

A person stands on a rocky shore, looking out at a sunset over the ocean. The sun is low on the horizon, casting a long, bright reflection on the water. The sky is filled with colorful clouds, and the overall scene is serene and contemplative. A dark, diagonal shape is overlaid on the left side of the image, partially obscuring the person and the rocks.

THE YEAR IN REVIEW: SURGERY

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Conflict of interest

I have no potential conflict of interest to report

- The increase of number of patients interested in gender affirmation surgeries
- The need for specialized centers
- Availability of different treatment options
- Results

SURGICAL OPTIONS

TRANS WOMEN

- Penectomy
- Orhiectomy
- Vaginoplasty
- Facial feminization
- Voice feminization
- Breast augmentation

TRANS MEN

- Bilateral mastectomy
- Phalloplasty procedures
- Facial masculinization
- Body masculinization

AIMS

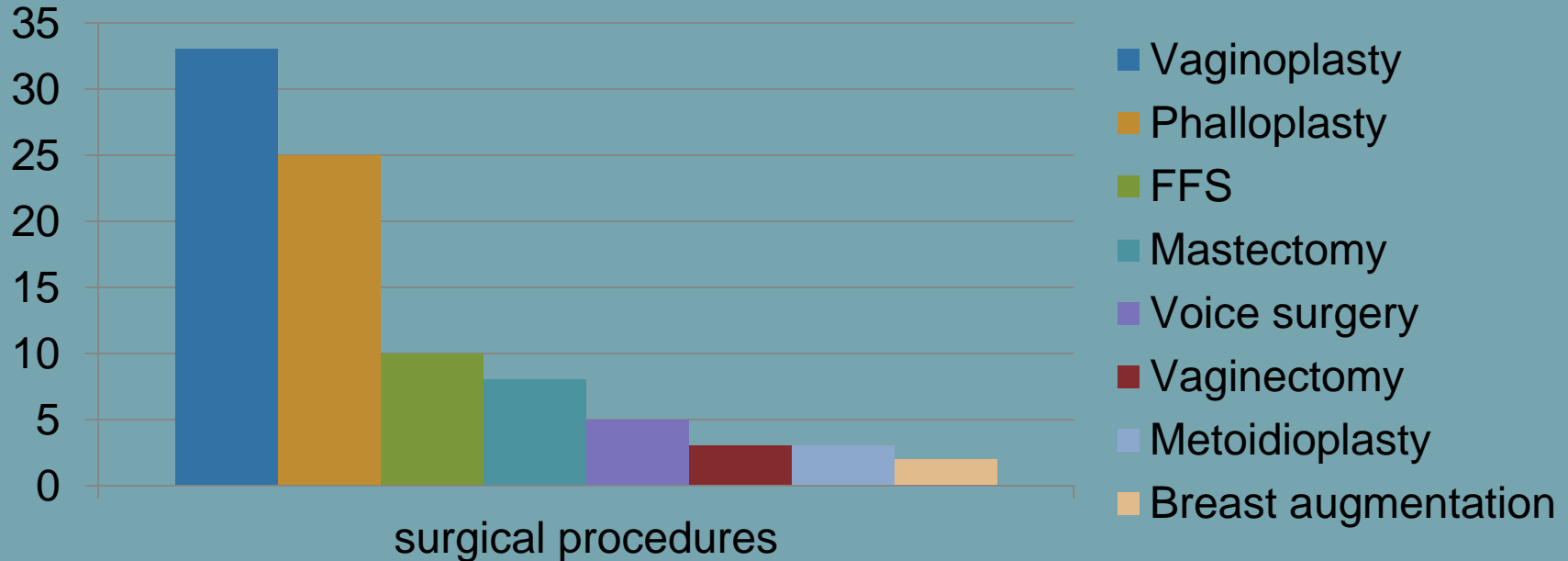
- i. To review the latest gender affirmation surgical procedures
- ii. To review different aspects of surgical treatment

