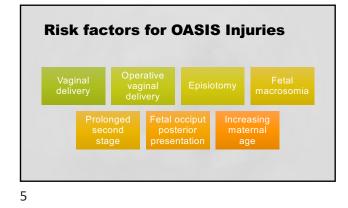


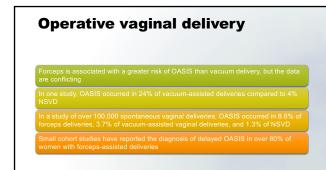
## **Learning Objectives**

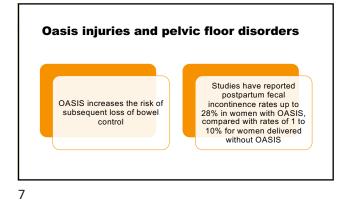
1) Identify the incidence of OASIS tears and the association of OASIS and pelvic floor disorders 2) Understand postpartum pelvic floor complications in the immediate postpartum period 3) Understand management of postpartum pelvic floor complications

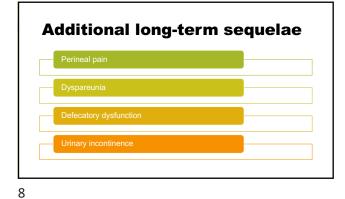


f OASIS in the first ry: 5.7%
n parous women with evious OASIS: 1.5%

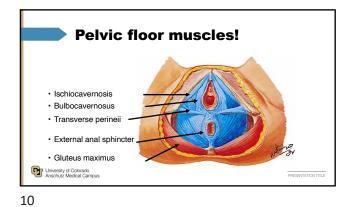


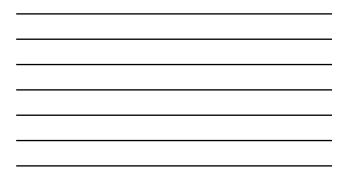


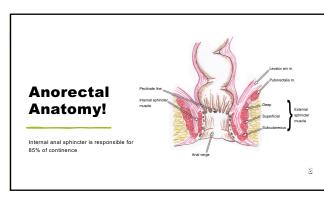


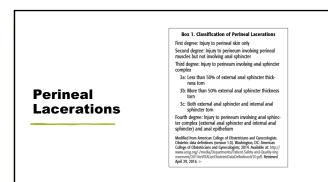


Prognosis For women with primary OASIS, the risk of repeat OASIS in a future vaginal delivery is approximately 3 to 5%









#### First degree laceration

Laceration of the vaginal epithelium or perineal skin only

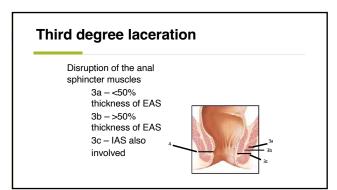


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Second degree laceration

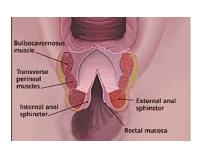
Laceration of the perineal muscles, but not the anal sphincter complex





Fourth degree laceration

Disruption of the anal sphincter complex with involvement of the anal epithelium

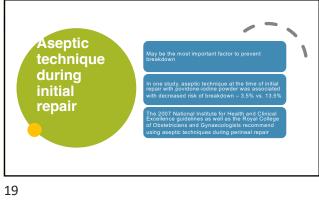


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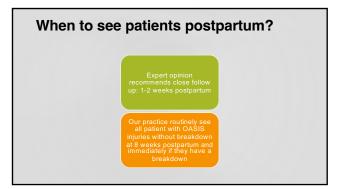


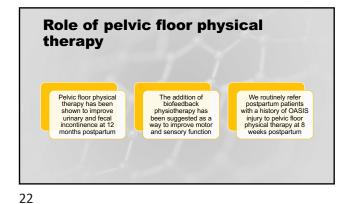




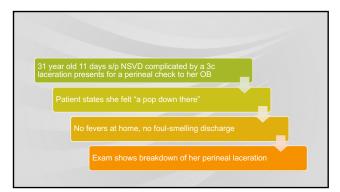




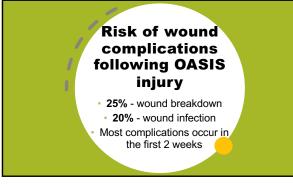












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## Risks factors for perineal laceration breakdowns

Infection is the biggest risk factor

Hematoma (usually occurs within 24 hours of delivery)

