

# Third and Fourth Degree Tears: A Retrospective Audit of Practice over a 12 month Period at a

Tertiary Sydney Hospital Davies B, Spear V, Bisits A, Lyons S The Royal Hospital for Women, Sydney

Mode of Delivery

Parity



## Introduction:

Third and fourth degree perineal tears complicate 5.7% of births in first delivery<sup>1</sup>. Complications include pain, infection, wound breakdown and pelvic floor dysfunction, including urinary and faecal incontinence. Principles of management include use of broad-spectrum antibiotics<sup>2,3,4</sup>, adequate analgesia, laxative use<sup>3,5</sup> and pelvic floor physiotherapy. <sup>6,7,8,9,10</sup> Guidelines aid in ensuring implementation of evidence-based management in the inpatient setting and inpatient specialty clinics have been used in the outpatient setting to address the unique needs of women with OASI in the longer term.<sup>11,12</sup> Attendance at the OASIS follow-up clinical a tertiary Sydney Hospital was noted to be low and a retrospective clinical audit was performed to review clinical practice, including attendance at follow-up.

#### Aims

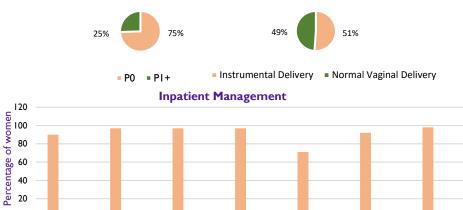
- Over a 12-month period, examine the number of women who sustain OASIS. Identify how many receive care consistent with local guidelines, including inpatient antibiotic and laxative use, referral to physiotherapy and referral to OASIS clinic.
- Of the women referred to OASIS clinic, identify the number of women who attend follow-up (4 weeks and 4 months).
- Identify the presenting complaint at follow-up.

#### Methods

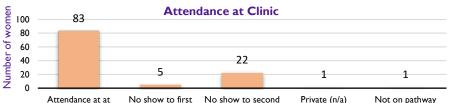
FOR WOMEN

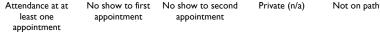
The 12-month period between 01 July 2021 – 30 June 2022 was reviewed via 'eMaternity' to access the names of women who sustained OASIS. The electronic medical record files of these women were then reviewed to establish adherence to local guidelines, referral and attendance to OASIS clinic and principal compliant/s. **Demographics:** 

3 <sup>rd</sup> / 4 <sup>th</sup> Degree Tears
90 (2.3% births) (2.4% women)
Number of Women
40
35
12
3

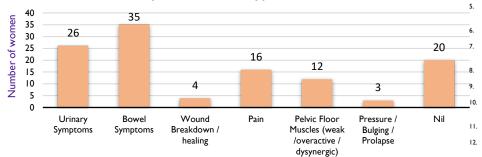


0 24 hours IV Oral antibiotics Analgesia prescribed Laxatives Bowels open Inpatient Referral to Physiotherapy OASIS clinic Review





## **Complaint/s at Clinic Appointment**



## **Results:**

The vast majority of patients received inpatient care consistent with local guidelines. All women were referred to OASIS clinic. 92% of women attended a follow-up appointment and the majority had at least one symptom or concern. Attendance to 4-month follow-up was much lower, with a 24% no-show rate.

### **Discussion:**

Inpatient management was mainly consistent with the local guidelines. Of women who attended follow up, the majority had at lease one symptom (most commonly urinary or bowel symptoms) and this provided an opportunity for physiotherapy referral or assessment if this had not already occurred and further follow up to be arranged. There was a low rate of wound breakdown or infection and these were managed with oral antibiotics and outpatient monitoring. The 24% 'no-show' rate at 4 month follow up has implications for providing evidence-based care as the 4-month visit was when endoanal ultrasound was discussed, the gold standard for assessing anal sphincter function. There are also implications for the use of clinic time, which may be better utilised.

#### Conclusion

Although there was high adherence to guidelines for inpatient care, rate of attendance to the OASIS clinic for outpatient follow up was low, despite many women having symptoms at initial appointment. Since this audit was performed, the OASIS clinic has commenced sending text message reminders to women prior to appointments and this has been noted to improve attendance thus far. There are plans to re-audit to assess the effectiveness of this intervention.

#### References

4

Jha S, Parker V. Risk factors for recurrent obstetric anal sphincter injury (rOASI): a systematic review and meta-analysis. Int Urogynecol J [Internet]. 2016; 27(6). Available from: doi: 10.1007/s00192-015-2893-4

Buppasiri P, Lumbignanon P, Thinkhamrop J, Thinkhamrop B. Antibiotic prophylaxis for third- and fourth-degree perineal tear during vaginal birth. Cochrane Database Sys Rev [Internet]. 2014; (10). Available from: doi: 10.1002/14651858.CD005125.pub4.

Cox C, Bugosh M, Fenner D, Smith R, Swenson C. Antibiotic use during repair of obstetrical anal sphincter injury: a quality improvement initiative. Int J Gynaecol Obstet [Internet]. 2022; 156(1). Available from: doi: 10.1002/ijgo.13623 Taskiridis J, Mamopoulos A, Athanasidis A, Dagklis T. Obstetric Anal Sphincter Injuries at Vaginal Delivery: A Review of Recently

Blaes G, Simms C, Vickers H, Kershaw V, Jha S. Which symptoms of pelvic floor dysfunction does physioherapy improve after an OASI? Eur J Obstet Gymecol Reprod Biol [Internet]. 2021; 264. Available from doi: 10.1016/j.ejogrb.2021.07.048 Von Bargen E, Haviland M, Chang O, McKinney J, Hacker M, Elkadry E. Evaluation of Postpartum Pelvic Floor Physical Therapy on Obstetrical Anal Sphincter Injury: A Randomized Controlled Trial. Female Pelvic Med Resconstr Surg [Internet]. 2021; 27. Available from: doi: 10.1097/SPV.00000000000000000000

Royal College of Obstetricians and Gynaecologists. The Management of Third- and Fourth-Degree Perineal Tears. Green-top guideline no 29. June 2015. https://www.rcog.org.uk/media/Sjeb5/kru/gtg-29.pdf [Accessed Dec 2022]. The Royal Hospital for Women. Third and Fourth Degree Perineal tear – Repair and management. Local operating procedure. 20 April 2017. https://www.seslhd.health.nsw.gov.au/sites/default/files/documents/34tearsrepairmanage.pdf [Accessed November 2022] The Royal Hospital for Women. Third and Fourth Degree Tear – Ward based care of a postnatal woman. Local operating procedure. 7 July 2016. https://www.seslhd.health.nsw.gov.au/sites/default/files/documents/thirdfourthtear16.pdf [Accessed November 2022]

Viannay P, de la Codre F, Brochard C, Thubert T, Meurette G, Legendre G, et al. Management and consequences of obstetrical anal sphincter injuries: Review. J Visc Surg [Internet]. 2021; 158(3). Available from: DOI: <u>10.1016/j.jviscurg.2020.10.010</u> Brincat C, Crosby E, McLeod A, Fenner D. Experiences during the first four years of a postpartum perineal clinic in the USA. Int J Gynaecol Obstet. [Internet]. 2015; 128(1). Available from: DOI: <u>10.1016/j.igo.2014.07.026</u>