Imperforate Hymen Treatment by 2940nm Fotona Er:YAG Laser

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Introduction:

Imperforate hymen is a rare congenital condition that often presents at puberty with pelvic pain and hematocolpos. This case demonstrates a laser-assisted, virginity-sparing surgical approach.

Laser	Fotona XS Dynamis
Wavelength	2940 nm
Handpiece	R11
Fluence	13 J/cm^2
Mode	SP
Frequency	30 Hz
Spot size	2 mm
Anesthesia	yes
Sessions	1

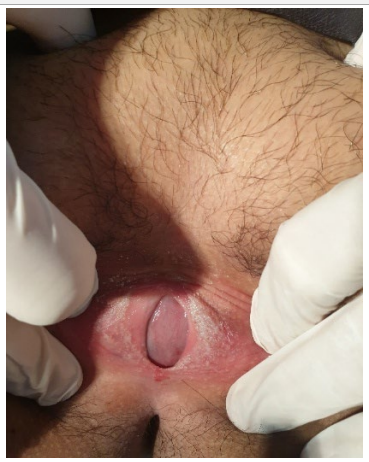
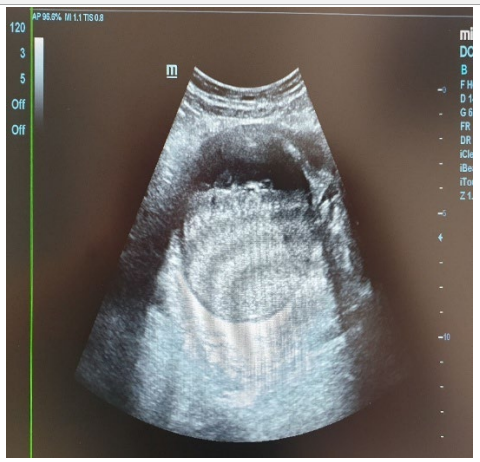
Ali Haydar Kantarcı graduated from Gazi University Faculty of Medicine in Ankara in 2007, and then finished his obstetrics and gynecology specialization at Selçuk University in 2012. In 2014 he received an IVF certificate from HRS Hospital in Ankara. Since 2018 he has been working in his private clinic as a gynecologist. He has over 600 cases of gynecological laser experience.

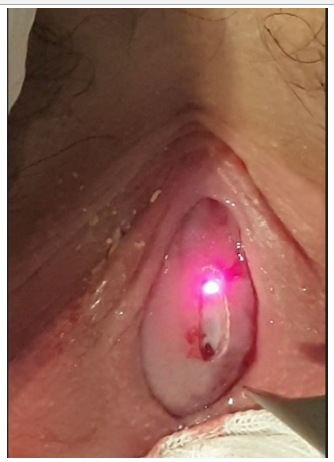
CLINICAL CASE:

A 13-year-old girl was referred to our clinic with severe pelvic pain. Hematocolpos was seen on ultrasound, and upon pelvic examination an imperforate hymen was diagnosed. It is generally diagnosed during puberty. Treatment generally consists of a hymenotomy or a hymenectomy. In cultures and religions where the destruction of the hymen is a social problem in unmarried girls, virginity-sparing surgery can be a useful option. This technique gives us this choice.

A vertical incision along the central line of the hymenal membrane was performed by using the laser's cutting mode, followed by drainage of blood. Then a 16F Foley catheter was inserted and the balloon was insufflated with 3 cc serum physiologic. The catheter was removed after 2 weeks. Estrogen cream was prescribed for application onto the hymenal structure for 2 weeks. After removal of the Foley catheter, hymenal healing was excellent and allowed vaginal bleeding. Hymenal architecture was preserved as seen in the

image.

Before: Imperforate hymen	Before: Hematocolpos on ultrasound
	

During the operation:Laser incision	During the operation: Laser incision and blood drainage
	

During the operation: Insertion of a 16F Foley catheter	15 days after the treatment