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## Materials And Education Method For Preparation Of Childbirth And Postnatal Period In Antenatal Classes: A Scoping Review

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## **Abstract**

Education in preparation for childbirth and the postnatal period through antenatal classes has long been known and was first aimed at reducing anxiety and labor pain. Recently, education for preparation for childbirth and the postnatal period through antenatal classes is increasingly being promoted and its goals are also growing. However, there is no clear information about what forms of education for preparation for labor and the postnatal period in the antenatal class have been researched by experts. The study aimed to systematically map the research conducted in this area, as well as to identify existing gaps in knowledge. Scoping Review with reference to PRISMA Extension for Scoping Reviews (PRISMA-ScR) by using three databases for article searches, which are MEDLINE, ProQuest and EBSCO. We found 18 relevant research articles which published 16 different education programs for labor preparation and postnatal period. The educational material presented includes preparation for childbirth, the postnatal period and decision making. The delivery methods used included the start time of education, the number of meeting sessions, the duration of the meeting, the use of a special room for, the number of members per session, the participation of couples in sessions, learning methods, routine exercises in class, implementation of exercises at home, educators or facilitators who convey, the implementation of visits to the delivery room, and the use of supporting information technology. Education preparation for labor and the postnatal period in the literature uses a variety of delivery methods and material topics. Existing research measures different outcomes and shows quite diverse effectiveness on labor and postnatal periods. The next researcher is expected to conduct research on education programs for childbirth preparation and the postnatal period by referring to the latest evidence based and using RCT research methods and a large sample size and multi-center.

**Keywords:** childbirth education; material; method

## **REFERENCES**

- 1. Aromataris E, M. (2020) *JBI MANUAL FOR EVIDENCE SYNTHESIS*.
- Artieta-Pinedo, I. et al. (2017) 'Framework for the establishment of a feasible, tailored and effective perinatal education programme', BMC Pregnancy and Childbirth. BMC Pregnancy and Childbirth, 17(1), pp. 1–10. doi: 10.1186/s12884-017-1234-7.
- 3. Ayiasi, M. R. *et al.* (2013) 'Exploring the focus of prenatal information offered to pregnant mothers regarding newborn care in rural Uganda', *BMC Pregnancy and Childbirth*, 13. doi: 10.1186/1471-2393-13-176.
- 4. Badan Pusat Statistik (2015) *Profil Penduduk Indonesia Hasil SUPAS 2015*. Badan Pusat Statistik.
- 5. Belay, S. and Haidar, J. (2014) 'Effect of prenatal education on breastfeeding initiation

- and exclusive breast feeding rate in selected health institutions of Hawassa city, the capital of Snnpr, Ethiopia', *East African journal of public health*, 11(1), pp. 622–632.
- Bilgin, N. C. et al. (2020) 'Effect of childbirth education on the perceptions of childbirth and breastfeeding self-efficacy and the obstetric outcomes of nulliparous women(\*,\*\*,\*\*).', Health care for women international. England: Taylor and Francis Inc., 41(2), pp. 188–204. doi: 10.1080/07399332.2019.1672171.
- Brixval, C. S. et al. (2015) 'The effect of antenatal education in small classes on obstetric and psycho-social outcomes a systematic review', Systematic Reviews, 4(1), pp. 1–9. doi: 10.1186/s13643-015-0010-x.
- Brixval, C. S., Axelsen, S. F., et al. (2016) 'Antenatal education in small classes may increase childbirth self-efficacy: Results from a Danish randomised trial', Sexual and Reproductive Healthcare. Netherlands: Elsevier B.V., 10, pp. 32–34. doi: 10.1016/j. srhc.2016.03.003.
- Brixval, C. S., Thygesen, L. C., et al. (2016) 'Effect of antenatal education in small classes versus standard auditorium-based lectures on use of pain relief during labour and of obstetric interventions: results from the randomised NEWBORN trial', BMJ Open. London: BMJ Publishing Group LTD, 6(6). doi: http://dx.doi.org/10.1136/ bmjopen-2015-010761.
- 10. Brixval, C. S. S. et al. (2016) 'Effect of antenatal education in small classes versus standard auditorium-based lectures on use of pain relief during labour and of obstetric interventions: results from the randomised NEWBORN trial', BMJ Open. London: BMJ Publishing Group LTD, 6(6). doi: http://dx.doi.org/10.1136/bmjopen-2015-010761.
- 11. Bueno-Gutierrez, D. and Chantry, C. (2015) 'Using the socio-ecological framework

