IN THIS ARTICLE

The case for outpatient cervical ripening for IOL at term for low-risk pregnancies

These authors, who share their protocols, have been performing outpatient cervical ripening at their institutions for several years. Should outpatient ripening be the standard of care for low-risk pregnancies?

Robyn Lamar, MD, MPH; Biftu Mengesha, MD, MAS; and Sarah Little, MD, MPH

CASE 1 Induction at 39 weeks in a healthy nulliparous woman

A healthy 35-year-old woman (G1P0) at 39 weeks 0 days and with an uncomplicated pregnancy presents to your office for a routine prenatal visit. She inquires about scheduling an induction of labor, noting that she read a news story about induction at 39 weeks and that it might lower her chance of having a cesarean delivery (CD).

You perform a cervical exam—she is 1 cm dilated, 3 cm long, -2 station, posterior, and firm. You sweep her membranes after obtaining verbal consent. After describing the induction process, you explain that she might be hospitalized for several days before the birth given the need for cervical ripening. “You mean I need to stay in the hospital for the entire process?” she asks incredulously.

Over the past 20 years, the percentage of patients undergoing induction of labor (IOL) has increased from 10% to 25%.1 This percentage likely will rise over time, particularly in the wake of a recent randomized controlled trial suggesting potential maternal benefits, such as reduced CD rate, for nulliparas induced at 39 weeks compared with expectant management.2 Although there have not been any changes to guidelines for timing of IOL from such professional societies such as the American College of Obstetricians and Gynecologists (ACOG) or the Society for Maternal-Fetal Medicine, key considerations of rising IOL volume include patient experience, labor and delivery (L&D) units’ capacity and resources, and associated health care costs.

An essential part of successful induction involves patience. Induction can be a lengthy process, particularly for nulliparas with unripe cervices. Cervical ripening is a necessary component of successful labor induction, whether achieved mechanically or pharmaceutically with synthetic prostaglandins, and it has been shown to lower the chance of CD.3,4 However, achieving a ripe cervix is often the lengthiest part of an induction, and not uncommonly consumes 12 to 24 hours or more of inpatient time. Investigators have sought ways to make this process

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The authors report no financial relationships relevant to this article.
Mechanical cervical ripening prior to induction of labor at term in low-risk pregnancies is performed on an inpatient and outpatient basis in many hospitals across the United States. Cervical ripening also can be achieved in low-risk patients through pharmacologic methods.

Complication rates are low for inpatient mechanical cervical ripening; complication rates for outpatient ripening are low as well, although data are limited.

More expeditious. For example, the FORMOMI trial demonstrated that the induction-to-delivery time was several hours shorter when cervical ripening combined mechanical and pharmacologic approaches (Foley balloon plus misoprostol), compared with either method alone, without any increase in maternal or fetal complication rates.5

Better yet, what if admission to the L&D unit for IOL at term could be deferred until the cervix is ripe? A number of hospitals in the United States have successfully introduced outpatient cervical ripening, and several small observational and randomized controlled trials have reported good results in terms of safety, efficacy and time saved, and patient experience. Here, we will make the case that outpatient cervical ripening should be the standard of care for low-risk pregnancies.

Mechanical cervical ripening Safety

Although data are limited on the safety, the authors of an ACOG Practice Bulletin suggest that, based on the available evidence of mechanical ripening in an inpatient setting, it is also appropriate in the outpatient setting.6

Unlike cervical ripening using prostaglandins, mechanical ripening is not associated with tachysystole, fetal intolerance of labor, or meconium staining.3 A cohort study of nearly 2,000 low-risk patients who underwent Foley catheter placement for cervical ripening using an outpatient protocol but monitored overnight as inpatients and evaluated for adverse outcomes found no CD for fetal distress, vaginal bleeding, placental abruption, or intrapartum stillbirth.7 The authors posited that, given this safety profile in the inpatient setting, that mechanical cervical ripening with a Foley catheter would be appropriate for outpatient use in low-risk populations. Other systematic reviews have been reassuring as well, with exceedingly low complication rates during inpatient mechanical cervical ripening.8 These data advocate for the evaluation of cervical ripening in the outpatient setting.

