

Supplementary File 1: Excluded Studies

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| Akbarzadeh M. Rafiee B. Asadi N. Zare N. Comparative effect of attachment and relaxation training on perception of fetal movement and mother's anxiety in primiparous women: A randomized controlled study. Trends Med Research, 2016; 11:2, 62-68 | Wrong intervention |
| Akselsson A. Georgsson S. Lindgren H. Pettersson K. Radestad I. Women's attitudes, experiences and compliance concerning the use of Mindfetalness- a method for systematic observation of fetal movements in late pregnancy. BMC Pregnancy Childbirth, 2017; 17:1, 359 | Wrong study design |
| Akselsson A. Linde A. Georgsson S. Lindgren H. Pettersson K. Radestad I. Structured daily observation of fetal movements is associated with fewer children referred to neonatal care. BMC Pregnancy Childbirth, 2017; 17. | Wrong intervention |
| Akselsson A. Lindgren H. Georgsson S. Warland J. Pettersson K. Raydestad I. Daily structured approach to awareness of fetal movements and pregnancy outcome - a prospective study. Sexual Reproduct Healthcare, 2019; 20, 32-37 | Wrong study design |
| Anderson T. Cochrane made simple. Fetal movement counting. The Practising Midwife, 2007; 10:3, 37-38 | Duplicate |
| Anderson T. Cochrane made simple. Fetal movement counting. The Practising Midwife, 2007; 10:3, 37-38 | Wrong study design |
| Beach PR. Duff PW. Everett MT. Use of the fetal movement chart. J Royal College General Practitioners, 1983; 33:252, 424-430 | Wrong study design |
| Bellussi F. Po' G. Livi A. Saccone G. De Vivo V. Oliver EA. Berghella V. et al. Fetal Movement Counting and Perinatal Mortality: A Systematic Review and Meta-analysis. Obstet Gynecol, 2020; 135:2, 453-462 | Wrong study design |
| Berbey R. Manduley A. Vigil-De Gracia P. Counting fetal movements as a universal test for fetal wellbeing. International J Gynecol Obstet, 2001; 74:3, 293-295 | Wrong study design |
| Boos R. Gnirs J. Schmidt W. A new technique to registrate fetal movement. Archives Gynecol Obstet, 1989; 245, 53-44 | Wrong study design |
| Clark J. Britton K. Factors contributing to client nonuse of the Cardiff Count-to-ten fetal activity chart. J Nurse-Midwifery, 1985; 30:6, 320-326 | Wrong study design |
| Coleman CA. Fetal movement counts: an assessment tool. J Nurse-Midwifery, 1981; 26:1, 15-23 | Wrong study design |
| De Muylder X. Womens' views on keeping fetal movement charts. International J Gynaecol Obstet, 1988; 27:3, 353-357 | Wrong study design |
| Debdas AK. Kaur T. Menon H. Monitoring high risk pregnancy by maternal counting of foetal movement. J Indian Med Assoc, 1984; 82:2, 57-59 | Abstract - Full Text unavailable |
| Draper J. Field S. Thomas H. Hare MJ. Womens' views on keeping fetal movement charts. BJOG, 1986; 93:4, 334-338 | Wrong study design |