Operative vaginal delivery

Sexual activity

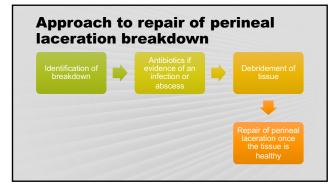
## Symptoms requiring evaluation

Severe pain

Foul smelling discharge

Fecal incontinence

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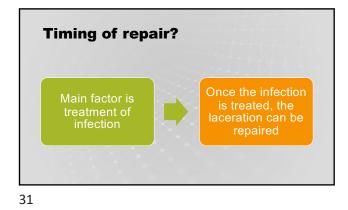
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· ACOG does not give specific recommendations

ACUG does not give specific recommendations From Pearls of Exxcellence: "Controversy exists regarding immediate versus delayed repair of all perineal breakdown...Conventional practice has been to delay repair for two to three months to ensure complete lissue recovery prior to attempted repair and allow for possible spontaneous healing. Delayed repair is challenging for patients who often suffer from anal incontinence, inability to resume sexual activity, and pain...Once all signs of infection had completely resolved, a repair was performed. In these series, perineal repair was attempted as early as 7 to 10 days following delivery. There is currently insufficient evidence to provide a definitive recommendation for early or delayed repair for perineal wound dehiscence." Many schrides inte 1900e sobwed emiliar outcomes of advar repairs of the anal exhincter Many studies in the 1990s showed similar outcomes of early repairs of the anal sphincter complex after laceration breakdown versus the traditional 3-4 month delayed repair

One study performed between 2013 and 2018 showed successful early repair of anal sphincter laceration breakdown versus delayed repair





3c breakdown 6 weeks postpartum

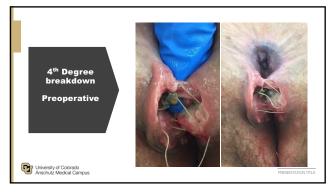
Preoperative





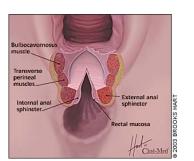






#### Fourth Degree Laceration Repair

 Rectal Mucosa
Reapproximate anal mucosa with 4-0 vicryl interrupted or running suture
Place first suture 1cm above apex



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#### Internal Anal Sphincter

The IAS is the rubbery layer overlying the rectal mucosa Repair with interrupted sutures Use delayed absorbable suture material (2-0 PDS)

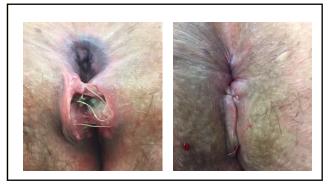


## External Anal Sphincter

Repair EAS with interrupted sutures (PISA) No clear data on suture type Vicryl PDS/Delayed absorbable



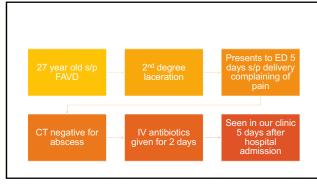
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Preoperative – Internal anal sphincter



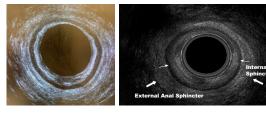
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Preoperative – External Anal Sphincter

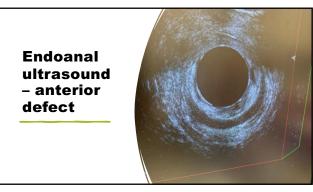




 Useful in diagnosing internal and external anal sphincter defects
May be useful immediately postpartum or for undiagnosed injuries later in life



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# Endoanal ultrasound – should we perform on all patients?

 In a randomized controlled trial, women with lacerations were allocated to either clinical examination and laceration repair or endoanal ultrasound and laceration repair.

- No differences reported in fecal incontinence symptoms at 3 months or 1 year postpartum
- In one study, 24% of women diagnosed with a sphincter tear by endoanal ultrasound did not have confirmation of anal sphincter damage at the time of surgery, which may describe a high false positive rate for sphincter injury
  Not routinely performed in postpartum population

What to do in subsequent pregnancies? Expert opinion recommends that if a woman had a breakdown of her laceration repair, suffered fecal incontinence post delivery, or expressed suffering psychological trauma from her birthing experience that it is reasonable to offer her a planned cesarean section

 Decision made based on clinical presentation and symptoms

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## **Takeaway points**

Overall incidence of OASIS injury is 6.3% Operative delivery is a major risk factor for OASIS injuries Fecal incontinence occurs in 28% of women after OASIS injuries Aseptic technique and antibiotics at the time of initial repair decreases risk of breakdown Infection is the main risk factor for breakdown of laceration repair Once infection has been treated, immediate repair of laceration may be warranted Pelvic floor physical therapy has been proven to improve urinary and fecal incontinence at 1 year postpartum Refer to urogynecology!!

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