The evidence for outpatient mechanical ripening, although again limited, also has
Small trials of outpatient vs inpatient Foley catheter ripening have shown decreased length of stay and similar or less oxytocin use for the outpatient groups, as well as similar Bishop scores after cervical ripening and no difference in maternal or fetal outcomes.9-12

Efficacy also generally has been shown to be similar when mechanical methods are used in the inpatient and outpatient settings. Small randomized trials of outpatient versus inpatient Foley catheter ripening have shown decreased length of stay (by 10 to 13 hours) and similar or less oxytocin use in the outpatient groups, as well as similar Bishop scores after cervical ripening and no difference in maternal or fetal outcomes.9,11,13,14

One major concern with increasing IOL prevalence is the availability of hospital resources and the associated health care costs, given the known increased length of inpatient stay due to cervical ripening time. Admission to an L&D unit is resource intensive; the costs are similar to admission to an intensive care unit in many hospitals given its level of acuity and high nurse/patient ratio. However, given the safety of outpatient mechanical cervical ripening described above, we argue that routinely admitting low-risk patients for mechanical ripening constitutes a suboptimal use of costly resources.

Indeed, data suggest significant inpatient time savings if cervical ripening can be accomplished prior to admission. A cost-effectiveness analysis in the Netherlands demonstrated a nearly 1,000-euro decrease in cost per induction when Foley catheter induction was done on an outpatient basis.15 Interestingly, a recent trial confined to multiparas found no differences in hospital time when comparing outpatient ripening with Foley balloon alone with inpatient ripening with Foley balloon plus simultaneous oxytocin.16 This certainly merits further study, but it may be that the largest time- and cost-savings are among nulliparas.

Our approach to mechanical cervical ripening

Most patients undergoing scheduled IOL are reasonable candidates for outpatient cervical ripening based on safety and efficacy. By definition, scheduling in advance implies that the provider has determined that outpatient management is reasonable until that date, and the plan for outpatient ripening need not prolong this period.

FIGURES 1 (page 44) and 2 (page 46) show protocols for our 2 hospital centers, which regularly allow for outpatient mechanical cervical ripening. Outpatient cervical ripening may provide patients with the benefits of being in the comfort of their own homes with their preferred support persons, increased mobility, more bodily autonomy, and satisfaction with their birthing process.

In a pilot trial involving 48 women, inpatient was compared with outpatient cervical ripening using a Foley balloon. Those in the outpatient group reported getting more rest, feeling less isolated, and having enough privacy. However, participants in both groups were equally satisfied and equally likely to recommend their method of induction to others.11 Another study comparing outpatient versus inpatient Foley balloon cervical ripening found that 85% of patients who underwent outpatient ripening were satisfied with the induction method; however, no query or comparison was done with the inpatient group.13 A trial comparing outpatient mechanical cervical ripening with inpatient misoprostol found that outpatient participants reported several hours more sleep and less pain.18 And in a discrete choice experiment of British gravidas, participants favored the option of outpatient cervical ripening, even if it meant an extra 1.4 trips to the hospital and over an hour of extra travel time.17

While these preliminary findings provide some insight that patients may prefer an outpatient approach to cervical ripening, more studies are needed to fully evaluate patient desires.

Patient preferences

Relatively few studies specifically have addressed patient experiences with outpatient versus inpatient mechanical cervical ripening. Outpatient cervical ripening may provide patients with the benefits of being in the comfort of their own homes with their preferred support persons, increased mobility, more bodily autonomy, and satisfaction with their birthing process.

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**FAST TRACK**

Ideal candidates for outpatient mechanical cervical ripening include patients undergoing elective or routine prolonged gestation inductions or inductions for well-controlled, stable chronic hypertension or gestational diabetes.

Cervical ripening. In the process of protocol development, we identified absolute and relative contraindications to determine appropriate candidates. We exclude women who require inpatient management of medical or obstetric conditions (for example, women with severe preeclampsia or any condition requiring continuous fetal monitoring). We also do not routinely recommend outpatient cervical ripening to patients who do not have the necessary social conditions to make this process as safe as possible (including stable housing, reliable transportation, and a support person), although this occurs with some exceptions depending on individual patient situations.

