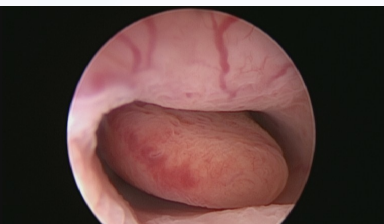
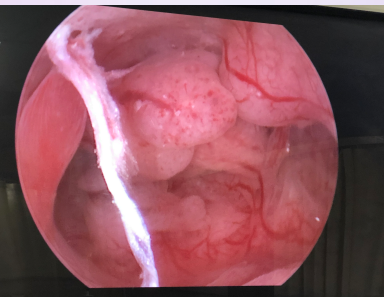


The Leonardo 45 Diode Laser use in outpatient hysteroscopy; a novel procedure. The Royal Hospital for Women experience

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Aim

To demonstrate the success and patient tolerability of outpatient hysteroscopy in combination with the Leonardo 45 diode laser for treatment of endometrial pathologies (polyps and submucosal fibroids). The Leonardo Diode laser is an easily portable, cost effective, user-friendly and safe device. It allows for a highly precise treatment of uterine pathology with the ability to "see and treat" common causes of abnormal uterine bleeding (AUB) in the outpatient setting. Dr Juman Farjo, (Staff Specialist Gynaecologist, Royal Hospital for Women, MBBS, FRANZCOG, DDU) introduced this leading-edge technology in late 2017 and it is currently the only site in Australia offering this specialised service for women.

Method

A retrospective audit of all women who underwent outpatient hysteroscopy at the RHW over a 4-year period from October 2017 to October 2021. Participants were women who had intrauterine pathology diagnosed on pelvic ultrasound during investigation for AUB, pelvic pain, infertility or an incidental finding. Results were obtained from electronic medical records. Complete resection of the pathology at the time of the procedure, complication rate and tolerability were the primary and the secondary outcomes.

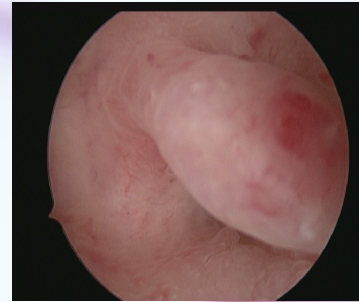
Results

115 women underwent outpatient hysteroscopy over the specified time period. Case numbers were impacted by the COVID-19 pandemic and cuts to clinics over the last 2 years. 75% were referrals for AUB and 25% for other reasons including infertility. A total of 74 uterine pathologies (64%) were identified and 70/74 (95%) of these lesions were successfully resected in the outpatient setting. 4 cases (5%) of cases had to be rescheduled for inpatient management due to patient discomfort and/or other factors (stenosed cervix, morbid obesity or poor visualisation.) Major adverse events were rare, but one patient had a vasovagal episode.

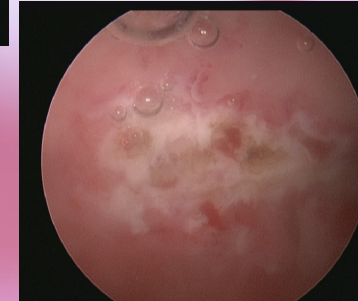
Indication for referral



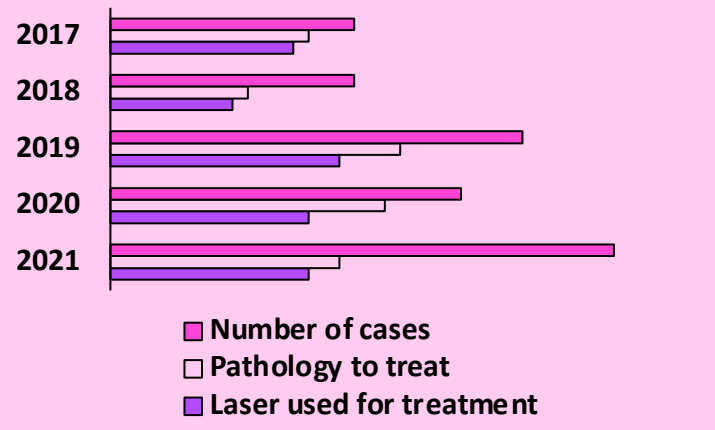
■ AUB ■ Incidental finding



BEFORE TREATMENT



AFTER TREATMENT



■ Number of cases
 □ Pathology to treat
 ■ Laser used for treatment

Discussion

The Leonardo 45 Diode laser is a highly effective and safe treatment for the management of the common intrauterine pathologies and is well tolerated in the outpatient setting. We have demonstrated the same international success and tolerability with its use over the past 4 years.