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| Draper J. Thomas H. Hare MJ. Fetal movement counting. Lancet, 1986; 1:8472, 92 | Commentary or Letter to Editor |
| Eggertsen SC. Benedetti TJ. Fetal well-being assessed by maternal daily fetal-movement counting. J Family Practice, 1984, 18:5, 771-774 | Wrong study design |
| Eggertsen SC. Benedetti TJ. Maternal response to daily fetal movement counting in primary care settings. Am J Perinatol, 1987; 4:4, 327-330 | Wrong study design |
| Ehrstrom C. Fetal movement monitoring in normal and high-risk pregnancy. Acta Obstet Gynecol Scand, 1979; Supp 80 | Wrong study design |
| Fischer S. Fullerton JT. Trezise L. Fetal movement and fetal outcome in a low-risk population. J Nurse-midwifery, 1981; 26:1, 24-30 | Wrong study design |
| Flenady V. Gardener G. Boyle FM. Callander E. Coory M. East C. Ellwood D. Gordon A. Groom KM. Middleton PF. Norman JE. Warrilow KA. Weller M. Wojcieszek AM. Crowther C. My Baby's Movements: a stepped wedge cluster randomised controlled trial to raise maternal awareness of fetal movements during pregnancy study protocol. BMC Pregnancy Childbirth, 2019; 19:1, 430 | Protocol |
| Flenady V. Gardener G. Ellwood D. Middleton P. Boyle F. Crowther C. Coory M. East C. Callander E. Gordon A. Morris J. Bowring V. Kent A. Vlack S. Teale G. Daly L. Henry S. Reinebrant H. Wojcieszek A. Froen F. Norman J. My Baby's Movements: A stepped-wedge, cluster-randomised controlled trial testing a mobile application intervention aimed at lowering stillbirth rates. BMC Pregnancy Childbirth, 2017; 17 | Abstract only (conference presentation) |
| Flenady V. Gardener G. Middleton P. Crowther C. Ellwood D. Coory M. Wojcieszek A. Mahomed K. Kent A. Callander E. Norman J. Froen F. 'Moving with the times': Raising awareness of decreased fetal movements (DFM) in australia and New Zealand through a stepped-wedge cluster RCT. J Paed Child Health, 2014; 50, 47 | Abstract only (conference presentation) |
| Flenady V. MacPhail J. Gardener G. Chadha Y. Mahomed K. Heazell A. Fretts R. Froen F. Detection and management of decreased fetal movements in Australia and New Zealand: a survey of obstetric practice, Aus NZ J Obstet Gynaecol, 2009; 49:4, 358-363 | Wrong study design |
| Freda MC. Mikhail M. Mazloom E. Polizzotto R. Damus K. Merkatz I. Fetal movement counting: which method? MCN; Am J Maternal Child Nursing, 1993; 18:6, 314-321 | Wrong study design |
| Froen JF. A kick from within--fetal movement counting and the cancelled progress in antenatal care. J Perinatal Med, 2004; 32:1, 13-24 | Wrong study design |

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| Froen JF. Heazell AEP. Tveit JVH. Saastad Eli. Fretts RC. Flenady V. Fetal movement assessment. <i>Seminars Perinatol</i> , 2008; 32:4, 243-246 | Wrong study design |
| Gee ME. Heazell A. Regional survey of information provided to pregnant women regarding reduced fetal movements. <i>BJOG</i> , 2019; 126, 121 | Wrong study design |
| Ghidini A. Newman AM. Cacace M. Han S. Chongasing K. Maternal perception of fetal movements near term: The problem of maternal compliance. <i>Obstet Gynecol</i> , 2018; 131, 171s | Wrong study design |
| Gomez LM. De la Vega G. Padilla L. Bautista F. Villar A. Compliance with a fetal movement chart by high-risk obstetric patients in a Peruvian hospital. <i>Am J Perinatology</i> , 2007; 24, 2, 89-93 | Wrong comparator |
| Grant A. Chalmers I. Randomised trial of fetal movement counting. <i>Lancet</i> , 1982; 2:8296, 501 | Commentary or Letter to Editor |
| Grant A. Elbourne D. Compliance and maternal fetal movement counting. <i>Lancet</i> , 1985; 2:8467, 1304 | Commentary or Letter to Editor |
| Heazell, AEP. Froen JF. Methods of fetal movement counting and the detection of fetal compromise. <i>J Obstet Gynecol</i> , 2008; 28:2, 147-154 | Wrong study design |
| Hillard PA. Fetal movements. <i>Parents</i> , 1984; 59:10, 132-134 | Abstract - Full Text unavailable |
| Kamalifard M. Abbasalizadeh S. Ghojazadeh M. Ghatreh F. Rabiei I. Diagnostic value of fetal movement counting by mother and the optimal recording duration. <i>J Caring Studies</i> , 2013; 2:2, 89-95 | Wrong study design |
| Kantrowitz-Gordon I. Cunningham E. Reynolds N. Measurement of Maternal Mindful Awareness of Fetal Movement. <i>J Mid Women's Health</i> , 2019; 64:5, 604-612. | Wrong study design |
| Koshida S. Ono T. Tsuji S. Murakami T. Arima H. Takahashi K. Fetal movement frequency and the effect of associated perinatal factors: Multicenter study. <i>Women and Birth</i> , 2019; 32:2, 127-130 | Wrong study design |
| Kovar WR. Fetal movements and fetal well-being. <i>Nebraska Med J</i> , 1980; 65:12, 324-325 | Abstract - Full Text unavailable |
| Kuwata T. Matsubara S. Ohkusa T. Ohkuchi A. Izumi A. Watanabe T. Suzuki M. Establishing a reference value for the frequency of fetal movements using modified 'count to 10' method. <i>J Obstet Gynecol Research</i> , 2008; 34:3. 318-323 | Wrong study design |
| Laband S. O'Keefe DF. Fetal movement - its use for fetal assessment. <i>Arizona Med</i> , 1985; 42:6, 365-366 | Abstract - Full Text unavailable |