Some examples of ideal candidates for outpatient mechanical cervical ripening include those undergoing elective or routine prolonged gestation inductions, or inductions for well-controlled, stable conditions (chronic hypertension and gestational diabetes). At one center, after thorough counseling and assessment, outpatient cervical ripening is also offered to patients with mild risk factors, including twins, prior low transverse CD, stable preeclampsia without severe features, isolated oligohydramnios with otherwise reassuring fetal status, and other similar conditions.

After mechanical cervical ripening placement (either Foley catheter or mechanical dilators), the clinician completes a post-procedure safety checklist and detailed procedure documentation, including number and type of foreign bodies placed. If there

**CONTINUED ON PAGE 45**

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**FIGURE 1** Hospital 1 outpatient mechanical cervical ripening protocol

<table>
<thead>
<tr>
<th>Patient determined to be appropriate candidate for outpatient Foley catheter placement by clinician. Patient provides informed consent.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procedure scheduled in outpatient clinic 1 day prior to scheduled induction of labor.</td>
</tr>
<tr>
<td>Clinician determines whether Foley bulb or Dilapan-S will be placed for mechanical cervical ripening.</td>
</tr>
<tr>
<td>Preprocedure Doppler is performed, Leopold’s or ultrasound for fetal presentation done if indicated (if not done within the past week).</td>
</tr>
<tr>
<td>If any abnormalities, the patient is not a candidate for outpatient mechanical ripening.</td>
</tr>
<tr>
<td>If Foley bulb: Placed either digitally or visually, filled with 30–60 mL of normal saline, clamped at end, and NOT placed on tension.</td>
</tr>
<tr>
<td>Postprocedure fetal heart Doppler is performed. If reassuring and patient stable, postprocedure and return precautions reviewed.</td>
</tr>
<tr>
<td>If Dilapan-S (^*) is placed visually after cleansing cervix with Betadine, as many Dilapan-S the cervix can accommodate are placed (generally about 5).</td>
</tr>
<tr>
<td>Patients who have any maternal or fetal reason for prolonged observation after placement are sent to Labor and Delivery unit.</td>
</tr>
</tbody>
</table>

\(^*\)Placed as detailed in the manufacturer’s instructions.
are any concerns regarding maternal or fetal well-being, the patient is sent to L&D for evaluation. If the procedure was tolerated well, the patient is discharged home, after a reactive postprocedure nonstress test is done, with detailed instructions for self-care, as well as with a list of symptoms that warrant prompt evaluation prior to scheduled induction time. In a large California hospital group following a similar protocol, only about 5% of women presented in labor before their scheduled induction.18

**CASE 2 Cervical ripening for labor preparation in low-risk pregnancy**

A 32-year-old woman (G1P0) with an uncomplicated pregnancy at 40 weeks and 3 days presents to your office for a routine prenatal visit. Her vital signs are normal, and her fetus is vertex with an estimated fetal weight of 7.5 lb by Leopald’s maneuvers. You perform a cervical exam and find that her cervix is closed, long, and posterior.

You discuss with her your recommendation for induction of labor by 41 weeks, and she agrees. You also discuss the need for cervical ripening and recommend misoprostol given her closed cervix. You explain that several doses may be needed to get her cervix ready for labor, and she asks, “Do I have to stay in the hospital that whole time?”

**Pharmacologic cervical ripening**

**Efficacy**

There are multiple pharmacologic agents that can be used for ripening an unfavorable cervix. The main agents used in the United States are prostaglandins, either PGE1 (oral or vaginal misoprostol) or PGE2 in a gel or sustained-release vaginal insert (dinoprostone).

**Outpatient misoprostol to avoid labor induction.** Many studies have looked at outpatient misoprostol use as a “prophylactic measure” (to prevent the need for labor induction). For example, Gaffaney and colleagues showed that administering outpatient oral misoprostol (100 µg every 24 hours for up to 3 doses) after 40 weeks’ gestation to women with an unfavorable cervix significantly decreased the time to delivery by a day and a half.19 Similarly, PonMalar and colleagues demonstrated that administering 25 µg of vaginal misoprostol in a single dose as an outpatient after stripping the membranes significantly reduced time to delivery by 2 days.20 And Stitely and colleagues found a significant reduction in the need for labor induction with the use of outpatient vaginal misoprostol. They administered up to 2 doses of misoprostol 25 µg vaginally every 24 hours for the 48 hours prior to a scheduled postdates induction and found a large reduction in the need for labor induction (11% vs 85%;  \( P < .01 \)).21

Multiple protocols and regimens have been studied but, overall, the findings suggest that administering outpatient misoprostol may shorten the time interval to spontaneous labor and decrease the need for a formal labor induction.19-23

**Inpatient compared with outpatient prostaglandin use.** These trials of “prophylactic” misoprostol generally have compared outpatient administration of misoprostol with placebo. Prostaglandins are one of the most common methods of inpatient cervical ripening, so what about comparisons of inpatient cervical ripening with outpatient prostaglandin administration? There are a handful of studies that make this comparison.

