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BRIEF COMMUNICATION

Labial fusion causing pseudoincontinence in an elderly woman

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KEYWORDS

Labial fusion;

Urocolpos;

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Pseudoincontinence;

Hypoestrogenism

Adhesions of the labia are rare in the adult population with only a few cases described in the English literature. The etiology of labial adhesions probably relates to vaginal inflammation or irritation. Once the superficial epithelium of the labia is denuded subsequent healing leads to fibrous adhesions between the labia. Etiological factors for labial fusion in adult women are local inflammation, senile vaginitis, hypoestrogenism, lack of sexual activity, local trauma, vaginal laceration following childbirth, female genital cutting (infibulation) and recurrent urinary tract infections [1–3]. There could be skin pathology in the form of genital herpes or lichen sclerosus [2].

A 55-year-old postmenopausal woman presented with a history of incontinence, straining at micturition, and a vaginal itching sensation. The incontinence was continuous with intermittent normal voiding although the urinary stream was weak. Routine urine analysis revealed 8–10 white blood cells/high power fields, and the urine culture was sterile. General physical examination was within normal limits. Pelvic examination demonstrated extreme labial fusion with only a pinhole opening (Fig. 1). There was also perivulvar skin excoriation and the labia

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were exquisitely tender to palpation. Perirectal examination 38 revealed no evidence of anterior bulging suggestive of urocol- 39 pos. Conservative management in the form of local estrogen 40 cream application was instituted without improvement. The 41 woman underwent labial separation under spinal anesthesia. 42 There were also vaginal synechiae and urethral stenosis which 43 were lysed and dilated with Hegar's dilators (Fig. 2). Post- 44 operatively the patient was instructed to apply estrogen cream 45 locally. At 3 months of follow-up, the local mucosa was healthy 46 with no recurrence.

Labial fusion may be incidentally detected or it may have varied 48 presentations such as vulvodynia, vaginal pruritus, and voiding 49 difficulty [4]. This case presented with pseudoincontinence caused 50

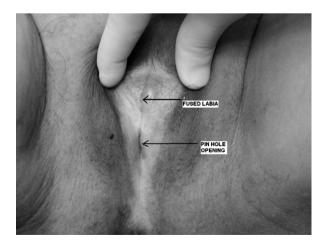


Figure 1 Labial fusion with only a small opening.

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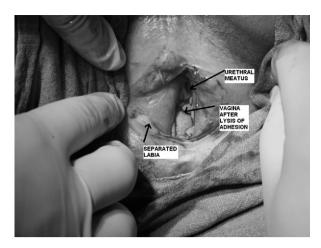


Figure 2 Final appearance after labial separation, lysis of vaginal synechiae, and urethral dilation.

by collection of urine in the space behind the fused labia. The stenotic urethra could have added to the voiding problems. Arango Toro et al. [5] presented a similar case of labial fusion resulting in pseudoincontinence.

Treatment is most often conservative in the form of estrogen cream for hypoestrogenism and atrophic mucosa. Labial separation should be employed when this treatment fails; but as the labia are often tender the separation may need to be done under anesthesia. In addition, the presence of vaginal synechiae or

urethral stenosis can make regional or general anesthesia 60 desirable. Postoperatively estrogen or steroid cream should 61 help to prevent recurrence of the problem. Steroids are 62 certainly of benefit when lichen sclerosus is present. In the 63 recurrent cases repeat surgery may be needed. There are 64 reports of amniotic membrane coverage and advancement flap 65 surgery used for the refractory cases. Labial fusion is a rare 66 condition in adults, most often caused by hypoestrogenism. 67 While conservative topical estrogen therapy may suffice, labial 68 fusion may persist and require surgical intervention.

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