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| Lai J. Woodward R. Alexandrov Y. Ain Munnee Q. Lees CC. Vaidyanathan R. Nowlan NC. Performance of a wearable acoustic system for fetal movement discrimination. PLOS One, 2018; 13:5, e0195728 | Wrong study design |
| Lema VM. Rogo KO. Mwalali PN. Foetal movements: value in monitoring high-risk pregnancies. East African Med J, 1988; 65:11, 785-792. | Wrong study design |
| Liston RM. Cohen AW. Mennuti MT. Gabbe SG. Antepartum fetal evaluation by maternal perception of fetal movement. Obstet Gynecol, 1982; 60:4, 424-426 | Wrong study design |
| Lobb MO. Beazley JM. Haddad NG. A controlled study of daily fetal movement counts in the prevention of stillbirths. J Obstet Gynecol, 1985; 6:2, 87-91 | Wrong comparator |
| Malm MC. Hildingsson I. Rubertsson C. Radestad, I. Lindgren H. Prenatal attachment and its association with foetal movement during pregnancy - A population based survey. Women and Birth, 2016; 29:6, 482-486 | Wrong study design |
| Malm Mc. Radestad I. Rubertsson C. Hildingsson I. Lindgren H. Women's experiences of two different self-assessment methods for monitoring fetal movements in full-term pregnancy - a crossover trial. BMC Pregnancy Childbirth, 2014; 14, 349. | Wrong comparator |
| Mangesi L. Hofmeyr G.J. Fetal movement counting for assessment of fetal wellbeing. Cochrane Database of Systematic Reviews, 2007; 1:CD004909 | Wrong study design |
| Mangesi L. Hofmeyr GJ. Smith V. Smyth R. Fetal movement counting for assessment of fetal wellbeing. Cochrane Database of Systematic Reviews, 2015; 10:CD004909 | Wrong study design |
| Marnoch A. n evaluation of the importance of formal, maternal fetal movement counting as a measure of fetal well-being. Midwifery, 1992; 8:2, 54-63 | Wrong study design |
| Matsubara S. Matsubara D. Takahashi H. Baba Y. Perceived fetal movement count as a traditional but essential tool for evaluating fetal health: some additions and Japanese obstetricians' and pediatricians' view. J Maternal-Fetal Neonatal Med, 2018; 31:2, 251-252 | Commentary or Letter to Editor |
| McKenzie G. Counting the kicks. AIMS J, 2015; 27:3, 15-16. | Wrong study design |
| Mesbah M. Girier T. East C. Khlif M. O'Toole J. Wilson S. Callan S. Dann S. Boashash B. Colditz P. 3-Axial accelerometer TILT angle for monitoring fetal movements. J Paed Child Health, 2011; 47, 75 | Wrong intervention |
| Modzelewski A. East C. Women's experiences with fetal movements research. J Paed Child Health, 2012; 48, 110 | Wrong study design |
| Moore TR. Piacquadio K. A prospective evaluation of fetal movement screening to reduce the incidence of antepartum fetal death. Am J Obstet Gynecol, 1989; 160: 5 Pt 1, 1075-1080. | Wrong study design |

