 2 years of their baby's life: study protocol for a randomised controlled trial, Trials, 17, 486, 2016 | Protocol |
| Lutenbacher, M., Elkins, T., Dietrich, M. S., Riggs, A., The Efficacy of Using Peer Mentors to Improve Maternal and Infant Health Outcomes in Hispanic Families: Findings from a Randomized Clinical Trial, Maternal and child health journal, 22, 92-104, 2018 | No relevant outcomes |
| Macdonald, G, Alderdice, F, Clarke, M, Perra, O, Lynn, F, McShane, T, Millen, S, Right from the start: protocol for a pilot study for a randomised trial of the New Baby Programme for improving outcomes for children born to socially vulnerable mothers, Pilot and feasibility studies, 4, 2018 | Relevant protocol, full text published paper searched for but not identified |
| Magill-Evans, J, Harrison, Mj, Rempel, G, Slater, L, Interventions with fathers of young children: systematic literature review, Journal of Advanced Nursing, 55, 248â 264, 2006 | Systematic review - included studies checked for relevance, none found |
| Mihelic, M, Morawska, A, Filus, A, Preparing parents for parenthood: protocol for a randomized controlled trial of a preventative parenting intervention for expectant parents, BMC Pregnancy and Childbirth, 18, 2018 | Protocol |

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| Mihelic, M., Morawska, A., Filus, A., Does a Perinatal Parenting Intervention Work for Fathers? A Randomized Controlled Trial, <i>Infant Mental Health Journal</i> , 39, 687-698, 2018 | No relevant outcomes |
| Munns, A, Watts, R, Hegney, D, Walker, R, Effectiveness and experiences of families and support workers participating in peer-led parenting support programs delivered as home visiting programs: a comprehensive systematic review, <i>Journal of Systematic Reviews and Implementation Reports</i> , 14, 167â 208, 2016 | Systematic review, included studies checked for relevance, none found |
| Nct,, Efficacy of Group Attachment Based Intervention for Vulnerable Families, https://clinicaltrials.gov/show/nct01641744 , 2012 | Trial record, not full paper |
| Niccols, A., 'Right from the Start': randomized trial comparing an attachment group intervention to supportive home visiting, <i>Journal of Child Psychology and Psychiatry</i> , 49, p754-764, 2008 | Intervention not relevant |
| Nicolson, S., Judd, F., Thomson-Salo, F., Mitchell, S., Supporting the adolescent mother-infant relationship: Preliminary trial of a brief perinatal attachment intervention, <i>Archives of Women's Mental Health</i> , 16, 511-520, 2013 | Not an RCT |
| Nugent, Jk, Dym-Bartlett, J, Von, Ende A, Killough, J, Valim, C, A randomized study of the effects of the Newborn Behavioural Observations (NBO) system on sensitivity in mother-infant interaction, 2015 | No relevant outcomes |
| O'Brien, R, Buston, K, Wight, D, McGee, E, White, J, Henderson, M, A realist process evaluation of Enhanced Triple P for Baby and Mellow Bumps, within a Trial of Healthy Relationship Initiatives for the Very Early years (THRIVE): study protocol for a randomized controlled trial, <i>Trials</i> , 20, 2019 | Protocol |
| O'Neill, A, Swigger, K, Kuhlmeier, V, 'Make the Connection' parenting skills programme: a controlled trial of associated improvement in maternal attitudes, <i>Journal of Reproductive and Infant Psychology</i> , 36, 536â 547, 2018 | Infants not less than 8 weeks old at enrollment |
| Park, M, Park, Km, Effects of a Reinforcement Program for Postpartum Care Behavioral Skills of Couples with Their First Baby, <i>Journal of Korean Academy of Nursing</i> , 49, 137â 148, 2019 | Not in English language |
| Risholm Mothander, P., Furmark, C., Neander, K., Adding "Circle of Security - Parenting" to treatment as usual in three Swedish infant mental health clinics. Effects on parents' internal representations and quality of parent-infant interaction, <i>Scandinavian journal of psychology</i> , 59, 262-272, 2018 | Infant not less than 8 weeks at enrollment |
| Saïas, T, Greacen, T, Tubach, F, Dugravier, R, Marcault, E, Tereno, S, Tremblay, Re, Guédeney, A, Supporting families in challenging contexts: the CAPEDP project, <i>Global health promotion</i> , 20, 66-70, 2013 | Protocol |
| Salehi, K., Taleghani, F., Kohan, S., Effect of attachment-based interventions on prenatal attachment: | Relevant protocol - Published SR not available yet |

| Study | Reason for exclusion |
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| a protocol for systematic review, Reproductive Health, 16, 2019 | |
| Sawyer, Ac, Lynch, J, Bowering, K, Jeffs, D, Clark, J, Mpundu-Kaambwa, C, Sawyer, Mg, An equivalence evaluation of a nurse-moderated group-based internet support program for new mothers versus standard care: a pragmatic preference randomised controlled trial, BMC Pediatrics, 14, 119, 2014 | Study protocol |
| Tester-Jones, M., O'Mahen, H., Karl, A., Watkins, E., An experimental study to investigate how inducing rumination in dysphoric mothers will affect mother-infant interaction, Archives of Women's Mental Health, 18 (2), 407, 2015 | Conference abstract |