

Available online at www.sciencerepository.org

Science Repository



Research Article

Lymphatic Drainage of Bartholin's Gland in Fresh Adult Cadavers: Implications in Terms of Groin Surgery in Case of Bartholin's Gland Carcinoma

Emilie Serre^{1,2}, Christophe Destrieux³, Gilles Body^{1,2,4} and Lobna Ouldamer^{1,2,4*}

¹Department of Gynaecology, Centre Hospitalier Régional Universitaire de Tours, Hôpital Bretonneau, Tours, France

²François-Rabelais University, Tours, France

³Department of Anatomy, Centre Hospitalier Régional Universitaire de Tours, Hôpital Bretonneau, Tours, France

⁴INSERM unit 1069, Tours, France

ARTICLE INFO

Article history:

Received: 7 February, 2022

Accepted: 8 March, 2022

Published: 14 March, 2022

Keywords:

Bartholin's gland
carcinoma

lymphatic drainage
surgery
groin
inguinofemoral

ABSTRACT

Objective: To investigate the lymphatic drainage of Bartholin's gland and its therapeutic implications in Bartholin's gland carcinoma.

Materials and Methods: Data were obtained from the anatomical study of ten fresh female cadavers with groin and pelvic dissections after lymphatic channel and node staining by injection of Lipiodol dye solution into Bartholin's gland.

Results: We distinguished three different lymphatic pathways: i) the superficial inguinal pathway, identified in 61.5% of cases, ii) the internal pudendal pathway (towards the pararectal fossa), identified in 30.8% of cases, and iii) the pelvic pathway, identified in 15.4% of cases, one after an inguinal pathway and the other following the labiocrural fold. No evidence of stained lymphatic structures was found in 31.6% of cases. The principal pathway was always ipsilateral.

Conclusion: Ipsilateral groin lymphadenectomy offers the most effective ratio between oncological safety and surgery-related complications.

© 2022 Lobna Ouldamer. Hosting by Science Repository.

Get access to the full version of this article: <http://dx.doi.org/10.31487/j.JSO.2022.01.01>

*Correspondence to: Lobna Ouldamer, Department of Gynaecology, Centre Hospitalier Régional Universitaire de Tours, Hôpital Bretonneau, 2 Boulevard Tonnellé, 37044 Tours, France; Tel: +330247474741; Fax: +330247479273; E-mail: Louldamer@chu-tours.fr