- to determine breastfeeding obstacles in a low-income population in Tijuana, Mexico: Healthcare services', *Breastfeeding Medicine*, 10(2), pp. 124–131. doi: 10.1089/bfm.2014.0109.
- 12. Byrne, J. et al. (2014) 'Effectiveness of a Mindfulness-Based Childbirth Education pilot study on maternal self-efficacy and fear of childbirth.', Journal of midwifery & women's health. United States: John Wiley and Sons Inc., 59(2), pp. 192–197. doi: 10.1111/jmwh.12075.
- 13. Çankaya, S. and Şimşek, B. (2020) 'Effects of Antenatal Education on Fear of Birth, Depression, Anxiety, Childbirth Self-Efficacy, and Mode of Delivery in Primiparous Pregnant Women: A Prospective Randomized Controlled Study.', Clinical nursing research. United States: SAGE Publications Inc., p. 1054773820916984. doi: 10.1177/1054773820916984.
- 14. Cato, K. et al. (2017) 'Risk factors for exclusive breastfeeding lasting less than two months Identifying women in need of targeted breastfeeding support', PLoS ONE, 12(6), pp. 1–13. doi: 10.1371/journal. pone.0179402.
- 15. Cavkaytar, S. et al. (2014) 'Postpartum urinary retention after vaginal delivery: Assessment of risk factors in a case-control study', Journal of the Turkish German Gynecology Association, 15(3), pp. 140–143. doi: 10.5152/jtgga.2014.13102.
- 16. Cleland, J., Shah, I. H. and Daniele, M. (2015) 'Interventions to Improve Postpartum Family Planning in Low- and Middle-Income Countries: Program Implications and Research Priorities', Studies in Family Planning, 46(4), pp. 423–441. doi: 10.1111/j.1728-4465.2015.00041.x.
- 17. Daniels RNC-OB BA, M. and Wedler RN, J. A. (2015) 'Enhancing Childbirth Education through Technology', *International Journal*

- of Childbirth Education. Minneapolis: INTERNATIONAL CHILDBIRTH EDUCATION ASSOCIATION, 30(3), pp. 28–32. Available at: https://search.proquest.com/docview/169 9260388?accountid=25704.
- 18. Dehcheshmeh, F. S., Salehian, T. and Parvin, N. (2014) 'The effect of spouses' educational classes held for primiparous women referring to Hajar hospital on their quality of life and pregnancy outcomes.', *Iranian journal of nursing and midwifery research*. Wolters Kluwer -- Medknow Publications, 19(7 Suppl 1), pp. S59-63. Available at: http://www.ncbi.nlm.nih.gov/pubmed/25949253 (Accessed: 24 June 2020).
- 19. Divakar, H. and Gudi, S. (2017) 'Postpartum Family Planning', *Contraception: Past, Present and Future*, pp. 380–380. doi: 10.5005/jp/books/12894 39.
- 20. Ferguson, S., Davis, D. and Browne, J. (2013) 'Does antenatal education affect labour and birth? A structured review of the literature', *Women and Birth*. Australian College of Midwives, 26(1), p. e5. doi: 10.1016/j.wombi.2012.09.003.
- 21. Ferrari, R. M. et al. (2013) 'A qualitative study of women's perceptions of provider advice about diet and physical activity during pregnancy', *Patient Education and Counseling*, 91(3), pp. 372–377. doi: 10.1016/j.pec.2013.01.011.
- 22. Fisher, C. et al. (2012) 'Participant experiences of mindfulness-based childbirth education: a qualitative study', *BMC Pregnancy and Childbirth*. London: BioMed Central, 12, p. 126. doi: http://dx.doi.org/10.1186/1471-2393-12-126.
- 23. Fisher, J. et al. (2012) 'Prevalence and determinants of common perinatal mental disorders in women in low-and lower-middle-income countries: A systematic review', Bulletin of the World Health

