



# Modified balloon vaginoplasty: the fastest way to create a natural: minor changes in technique eliminate the need for customized instruments

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## Abstract:

**Abstract** We studied the feasibility of performing balloon vaginoplasty (BV) with conventional laparoscopic instruments through 2 modified techniques aiming at providing BV for open use. Three of 6 cases with vaginal aplasia were offered modified laparoscopically assisted balloon vaginoplasty (LAB-V) and the other 3 cases underwent modified retropubic balloon vaginoplasty (RBV). We measured operative time, complications, anatomical outcomes, functional outcomes, and re-intervention rates. Modified RBV and LAB-V were performed successfully in the 6 cases within 9-12 and 29-38 min, respectively. The neovagina depths were 8-10 and 9-12 cm, respectively. Anterior rectal wall needle puncture was encountered in 1 case of LAB-V group and posterior urethral wall puncture in an abnormally dilated urethra in 1 case of the RBV group; both cases passed uneventfully. Intercourse was initiated after removal of all catheters. The neovagina was a cosmetically appealing mimic to nature and stained with iodine up to its apex. It was feasible to perform balloon vaginoplasty operations without specialized instrument sets with comparable outcomes.

## Keywords:

balloon vaginoplasty

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