Chang and colleagues looked retrospectively at inpatient and outpatient misoprostol and found that outpatient administration saved 3 to 5 hours on labor and delivery.24 Biem and colleagues randomly assigned women to either inpatient cervical ripening with PGE2 intravaginal inserts or 1 hour of inpatient monitoring after PGE2 administration and then outpatient discharge until the onset of labor or for a nonstress test at 12 hours. They found that those who underwent outpatient ripening spent 8 hours less on labor and delivery and were more highly satisfied with the initial 12 hours of labor induction experience (56% vs 39%;  \( P < .01 \)).25

The largest randomized controlled trial conducted to study outpatient prostaglandin...
use was the OPRA study (involving 827 women). Investigators compared inpatient to outpatient PGE2 intravaginal gel. The primary outcome was total oxytocin administration, which was not different between groups. The study was underpowered, however, as 50% of women labored spontaneously post-randomization. But in the outpatient arm,

### Absolute contraindications

- Any contraindication to vaginal delivery
- Nonreactive nonstress test
- Biophysical profile score ≤6
- High-risk, uncontrolled medical or obstetric conditions (eg, preeclampsia with severe features)
- Known or suspected placental abruption or active vaginal bleeding
- Preterm gestation
- Rupture of membranes
- Fetal growth restriction
- Fluid disorders (oligohydramnios or polyhydramnios)
- Fetal anomalies requiring immediate and aggressive resuscitation
- Patient unable to verbalize understanding of care plan or instructions for self-care

### Relative contraindications*

- Unreliable patient phone access
- Unreliable patient transportation
- Patient who has demonstrated difficulty attending prenatal appointments
- Previous uterine scar (eg, previous cesarean delivery)
- Intrahepatic cholestasis of pregnancy
- Bishop score ≥6

*After thorough counseling and/or development of contingency plans for conditions listed, patients who meet these criteria may be appropriate candidates for outpatient mechanical cervical ripening as deemed by the clinician.

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**FIGURE 2** Hospital 2 outpatient mechanical cervical ripening protocol

<table>
<thead>
<tr>
<th>Absolute contraindications</th>
<th>Relative contraindications*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient determined to be appropriate candidate for outpatient Foley catheter placement by clinician. Patient provides informed consent.</td>
<td>Procedure scheduled in outpatient clinic one day prior to scheduled induction of labor.</td>
</tr>
<tr>
<td>After reactive NST, Foley bulb is placed digitally or visually through uterine cervix and filled with 30–60 mL of normal saline.</td>
<td>Preprocedure nonstress test (NST) is performed, ultrasound for fetal presentation and Bishop score determined.</td>
</tr>
<tr>
<td>Catheter end is then clamped with umbilical cord clamp or knotted tightly and placed on gentle traction.</td>
<td>If NST is not reactive or if there is fetal malpresentation, patient is not a candidate for outpatient Foley placement.</td>
</tr>
<tr>
<td>Postprocedure NST is performed. If reactive and patient stable, postprocedure and return precautions reviewed.</td>
<td>Patients who experience amniotomy during placement, increased vaginal bleeding, nonreactive NST, or any reason for prolonged observation, patient is sent to Labor &amp; Delivery unit.</td>
</tr>
</tbody>
</table>
less than half of the women required additional inpatient ripening, and nearly 40% returned in spontaneous labor, suggesting that outpatient prostaglandin administration may indeed save women a significant amount of time on labor and delivery.