- *Organization*, 90(2), pp. 139–149. doi: 10.2471/BLT.11.091850.
- 24. Fitria, N Puspitasari, A. (2015) 'Hubungan dan Faktor Risiko Partus Lama Riwayat Perdarahan Postpartum dan Berat Bayi Lahir Besar dengan Kejadian Perdarahan Postpartum', *Jurnal Biometrika dan Kependudukan*, 4, pp. 118–124.
- 25. Ghaedrahmati, M. *et al.* (2017) 'Postpartum depression risk factors: A narrative review', *Journal of education and health promotion*. Medknow Publications & Media Pvt Ltd, 6, p. 60. doi: 10.4103/jehp.jehp 9 16.
- 26. Gilmer, C. et al. (2016) 'Parent education interventions designed to support the transition to parenthood: A realist review.', International journal of nursing studies. England, 59, pp. 118–133. doi: 10.1016/j. ijnurstu.2016.03.015.
- 27. Gregg, V. H. and Ferguson, J. E. (2017) 'Exercise in Pregnancy', *Clinics in Sports Medicine*. Elsevier Inc, 36(4), pp. 741–752. doi: 10.1016/j.csm.2017.05.005.
- 28. Guszkowska, M. (2014) 'The effect of exercise and childbirth classes on fear of childbirth and locus of labor pain control', *Anxiety, Stress and Coping*. England, 27(2), pp. 176–189. doi: 10.1080/10615806.2013.830107.
- 29. Hatamleh, R. *et al.* (2019) 'The effects of a childbirth preparation course on birth outcomes among nulliparous Jordanian women.', *Midwifery.* Scotland, 72, pp. 23–29. doi: 10.1016/j.midw.2019.02.002.
- 30. Hauck, Y. et al. (2016) 'Mindfulness-Based Childbirth Education: Incorporating Adult and Experiential Learning With Mindfulness-Based Stress Reduction in Childbirth Education', *The Journal of Perinatal Education*, 25(3), pp. 162–173. doi: 10.1891/1058-1243.25.3.162.
- 31. Herval, Á. M. *et al.* (2019) 'Health education strategies targeting maternal and child health', *Medicine*, 98(26), p. e16174. doi: 10.1097/md.0000000000016174.

- 32. Hinman, S. K. *et al.* (2015) 'Exercise in Pregnancy: A Clinical Review', *Sports Health*, 7(6), pp. 527–531. doi: 10.1177/1941738115599358.
- 33. Hoda Jradi, T. A. O. (2013) 'Antenatal Education: An Assessment of Pregnant Women Knowledge and Preferences in Saudi Arabia', *Journal of Women's Health Care*, 02(04), pp. 2–6. doi: 10.4172/2167-0420.1000139.
- 34. Hong, Q. et al. (2018) Mixed Methods Appraisal Tool (MMAT), Version 2018., Canadian Intellectual Property Office. Canada. Available at: http://mixedmethodsappraisaltoolpublic.pbworks.com/w/file/fetch/127916259/MMAT\_2018-08-01\_ENG.pdf%0Ahttp://mixedmethodsappraisaltoolpublic.pbworks.com/.
- 35. de Jersey, S. J. *et al.* (2013) 'An observational study of nutrition and physical activity behaviours, knowledge, and advice in pregnancy', *BMC pregnancy and childbirth*, 13, p. 115. doi: 10.1186/1471-2393-13-115.
- 36. Karabulut, O. *et al.* (2016) 'Does antenatal education reduce fear of childbirth?', *International Nursing Review*, 63(1), pp. 60–67. doi: 10.1111/inr.12223.
- 37. Karabulut, Ö. *et al.* (2016) 'Does antenatal education reduce fear of childbirth?', *International nursing review*. England: Blackwell Publishing Ltd, 63(1), pp. 60–67. doi: 10.1111/inr.12223.
- 38. Kemenkes RI (2017) Survey Demografi dan Kesehatan Indonesia, Survei Demografi dan Kesehatan Indonesia 2017. doi: 0910383107 [pii]\r10.1073/pnas.0910383107.
- 39. Kemenkes RI (2018) *Infodatin: Menyusui* Sebagai Dasar Kehidupan, Kementerian Kesehatan RI Pusat Data dan Informasi.
- 40. Khresheh, R. *et al.* (2018) 'Implementation of a childbirth preparation program in the maternal and child health centres in

