

EDUCATIONAL RESOURCES

Cervical dilation with the Cook® Cervical Ripening Balloon

Practice guidelines

- National Institute for Health and Care Excellence. Insertion of a double balloon catheter for induction of labour in pregnant women without previous caesarean section: interventional procedures guidance [IPG528]. NICE Web site. <https://www.nice.org.uk/guidance/ipg528>. Published July 23, 2015. Accessed September 30, 2020.
- Society of Maternal-Fetal Medicine (SMFM) Publications Committee. SMFM statement on elective induction of labor in low-risk nulliparous women at term: the ARRIVE trial. *Am J Obstet Gynecol*. 2019;221(1):B2-B4.
- World Health Organization. WHO recommendations: induction of labour at or beyond term. WHO Web site. <https://apps.who.int/iris/bitstream/handle/10665/277233/9789241550413-eng.pdf>. Published 2018. Accessed December 2, 2020.

Meta-analyses

- Alfirevic Z, Keeney E, Dowswell T, et al. Methods to induce labour: a systematic review, network meta-analysis and cost-effectiveness analysis. *BJOG*. 2016;123(9):1462-1470.
- Du YM, Zhu LY, Cui LN, et al. Double-balloon catheter versus prostaglandin E2 for cervical ripening and labour induction: a systematic review and meta-analysis of randomised controlled trials. *BJOG*. 2017;124(6):891-899.
- Lajusticia H, Martinez-Dominguez SJ, Perez-Roncero GR, et al. Single versus double-balloon catheters for the induction of labor of singleton pregnancies: a meta-analysis of randomized and quasi-randomized controlled trials. *Arch Gynecol Obstet*. 2018;297(5):1089-1100.
- Liu X, Wang Y, Zhang F, et al. Double- versus single-balloon catheters for labour induction and cervical ripening: a meta-analysis. *BMC Pregnancy Childbirth*. 2019;19(1):358.
- Liu YR, Pu CX, Wang XY, et al. Double-balloon catheter versus dinoprostone insert for labour induction: a meta-analysis. *Arch Gynecol Obstet*. 2019;299(1):7-12.
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- Yang F, Huang S, Long Y et al. Double-balloon versus single-balloon catheter for cervical ripening and labor induction: A systematic review and meta-analysis. *J Obstet Gynaecol Res*. 2018;44(1):27-34.

Efficacy

- Brown J, Beckmann M. Induction of labour using balloon catheter and prostaglandin gel. *Aust N Z J Obstet Gynaecol*. 2017;57(1):68-73.
- Cromi A, Ghezzi F, Uccella S, et al. A randomized trial of preinduction cervical ripening: dinoprostone vaginal insert versus double-balloon catheter. *Am J Obstet Gynecol*. 2012;207(2):125.e1-125.e7.
- Kosec V, Djakovic I, Sabolović Rudman S. Cervical ripening balloon as a method of preinduction - one center study. *Acta Clin Croat*. 2018;57(4):762-767.
- Suffecool K, Rosenn BM, Kam S, et al. Labor induction in nulliparous women with an unfavorable cervix: double balloon catheter versus dinoprostone. *J Perinat Med*. 2014;42(2):213-218.
- Wang L, Wang G, Cao W. et al. Comparison of the Cook vaginal cervical ripening balloon with prostaglandin E2 insert for induction of labor in late pregnancy. *Arch Gynecol Obstet*. 2020;302(3):579-584.

Bishop score

- Hoppe KK, Schiff MA, Peterson SE, et al. 30 mL single- versus 80 mL double-balloon catheter for pre-induction cervical ripening: a randomized controlled trial. *J Matern Fetal Neonatal Med*. 2016;29(12):1919-1925.

- Solt I, Frank Wolf M, Ben-Haroush S, et al. Foley catheter versus cervical double balloon for labor induction: a prospective randomized study [published online ahead of print June 11, 2019]. *J Matern Fetal Neonatal Med.* 2019:1-8.

Pain score and patient satisfaction

- Lim SEL, Tan TL, Ng GYH, et al. Patient satisfaction with the cervical ripening balloon as a method for induction of labour: a randomised controlled trial. *Singapore Med J.* 2018;59(8):419-424.

Times of insertion and delivery

- Brown J, Beckman M. Induction of labour using balloon catheter and prostaglandin gel. *Aust N Z J Obstet Gynaecol.* 2017;57(1):68-73.

Uterine hyperstimulation

- Alfirevic Z, Keeney E, Dowswell T, et al. Methods to induce labour: a systematic review, network meta-analysis and cost-effectiveness analysis. *BJOG.* 2016;123(9):1462-1470.
- Cromi A, Ghezzi F, Uccella S, et al. A randomized trial of preinduction cervical ripening: dinoprostone vaginal insert versus double-balloon catheter. *Am J Obstet Gynecol.* 2012;207(2):125.e1-125.e7.
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- Wang W, Zheng J, Fu J, et al. Which is the safer method of labor induction for oligohydramnios women? Transcervical double balloon catheter or dinoprostone vaginal insert. *J Matern Fetal Neonatal Med.* 2014;27(17):1805-1808.

Cost-effectiveness

- Du YM, Zhu LY, Cui LN, et al. Double-balloon catheter versus prostaglandin E2 for cervical ripening and labour induction: a systematic review and meta-analysis of randomised controlled trials. *BJOG.* 2017;124(6):891-899.
- Grobman WA, Sandoval G, Reddy UM, et al. Health resource utilization of labor induction versus expectant management. *Am J Obstet Gynecol.* 2020;222(4):369.e1-369.e11.

Induction of labor at 39 weeks vs. expectant management*

- Grobman WA, Caughey AB. Elective induction of labor at 39 weeks compared with expectant management: a meta-analysis of cohort studies. *Am J Obstet Gynecol.* 2019;221(4):304-310.
- Grobman WA, Rice MM, Reddy UM, et al. Labor induction versus expectant management in low-risk nulliparous women. *N Engl J Med.* 2018;379:513-523.
- Grobman WA, Sandoval G, Reddy UM, et al. Health resource utilization of labor induction versus expectant management. *Am J Obstet Gynecol.* 2020;222(4):369.e1-369.e11.
- Sotiriadis A, Petousis S, Thilaganathan B, et al. Maternal and perinatal outcomes after elective induction of labor at 39 weeks in uncomplicated singleton pregnancy: a meta-analysis. *Ultrasound Obstet Gynecol.* 2019;53(1):26-35.

*Not specific to the Cook Cervical Ripening Balloon.