

Leech Infestation in the Vulvar Region: A Possibility to be Considered

Azar Danesh Shahraki, Shahnaz Aram, Fereshteh Mohammadzadeh¹

Department of Obstetrics and Gynecology, School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran, ¹Department of Pathology, School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran

Date of Submission: Jun 17, 2013

Date of Acceptance: Aug 08, 2014

DEAR EDITOR,

We visited a 75-year-old G7L7 rural woman with a painful vulvar lesion highly suspicious for malignancy near the introitus measuring 5 cm × 3 cm × 2 cm. The lesion was oval shaped, erythematous, and purple colored with a soft consistency and started bleeding during examination. Inguinal lymphadenopathy was absent. The patient's past medical history was unremarkable. Biopsy was planned according to the suspicious clinical appearance of the lesion. Accidently, an experienced gynecologist visited the patient prior to biopsy taking. She became suspicious of the presence of a leech tightly attached to the mucosa of the region and flushed normal saline onto the surface of the lesion. A leech bloated with blood gradually detached from the vulvar mucosa and the suspicious clinical picture almost disappeared. After removal of the leech, we took further history from the patient and understood she does not have access to hygienic water in her village for body cleaning and uses well water for washing the perineal region after voiding.

On the review of the literature, we found some reports of leech infestation in the lower female genital tract. Jana *et al.* have reported 3 cases of the leech bite among 52 rural Indian women with nonobstetric lower genital tract injuries.^[1] Aribarg and Phupong from Thailand have reported leech

Correspondence to:

Dr. Azar Danesh Shahraki,
Department of Obstetrics and Gynecology,
School of Medicine, Isfahan University of
Medical Sciences, Isfahan, Iran.
E-mail: danesh@med.mui.ac.ir

How to cite this article: Shahraki AD, Aram S, Mohammadzadeh F. Leech Infestation in the Vulvar Region: A Possibility to be Considered. *Int J Prev Med* 2014;5:1630-1.

infestation as one of the causes of vaginal bleeding in children under 10 years old.^[2] Leech infestation through lower body orifices including vagina has also been reported to be common in children of rural Bangladesh.^[3] Rare complications such as intraperitoneal hemorrhage and shock have been reported in a 2-year-old girl from India as a consequence of intraperitoneal leech which had entered the peritoneal cavity through vagina and uterus.^[4] Leech bite on the vaginal wall has also been reported as the cause of vaginal bleeding in postmenopausal women.^[5,6]

The possibility of the leech bite should be considered in the vulva and vagina in regions where leeches are prevalent and hygienic water for body cleaning is not available. This condition may present as a lesion with unusual and unfamiliar clinical picture or vaginal bleeding. Familiarity with the lesion is of great importance in making the correct diagnosis. Application of normal saline is enough for removal of the leech in most instances. However, surgical intervention under local or general anesthesia is required in some cases.^[3]

REFERENCES

1. Jana N, Santra D, Das D, Das AK, Dasgupta S. Nonobstetric lower genital tract injuries in rural India. *Int J Gynaecol Obstet* 2008;103:26-9.
2. Aribarg A, Phupong V. Vaginal bleeding in young

- children. Southeast Asian J Trop Med Public Health 2003;34:208-12.
3. Hannan MJ, Hoque MM. Leech infestation in children through body orifices: Experience in a hospital in Bangladesh. World J Surg 2012;36:2090-2.
 4. Saha M, Nagi S. Intraoperative leech: A rare complication of leech bite. J Indian Assoc Pediatr Surg 2011;16:155-7.
 5. Hernández M, Ramírez Gutierrez RE. Internal hirudiniasis: Vaginal bleeding resulting from leech bite. Ginecol Obstet Mex 1998;66:284-6.
 6. Mekasha A. Post menopausal vaginal bleeding due to vaginal wall leech infestation. Ethiop Med J 1995;33:271.

Source of Support: Nil, **Conflict of Interest:** None declared.