- Jordan.', *Midwifery*. Scotland, 61, pp. 1–7. doi: 10.1016/j.midw.2018.02.010.
- 41. Koushede, V. et al. (2017) 'Antenatal small-class education versus auditorium-based lectures to promote positive transitioning to parenthood A randomised trial', *PLoS One*. San Francisco: Public Library of Science, 12(5), p. e0176819. doi: http://dx.doi.org/10.1371/journal.pone.0176819.
- 42. Kovala, S., Cramp, A. G. and Xia, L. (2016) 'Prenatal Education: Program Content and Preferred Delivery Method From the Perspective of the Expectant Parents.', *The Journal of perinatal education*. Springer Publishing Company, 25(4), pp. 232–241. doi: 10.1891/1058-1243.25.4.232.
- 43. Laughon, S. K. *et al.* (2014) 'Neonatal and maternal outcomes with prolonged second stage of labor', *Obstetrics and Gynecology*, 124(1), pp. 57–67. doi: 10.1097/AOG.00000000000000278.
- 44. Lumbiganon, P. et al. (2016) 'Antenatal breastfeeding education for increasing breastfeeding duration (Review)'. doi: 10.1002/14651858.CD006425.pub4.www.cochranelibrary.com.
- 45. Madhavanprabhakaran, G. K. et al. (2013) 'Effects of pregnancy related anxiety on labour outcomes: A prospective cohort study', Journal of Research in Nursing and Midwifery, 2(7).
- 46. Malata, A. and Chirwa, E. (2011) 'Assessment of the effectiveness of childbirth education in Malawi', *African Journal of Midwifery and Women's Health*, 5(2), pp. 67–72. doi: 10.12968/ajmw.2011.5.2.67.
- 47. McDonald, S. D. et al. (2014) 'A qualitative descriptive study of the group prenatal care experience: Perceptions of women with lowrisk pregnancies and their midwives', BMC Pregnancy and Childbirth. BioMed Central Ltd., 14(1). doi: 10.1186/1471-2393-14-334.
- 48. Mehrabadi, M., Mortazavi, F. and Rakhshani,

- M. H. (2019) 'Examining the Effect of Attending Childbirth Preparation Classes on Prepartum and Postpartum Maternal Mental Well-being Index', *Journal of Obstetrics, Gynecology and Cancer Research*, 4(2), pp. 69–74. doi: 10.30699/jogcr.4.2.69.
- 49. Munn, Z. et al. (2018) 'Systematic review or scoping review? Guidance for authors when choosing between a systematic or scoping review approach', BMC Medical Research Methodology. BMC Medical Research Methodology, 18(1), pp. 1–7. doi: 10.1186/s12874-018-0611-x.
- 50. Murphy Tighe, S. (2010) 'An exploration of the attitudes of attenders and non-attenders towards antenatal education', *Midwifery*, 26(3), pp. 294–303. doi: 10.1016/j. midw.2008.06.005.
- 51. Norman, E. *et al.* (2010) 'An exercise and education program improves weil-being of new mothers: A randomized controlled trial', *Physical Therapy*, 90(3), pp. 348–355. doi: 10.2522/ptj.20090139.
- 52. Nystedt, A. and Hildingsson, I. (2014) 'Diverse definitions of prolonged labour and its consequences with sometimes subsequent inappropriate treatment', *BMC Pregnancy and Childbirth*, 14(1), pp. 1–11. doi: 10.1186/1471-2393-14-233.
- 53. O'Sullivan, C., O'Connell, R. and Devane, D. (2014) 'A Descriptive Survey of the Educational Preparation and Practices of Antenatal Educators in Ireland', *The Journal of Perinatal Education*, 23(1), pp. 33–40. doi: 10.1891/1058-1243.23.1.33.
- 54. Ozdemir, M. E. *et al.* (2018) 'The effect of the systematic birth preparation program on fear of vaginal delivery and quality of life.', *Archives of gynecology and obstetrics*. Germany, 298(3), pp. 561–565. doi: 10.1007/s00404-018-4835-0.
- 55. Paz-Pascual, C. *et al.* (2019) 'Consensus on priorities in maternal education: results

- of Delphi and nominal group technique approaches.', *BMC pregnancy and childbirth*. NLM (Medline), 19(1), p. 264. doi: 10.1186/s12884-019-2382-8.
- 56. Pinar, G., Avsar, F. and Aslantekin, F. (2016) 'Evaluation of the Impact of Childbirth Education Classes in Turkey on Adaptation to Pregnancy Process, Concerns About Birth, Rate of Vaginal Birth, and Adaptation to Maternity: A Case- Control Study.', Clinical nursing research. United States: SAGE Publications Inc., 27(3), pp. 315–342. doi: 10.1177/1054773816682331.
- 57. Rahmawati, D., Suhartati, S. and Sulistiani, E. (2017) 'Hubungan Partus Lama Dan Anemia Dengan Kejadian Perdarahan Postpartum Di Ruang Vk Bersalin Rsud. Dr. H. Moch Ansari Saleh Banjarmasin', *Dinamika Kesehatan Jurnal Kebidanan Dan Keperawatan*, 7(2), pp. 1–10.
- 58. Rezaeyan, M. et al. (2016) 'Effects of education on exercise (physical activity) performance of pregnant women', International Journal of Medical Research & Health Sciences, 12, pp. 142–146.
- 59. Rosales, A. *et al.* (2017) 'Recognition of and care-seeking for maternal and newborn complications in Jayawijaya district, Papua province, Indonesia: a qualitative study', *Journal of health, population, and nutrition*, 36(Suppl 1), p. 44. doi: 10.1186/s41043-017-0122-0.
- 60. Sadiyah, N. (2013) 'Pengaruh Faktor Reproduksi Ibu dan Anemia Terhadap Lama', Jurnal Biometrika dan Kependudukan, 1, pp. 136–142.
- 61. Schmidt, T. et al. (2017) 'Physical Exercise During Pregnancy – How Active Are Pregnant Women in Germany and How Well Informed? Körperliche Aktivität in der Schwangerschaft – wie sportlich sind unsere Schwangeren und wie gut sind sie informiert?', Geburtsh Frauenheilk, 77, pp. 508–515. doi: 10.1055/s-0043-107785.