Safety
The safety of outpatient administration of prostaglandins is the biggest concern, especially since, when prostaglandins are compared to outpatient Foley catheter use, Foleys are overall associated with less tachysystole, fetal intolerance, and meconium-stained fluid. Foley catheter use for cervical ripening may not be an appropriate choice for all patients, however. For instance, our case patient has a closed cervix, which could make Foley insertion uncomfortable or even impossible. Misoprostol use also offers the potential for flexibility in cervical ripening protocols as patients need not return for Foley balloon removal and indeed labor induction need not take place immediately after administration of misoprostol.

Patients also may prefer outpatient cervical ripening with misoprostol over a Foley. There are some data to suggest that women, overall, have a preference toward prostaglandins; in the PROBAAT-II trial, which compared inpatient oral misoprostol to Foley catheter for cervical ripening, 12% of women in the Foley arm would have preferred another method of induction (vs 6% in the misoprostol arm; \( P = .02 \)). This preference may be magnified in an outpatient setting.

But, again, is outpatient administration of prostaglandins safe? The published trials thus far have not reported an increase in out-of-hospital deliveries or adverse fetal outcomes. However, studies have been of limited size to see more rare outcomes. Unfortunately, an adequately powered study to demonstrate safety is likely never to be accomplished, given that if used responsibly (in low-risk patients with adequate monitoring after administration) the incidence of adverse fetal outcomes during the at-home portion of cervical ripening is likely to be very low. With responsible use, outpatient administration of prostaglandins should be safe. Women are monitored after misoprostol administration and are not sent home if there are any concerns for fetal distress or if frequent contractions continue. Misoprostol reaches maximum blood concentration 30 minutes after oral administration and

**FIGURE 3** Example outpatient misoprostol protocol

<table>
<thead>
<tr>
<th>Low-risk singletons 39+0 to 40+6 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient presents to L&amp;D triage or the outpatient antenatal unit</td>
</tr>
<tr>
<td>Obstetric provider sees patient, exams cervix, documents vertex, orders misoprostol (and terbutaline as needed) and stays in the hospital for the entire time</td>
</tr>
<tr>
<td>Nonstress test is obtained to document reactivity and contractions</td>
</tr>
<tr>
<td>50 µg of oral misoprostol administered if nonstress test appropriate</td>
</tr>
<tr>
<td>Patient monitored for 1 hour post-misoprostol administration</td>
</tr>
<tr>
<td>Patient sent home if appropriate with routine labor precautions</td>
</tr>
<tr>
<td>Patient returns if in labor or for next scheduled appointment (for further outpatient or inpatient induction)</td>
</tr>
</tbody>
</table>
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70 to 80 minutes after vaginal administration. After this time, if contractions start to intensify it is likely that misoprostol has triggered spontaneous labor. In this setting, women are routinely allowed to spontaneously labor at home. One may even argue that outpatient misoprostol could lead to improved safety, as women essentially have a contraction stress test prior to spontaneous labor, and misoprostol administration as an outpatient, as opposed to as an inpatient, may allow for longer time intervals between doses, which could prevent dose stacking.

Our approach to pharmacologic cervical ripening

Our hospital has been conducting outpatient cervical ripening using vaginal misoprostol for more than 15 years without any known adverse safety concerns (FIGURE 3, page 47). Women with a low-risk, singleton pregnancy between 39+0 and 40+6 weeks are potential candidates for outpatient ripening. The majority of outpatient inductions are done electively without any medical indication. Women with stable, minor risk factors (such as diet-controlled gestational diabetes) also may be candidates at their clinician’s discretion. Patients are monitored either in our L&D triage area or in our outpatient antenatal unit; both units are in the same building. One clinician offers outpatient misoprostol in the office, across the street from L&D. We allow for clinician flexibility after administration. Some clinicians do 1 or 2 doses of outpatient cervical ripening in a day prior to a scheduled inpatient induction the next day. Some do multiple daily doses over the course of a week.

Conclusion

While the data continue to be limited, we strongly believe there is sufficient quality evidence from a safety and efficacy perspective to support implementation and evaluation of outpatient cervical ripening protocols for low-risk pregnancies. In the setting of renewed commitments to reducing suboptimal health care costs and utilization as well as increasing patient satisfaction and control in their birthing experiences, we posit it is the responsibility of obstetricians, L&D leadership, and health care institutions to explore the implementation of outpatient cervical ripening for appropriate candidates in their settings.

References


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