Obstetrics and Gynaecology Section

Large Vulvar Haematoma of Traumatic Origin

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A 40-year-old woman presented to the Emergency room at the University of Michigan Hospital with a large vulvar haematoma following an accidental fall in a squatting position onto the corner of a wooden object after alcohol intoxication. A tense large haematoma, with the majority occurring on the right labium majus was present [Table/Fig-1]. There was tenderness to touch. An ultrasound was performed to investigate the size, site and expansion of the haematoma. A localized 6.7 cm x 2.9 cm x 3 cm heterogeneous hypoechoic lesion compatible with a non-expanding haematoma was noted, with no discrete fluid collection amenable to drainage [Table/Fig-2]. The patient was managed conservatively with systemic pain relief with oxycodone 5 mg tablets orally every four to six



[Table/Fig-1]: Significantly distorted anatomy due to the tense large haematoma on the right labium majus.



demonstrates a heterogeneous hypoechoic lesion (white arrows) with an appearance compatible with a haematoma. It measures approximately 6.7 cm x 2.9 cm x 3 cm.

a, was advised to be seen either by her primary care physician or in the emergency room if she noted any worsening in swelling of her labial haematoma, or symptoms such as new fever or bleeding. The patient was lost on follow up and there is no further information as to how many days it took for the haematoma to regress.
Vulvar haematomas in non-obstetric women are rare and not extensively reported in the literature [1]. The reported incidence

is 3.7% [2] and they constitute up to 0.8% of all gynaecologic admissions [3]. They often result from direct perineal trauma that crushes the vulvar tissue against the pelvic bones causing vascular injury such as in cases of straddle type injuries, forceful coitus or sexual assault [1]. Though perineal trauma has been regarded as the main cause, there have also been cases reported of spontaneous vessel rupture that have resulted in a vulvar haematoma in non-obstetric settings [4].

hours as needed for pain. The patient was also advised to perform

warm water soaks to improve the local circulation and assist in the

reabsorption of this haematoma. The patient was discharged and

Different imaging modalities have been used to investigate the size, location and expansion of the haematoma. Perineal ultrasound has been reported to provide an easy and objective bedside assessment of the extent of the haematoma [5]. Other more complex and expensive imaging modalities involve Computed Tomography (CT) and Magnetic Resonance Imaging (MRI). They both allow for a more specific and detailed mapping of the vulvar haematoma with the capacity to exclude a possible retroperitoneal involvement and to detect any bleeding vessels [6,7].

There are no consensus management guidelines and a paucity of literature exists [1]. The majority of vulvar haematomas are managed conservatively, however if the haematoma continues to grow surgical intervention may be required [8]. Blood clot evacuation, ligation of the bleeding points, and primary closure of the haematoma cavity have been reported as a means of surgical treatment [4,8]. Selective arterial embolization has also been reported as an alternative to traditional surgical exploration [1].

In the presented case, the haematoma was stable and non expanding and therefore was managed conservatively with the use of systemic pain medication and warm water soaks.

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