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| Neldam S. Fetal movements as an indicator of fetal well-being. Danish Med Bulletin, 1986; 33:5, 213-221 | Duplicate |
| Neldam S. [Fetal movements]. Ugeskrift for laeger, 1980; 142:10, 623-626 | Not in English |
| Neldam S. Fetal movements as an indicator of fetal well-being. Danish Med Bulletin, 1983; 30:4, 274-278 | Duplicate |
| Neldam S. Fetal movements as an indicator of fetal wellbeing. Lancet, 1980; 1:8180, 1222-1224 | Wrong outcomes |
| Nishihara K. Eto H. Horiuchi S. Influences of fetal movement on a pregnant woman's sleep: Using fetal movement acceleration measurement recorder. J Sleep Research, 2017; 26, 47 | Wrong study design |
| Nishihara K. Horiuchi S. A new home-monitoring system for fetal movement during pregnant women's sleep. Sleep, 2009; 32, A378-A379 | Wrong study design |
| Nishihara K. Horiuchi S. Weekly variation in foetal movement during pregnant women's sleep monitored with a newly developed home-monitoring system. J Sleep Research, 2010; 19, 360-361 | Wrong study design |
| Pearson JF. Fetal movement recording. Nursing Times, 1979; 75, 1639-1641 | Wrong study design |
| Pearson JF. Fetal movements--a new approach to antenatal care. Nursing Mirror, 1977; 144:16, 49-51 | Wrong study design |
| Radestad I. Akselsson A, Georgsson S. Lindgren H. Pettersson K. Steineck G. Rationale, study protocol and the cluster randomization process in a controlled trial including 40,000 women investigating the effects of mindfetalness. Sexual & Reproductive Healthcare, 2016; 10, 56-61 | Protocol |
| Radestad I. Mindfetalness a method for structured observation on fetal movements. Women & Birth, 2017; 30, 34-35. | Protocol |
| Radestad I. Strengthening mindfetalness. Sexual Reproduct Healthcare, 2012; 3:2, 59-60 | Commentary or Letter to Editor |
| Radivojevic K. Daily fetal movement charting - a simple test for fetal well-being. Geburtshilfe und Frauenheilkunde, 1990; 50:5, 349-352 | Wrong study design |
| Raynes-Greenow CH, Gordon A, Li Q, Hyett JA. A cross-sectional study of maternal perception of fetal movements and antenatal advice in a general pregnant population, using a qualitative framework. BMC Pregnancy Childbirth, 2013; 13, 32 | Wrong study design |
| Ryo E. Kamata H. Seto M. Morita M. Nagaya Y. Nishihara K. Ohki N. Reference values for a fetal movement acceleration measurement recorder to count fetal movements. Paed Research, 2018; 83:5, 961-968 | Wrong study design |
| Sadovsky E. Fetal movements and fetal health. Seminars in Perinatol, 1981, 5:2, 131-143. | Abstract - Full text unavailable |
| Sadovsky E. Polishuk WZ. Yaffe H. Adler D. Pachys F. Mahler Y. Fetal movements recorder, use and indications. International J Gynecol Obstet, 1977; 15:1, 20-24. | Wrong study design |

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| Savin MK. Smith S. Making Kicks Count: Delaware's Consumer and Provider Education Tool to Promote Fetal Movement Tracking, JOGNN, 2012; 41, S20 | Wrong study design |
| Shafi MI. Dover MS. Dyer CA. Byrne P. Constantine G. Luesley DM. Pictorial fetal movement charts in a multiracial antenatal clinic. BMJ, 1989; 298:6689, 1688 | Wrong study design |
| Sjöström K. Thelin T. Marsál K. Valentin L. Effects of maternal anxiety on perception of fetal movements in late pregnancy. Early Human Develop, 2003; 72:2, 111-112 | Wrong study design |
| Smith CV. Davis Sa. Rayburn WF. Patients' acceptance of monitoring fetal movement. A randomized comparison of charting techniques. J Reproductive Med, 1992; 37:2, 144-146 | Wrong comparator |
| Smith V. Begley C. Devane D. Detection and management of decreased fetal movements in Ireland: a national survey of midwives' and obstetricians' practices. Midwifery, 2014; 30:1, 43-49 | Wrong study design |
| Srensen T. Hansen M. Ladehoff P. Fetal movements during pregnancy. Lancet, 1980; 2:8187, 209-2010 | Commentary or Letter to Editor |
| Stevenson SJ. Wojcieszek AM. Boyle F. Vlack S. Ellwood D. Gardener G. Flenady V. My baby's movements: developing mobile phone software to increase maternal awareness of fetal movements. J Paed Child Health, 2016; 52, 17-18 | Wrong study design |
| Thompson S. Wheeler T. Daily fetal movement counting for periods of one hour. J Obstet Gynecol, 1988; 9:1, 33-34 | Wrong study design |
| Thompson SL. Wheeler T. Compliance and maternal fetal movement counting. Lancet, 1985; 2:8464, 1122. | Commentary or Letter to Editor |
| Winje BA. Saastad E. Gunne, N. Tveit JVH. Stray-Pedersen B. Flenady V. FrOen JF Analysis of 'count-to-ten' fetal movement charts: a prospective cohort study. MIDIRS, 2012; 22:1, 114 | Wrong study design |
| Winje BA. Saastad E. Gunnes N. Tveit JVH. Stray-Pedersen B. Flenady V. Froen JF. Analysis of 'count-to-ten' fetal movement charts: a prospective cohort study. BJOG, 2011; 118:10, 1229-1238 | Wrong study design |
| Winje BA. Wojcieszek AM. Gonzalez-Angulo LY. Teoh Z. Norman J. Froen JF. Flenady, V. Interventions to enhance maternal awareness of decreased fetal movement: a systematic review. BJOG, 2016; 123:6, 886-898 | Wrong study design |