

***Prevention of Preterm Birth in Multifetal Gestation***

ACOG Committee Opinion No. 743: Low-Dose Aspirin Use During Pregnancy. *Obstet Gynecol.* 2018 Jul;132(1):e44-e52. doi: 10.1097/AOG.0000000000002708. PMID: 29939940.

ACOG Practice Bulletin No. 202: Gestational Hypertension and Preeclampsia. *Obstet Gynecol.* 2019 Jan;133(1):e1-e25. doi: 10.1097/AOG.0000000000003018. PMID: 30575675.

American College of Obstetricians and Gynecologists Committee on Practice Bulletins-Obstetrics; Society for Maternal-Fetal Medicine; ACOG Joint Editorial Committee. ACOG Practice Bulletin #56: Multiple gestation: complicated twin, triplet, and high-order multifetal pregnancy. *Obstet Gynecol.* 2004 Oct;104(4):869-83. doi: 10.1097/00006250-200410000-00046. PMID: 15458915.

Ananth CV, Joseph KS, Demissie K, Vintzileos AM. Trends in twin preterm birth subtypes in the United States, 1989 through 2000: impact on perinatal mortality. *Am J Obstet Gynecol.* 2005 Sep;193(3 Pt 2):1076-82. doi: 10.1016/j.ajog.2005.06.088. PMID: 16157115.

Berghella V, Odibo AO, To MS, Rust OA, Althuisius SM. Cerclage for short cervix on ultrasonography: meta-analysis of trials using individual patient-level data. *Obstet Gynecol.* 2005 Jul;106(1):181-9. doi: 10.1097/01.AOG.0000168435.17200.53. PMID: 15994635.

Colton T, Kayne HL, Zhang Y, Heeren T. A metaanalysis of home uterine activity monitoring. *Am J Obstet Gynecol.* 1995 Nov;173(5):1499-505. doi: 10.1016/0002-9378(95)90639-8. PMID: 7503191.

Committee on Practice Bulletins—Obstetrics; Society for Maternal–Fetal Medicine. Practice Bulletin No. 169: Multifetal Gestations: Twin, Triplet, and Higher–Order Multifetal Pregnancies. *Obstet Gynecol.* 2016 Oct;128(4):e131-46. doi: 10.1097/AOG.0000000000001709. PMID: 27661652.

Crowther CA, Han S. Hospitalisation and bed rest for multiple pregnancy. *Cochrane Database Syst Rev.* 2010 Jul 7;2010(7):CD000110. doi: 10.1002/14651858.CD000110.pub2. PMID: 20614420; PMCID: PMC7051031.

Garite TJ, Clark RH, Elliott JP, Thorp JA. Twins and triplets: the effect of plurality and growth on neonatal outcome compared with singleton infants. *Am J Obstet Gynecol.* 2004 Sep;191(3):700-7. doi: 10.1016/j.ajog.2004.03.040. Erratum in: *Am J Obstet Gynecol.* 2004 Dec;191(6):2184. PMID: 15467528.

Getahun D, Amre DK, Ananth CV, Demissie K, Rhoads GG. Temporal changes in rates of stillbirth, neonatal and infant mortality among triplet gestations in the United States. *Am J Obstet Gynecol.* 2006 Dec;195(6):1506-11. doi: 10.1016/j.ajog.2006.01.043. Epub 2006 May 4. PMID: 16677587.

Goodnight W, Newman R; Society of Maternal-Fetal Medicine. Optimal nutrition for improved twin pregnancy outcome. *Obstet Gynecol.* 2009 Nov;114(5):1121-34. doi: 10.1097/AOG.0b013e3181bb14c8. PMID: 20168116.

Goya M, de la Calle M, Pratcorona L, Merced C, Rodó C, et al; PECEP-Twins Trial Group. Cervical pessary to prevent preterm birth in women with twin gestation and sonographic short cervix: a multicenter randomized controlled trial (PECEP-Twins). *Am J Obstet Gynecol.* 2016 Feb;214(2):145-152. doi: 10.1016/j.ajog.2015.11.012. Epub 2015 Nov 25. PMID: 26627728.

Heath VC, Southall TR, Souka AP, Elisseou A, Nicolaides KH. Cervical length at 23 weeks of gestation: prediction of spontaneous preterm delivery. *Ultrasound Obstet Gynecol.* 1998 Nov;12(5):312-7. doi: 10.1046/j.1469-0705.1998.12050312.x. PMID: 9819868.

Iams JD, Romero R, Culhane JF, Goldenberg RL. Primary, secondary, and tertiary interventions to reduce the morbidity and mortality of preterm birth. *Lancet.* 2008 Jan 12;371(9607):164-75. doi: 10.1016/S0140-6736(08)60108-7. PMID: 18191687.

