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Title: Hymen-saving hymenotomy of imperforate hymen in neonates and adolescents: tertiary medical center experience

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Abstract

Background:

Imperforate hymen (IH) is the most common obstructive anomaly of female genital tract. Hymen saving has a great importance for both cultural and religious reasons. Conventional surgical treatment for this condition is cruciate incision hymenotomy or hymen-saving central annular hymenotomy (HSCAH). This study aimed to review presentations and management of neonate and adolescents with IH at one tertiary hospital over 12 year's period. The aim also was to stress upon importance of hymen saving to our Muslim community and improve knowledge, enable targeted education, and reduce unnecessary tests and diagnostic delay for this condition.

Methods:

Twenty-five patients with IH were diagnosed and treated in this retrospective cohort study over 12 years, from January 2010 till December 2021. Demographic characteristics of the patients, their symptoms and signs, investigations, type of operations, recurrence, and infections were recorded and analyzed.

Results:

Saudi accounted for the majority of IH cases (88%). There were fifteen adolescents, and ten were neonates. Bulging imperforate hymen, pelvic/abdominopelvic mass, constipation, acute urine retention, abdominal discomfort, and lower abdominal distension were among the signs and symptoms. All 25 patients had HSCAH, 21 of whom had primary HSCAH and four of whom had secondary HSCAH due to recurrence. To avoid recurrence, HSCAH was performed with suturing of the inner vaginal mucosa to the exterior vestibular mucosa.

Conclusion:

Early diagnosis of imperforate hymen for neonate and adolescent girls and prompt definitive HSCAH could have positive impact on treatment outcome and decrease complications and fulfill integrity of hymen as virginity of high importance in our Muslim community and other similar culture, where hymen-sparing procedure is preferred by most of these patients and families.



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Biography

Dr. Ettedal Atiyah AlJahdali is a graduate of King Abdulaziz University, College of Medicine, during the year 1994. She then specialized in Obstetrics and Gynecology and has her expertise in Pediatrics Adolescent Gynecology and is motivated in spreading awareness in this specialty. She is also a member and deputy of the Intersex Center in King Abdulaziz University Hospital Jeddah, Saudi Arabia which involves in all types of pelvic reconstructive surgeries of genital tract anomalies. Dr. Ettidal has built this healthcare path after years of experience in research, evaluation, teaching, and administration both in hospital and education institutions. She believes in the importance of educating and improving awareness of the general population within the pediatrics and gynecology specialty.

Recent publication:

- 1. Pregnancy outcomes at advanced maternal age in a tertiary Hospital, Jeddah, Saudi Arabia,** [Ettedal A. AlJahdali](#), ABOG, SBOG, Nawal S. AlSinani, ABOG, SBOG. Saudi Med J 2022; Vol. 43 (5): 491- 499 doi: 10.15537/smj.2022.43.5.20220023
- 2. Successful pregnancies in an adolescent with Herlyn-Werner-Wunderlich (HWW) syndrome: a case report and literature review,** [Ettedal A. Aljahdali](#), MBBCh, SBOG, CBG OBGYN, AFSA, Leena I. Sharafuddin, MBBCh, Wejdan O. Baamer, MBBCh, SBOG, Maram A. Enani, MBBCh, Fotoon S. Alzhrani, MBBCh Ann Pediatr Surg 18, 34 (2022). <https://doi.org/10.1186/s43159-022-00171>
- 3. Isolated clitoral hood Hair thread tourniquet syndrome: First Report of 6 cases,** Ettedal A. Aljahdali, ABOG, SBOG, DOI: 10.7759/cureus.26472
- 4. Hymen-saving hymenotomy of imperforate hymen in neonates and adolescents: tertiary medical center experience,** [Ettedal A. Aljahdali](#)¹* and Mazen O. Kurdi², Annals of Pediatric Surgery (2022) 18:53, <https://Doi.org/10.1186/s43159-022-00192-1>
- 5. Distinct Presentations and management of hernia of the umbilical cord: 15 years' experience in Tertiary Hospital,** Yasir s. Jamal, FRCS, FICS; Mazen O Kurdi, FRCS; [Ettedal A. Aljahdali](#), ABOG, SBOG; Samera F. AlBasri MBBCh, ABOG SBOG, MS, MED; Abdullah Y. Jamal, MBBCh. AOPS-D-22 00080R, DOI: 10.1186/s43159-022-00191-2
- 6. Association of Postpartum Hemorrhage Complication with its Factors and Surgical Treatments,** Samera AlBasri, Orjwan Saud Khayat, Naif Ahmad AlAnsari, [Ettedal Atiyah AlJahdali](#), Ann Obstet Gynecol. 2022; 5(2):1037.



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7. **Neuromuscular electrical stimulation for perineal muscle repair following episiotomy: The first preliminary study**, Ettidal Atiyah AlJahdali, Samera AlBasri, Ann Obstet Gynecol. 2022; 5(2):1039 <http://meddocsonline.org/annalsof-obstetrics-and-gynecology-archive.html#X>

8. **Placenta Previa and Placenta Acrreta Spectrum at KAUH**, Samera AlBasri , Ettidal Atiyah AlJahdali, Journal of Complementary Medicine Research, 13(4),

9. **Medical Trainees' Attitudes about the Value of Simulation in the Obstetrics and Gynecology Program of King Abdulaziz University, Jeddah, Saudi Arabia**, Ettedal Atiyah Aljahdali, MBBCh, SBOG, CBG OBGYN, AFSA Journal of Complementary Medicine Research
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