- 62. Schreiner, L. *et al.* (2018) 'Systematic review of pelvic floor interventions during pregnancy', *International Journal of Gynecology and Obstetrics*, 143(1), pp. 10–18. doi: 10.1002/ijgo.12513.
- 63. Serbanescu, F. et al. (2019) 'Addressing the first delay in saving mothers, giving life districts in Uganda and Zambia: Approaches and results for increasing demand for facility delivery services', *Global Health Science and Practice*, 7, pp. S48–S67. doi: 10.9745/GHSP-D-18-00343.
- 64. Serçekuş, P. and Başkale, H. (2015) 'Effects of antenatal education on fear of childbirth, maternal self-efficacy and parental attachment', *Midwifery*. Scotland, 34(2014), pp. 166–172. doi: 10.1016/j. midw.2015.11.016.
- 65. Serçekuş, P. and Başkale, H. (2016) 'Effects of antenatal education on fear of childbirth, maternal self-efficacy and parental attachment', *Midwifery*. Churchill Livingstone, 34, pp. 166–172. doi: 10.1016/j. midw.2015.11.016.
- 66. Serçekuş, P. and Mete, S. (2010a) 'Effects of antenatal education on maternal prenatal and postpartum adaptation.', *Journal of advanced nursing*, 66(5), pp. 999–1010. doi: 10.1111/j.1365-2648.2009.05253.x.
- 67. Serçekuş, P. and Mete, S. (2010b) 'Turkish women's perceptions of antenatal education', *International Nursing Review*, 57(3), pp. 395–401. doi: 10.1111/j.1466-7657.2009.00799.x.
- 68. Soriano-Vidal, F. J. *et al.* (2018) 'The effect of prenatal education classes on the birth expectations of Spanish women', *Midwifery*.

- Elsevier Ltd, 60, pp. 41–47. doi: 10.1016/j. midw.2018.02.002.
- 69. State of Queensland (Queensland Health) (2018) 'Recommendations for antenatal education Content, development and delivery', (Juli).
- 70. Stoll, K. *et al.* (2018) 'A systematic review of nonpharmacological prenatal interventions for pregnancy-specific anxiety and fear of childbirth', *Birth*, 45(1), pp. 7–18. doi: 10.1111/birt.12316.
- 71. Svensson, J., Barclay, L. and Cooke, M. (2008) 'Effective Antenatal Education: Strategies Recommended by Expectant and New Parents', *Journal of Perinatal Education*, 17(4), pp. 33–42. doi: 10.1624/105812408x364152.
- 72. Swift, E. M. et al. (2020) 'Enhanced Antenatal Care: Combining one-to-one and group Antenatal Care models to increase childbirth education and address childbirth fear.', Women and birth: journal of the Australian College of Midwives. Netherlands. doi: 10.1016/j.wombi.2020.06.008.
- 73. Tricco, A. C. et al. (2018) 'PRISMA Extension for Scoping Reviews (PRISMA-ScR): Checklist and Explanation', Annals of Internal Medicine. American College of Physicians, 169(7), pp. 467–473. doi: 10.7326/M18-0850.
- 74. Weatherspoon, D., Weatherspoon, C. and Ristau, C. (2015) 'Speaking Their Language: Integrating Social Media into Childbirth Education Practice'.
- 75. World Health Organization (2017) Guideline: Protecting, promoting and supporting breastfeeding in facilities providing maternity and newborn services, World Health Organisation.