Liem S, Schuit E, Hegeman M, Bais J, de Boer K, et al. Cervical pessaries for prevention of preterm birth in women with a multiple pregnancy (ProTWIN): a multicentre, open-label randomised controlled trial. *Lancet.* 2013 Oct 19;382(9901):1341-9. doi: 10.1016/S0140-6736(13)61408-7. Epub 2013 Aug 5. PMID: 23924878.

Luke B, Brown MB, Misiunas R, Anderson E, Nugent C, van de Ven C, Burpee B, Gogliotti S. Specialized prenatal care and maternal and infant outcomes in twin pregnancy. *Am J Obstet Gynecol.* 2003 Oct;189(4):934-8. doi: 10.1067/s0002-9378(03)01054-8. PMID: 14586329.

Martin JA, Hamilton BE, Osterman MJK, Driscoll AK, Drake P. Births: Final Data for 2017. *Natl Vital Stat Rep.* 2018 Nov;67(8):1-50. PMID: 30707672.

Nicolaides KH, Syngelaki A, Poon LC, de Paco Matallana C, Plasencia W, et al. Cervical pessary placement for prevention of preterm birth in unselected twin pregnancies: a randomized controlled trial. *Am J Obstet Gynecol.* 2016 Jan;214(1):3.e1-9. doi: 10.1016/j.ajog.2015.08.051. Epub 2015 Aug 28. PMID: 26321037.

Roman AS, Saltzman DH, Fox N, Klauser CK, Istwan N, et al. Prophylactic cerclage in the management of twin pregnancies. *Am J Perinatol.* 2013 Oct;30(9):751-4. doi: 10.1055/s-0032-1332796. Epub 2013 Jan 9. PMID: 23303484.

Rebarber A, Roman AS, Istwan N, Rhea D, Stanziano G. Prophylactic cerclage in the management of triplet pregnancies. *Am J Obstet Gynecol.* 2005 Sep;193(3 Pt 2):1193-6. doi: 10.1016/j.ajog.2005.05.076. PMID: 16157136.

Romero R, Nicolaides K, Conde-Agudelo A, Tabor A, O'Brien JM, et al. Vaginal progesterone in women with an asymptomatic sonographic short cervix in the midtrimester decreases preterm delivery and neonatal morbidity: a systematic review and metaanalysis of individual patient data. *Am J Obstet Gynecol.* 2012 Feb;206(2):124.e1-19. doi: 10.1016/j.ajog.2011.12.003. Epub 2011 Dec 11. PMID: 22284156; PMCID: PMC3437773.

Saccone G, Rust O, Althuisius S, Roman A, Berghella V. Cerclage for short cervix in twin pregnancies: systematic review and meta-analysis of randomized trials using individual patient-level data. *Acta Obstet Gynecol Scand.* 2015 Apr;94(4):352-8. doi: 10.1111/aogs.12600. Epub 2015 Mar 1. PMID: 25644964.

Society for Maternal-Fetal Medicine Publications Committee, with assistance of Vincenzo Berghella. Progesterone and preterm birth prevention: translating clinical trials data into clinical practice. *Am J Obstet Gynecol.* 2012 May;206(5):376-86. doi: 10.1016/j.ajog.2012.03.010. Erratum in: *Am J Obstet Gynecol.* 2013 Jan;208(1):86. PMID: 22542113.

To MS, Skentou C, Cicero S, Liao AW, Nicolaides KH. Cervical length at 23 weeks in triplets: prediction of spontaneous preterm delivery. *Ultrasound Obstet Gynecol.* 2000 Nov;16(6):515-8. doi: 10.1046/j.1469-0705.2000.00293.x. PMID: 11169343.



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To MS, Fonseca EB, Molina FS, Cacho AM, Nicolaidis KH. Maternal characteristics and cervical length in the prediction of spontaneous early preterm delivery in twins. *Am J Obstet Gynecol.* 2006 May;194(5):1360-5. doi: 10.1016/j.ajog.2005.11.001. Epub 2006 Apr 21. PMID: 16647922.

Yamasmit W, Chaithongwongwatthana S, Tolosa JE, Limpongsanurak S, Pereira L, Lumbiganon P. Prophylactic oral betamimetics for reducing preterm birth in women with a twin pregnancy. *Cochrane Database Syst Rev.* 2005 Jul 20;(3):CD004733. doi: 10.1002/14651858.CD004733.pub2. Update in: *Cochrane Database Syst Rev.* 2012;9:CD004733. PMID: 16034944.