METHODS



- i. An electronic search of literature was conducted for articles published between May 2017 and March 2019
- ii. Key words: Transgender surgery, Transwomen, Transmen, FtM, MtF, Facial feminization, Voice feminization, Vaginoplasty, Vaginal reconstruction, Breast augmentation, Breast reduction, Mastectomy, Phalloplasty, Metoidioplasty
- iii. Total: 89 different publications

89 publications were selected



Genital reconstruction

- i. The majority of publications about vaginal reconstruction in trans women
- ii. There were several reviews about existing techniques
- iii. One new technique was presented in: Aesthetic Plastic Surgery and Female Pelvic Medicine & Reconstructive Surgery
- iv. The majority of studies (13) were published in Clinics of Plastic surgery , (10) in Plastic and Reconstructive Surgery, (6) in Clinical Anatomy

Surgical treatment for transwomen

Genital surgeries: Vaginoplasty

- i. 33 studies about this procedure
- ii. Penile inversion technique remains a gold standard in neovaginal reconstruction
- iii. A vaginoplasty using bowel segments is becoming more common even as a first-choice (7 papers, 1 review)
- iv. The use of amnion in neovaginal reconstruction – pilot study in 24 pts: *Seyed-Forootan K, Karimi H, Seyed-Forootan NS. Autologous Fibroblast-Seeded Amnion for Reconstruction of Neo-vagina in Male-to-Female Reassignment Surgery. Aesthetic Plast Surg. 2018;42(2):491-497.*
- v. The use of peritoneum for vaginal reconstruction – Davydov procedure: *Jalalizadeh M, Shobeiri SA. Davydov Procedure for Augmenting Vaginal Length in a Postsurgical Male-to-Female Transgender Patient. Female Pelvic Med Reconstr Surg. 2018 ;24(4):e9-e11.*

Facial feminization for transwomen

- i. 10 publications
- ii. The focus was on the upper third of the face
- iii. Studies were about forehead reconstruction, hair-line mobilization and rhinoplasty techniques

Breast augmentation

- 2 publications (reviews)
- 70% of trans women undergo breast augmentation surgeries
- Preoperative planning
- Inadequate skin elasticity
- Insufficient skin envelope
- Wider sternum
- Fat transfer in décolleté area
- Desire for larger breasts

Voice feminization

A photograph of a person with long brown hair, wearing a grey cardigan over a blue and white striped shirt, playing a violin. The violin is a light brown color. The person's hands are visible, holding the violin and the bow. A dark, semi-transparent diagonal overlay covers the left side of the image, containing the title and a list of points.

- i. 5 publications
- ii. Different operative techniques have been described to raise voice pitch
- iii. Focus was on new endoscopical surgical techniques
- iv. Surgical procedures were mostly combined with voice therapy

Surgical treatments for trans men

Chest reconstruction: Bilateral mastectomy

- 8 publications
- Standardized protocols regarding the cup size and breast shape
- Modification of the procedure: *Frey JD, Yu JZ, Poudrier G, Motosko CC, Saia WV, Wilson SC, Hazen A. Modified Nipple Flap with Free Areolar Graft for Component Nipple-Areola Complex Construction: Outcomes with a Novel Technique for Chest Wall Reconstruction in Transgender Men. Plast Reconstr Surg. 2018;142(2):331-336.*

Surgical treatments for transmen

Genital reconstruction: Phalloplasty

- i. 25 publications
- ii. Radial forearm free flap (RFFF) remains the gold standard
- iii. 3 papers about detailed anatomy for forearm, anterolateral and abdominal flap phalloplasty
- iv. Approaches to postoperative complications

Genital reconstruction for trans men: Metoidioplasty

- i. Uses the hypertrophied clitoris to reconstruct a small neophallus
- ii. 4 publications regarding the topic (3 reviews, 1 solution for postoperative complication)
- iii. Upright voiding cannot be guaranteed
- iv. Penetration during sexual intercourse is not possible
- v. Belgrade Team

Conclusions

- i. Increasing number of publications is noticed
- ii. Genital reconstruction is foremost subject
- iii. All surgical procedures in gender reassignment process are equally important
- iv. New findings contribute to our efforts to make this type of surgery better every year

THANK YOU!

