VIDEO

Posterior retroperitoneoscopic approach to the adrenal arteries

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Received: 9 February 2016 / Accepted: 15 March 2016 / Published online: 8 April 2016
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Abstract

Background Differently from transperitoneal adrenalectomy, with the posterior retroperitoneoscopic approach adrenal arteries are dissected first [1, 2]. Knowledge of their position is pivotal as they are covered by peri-adrenal fat [3, 4].

Methods Four posterior retroperitoneoscopic adrenalectomies were selected, in which adrenal arteries are dissected to show their path and how they can be localized among peri-adrenal fat.

Results A video is presented herein, which focuses on surgical anatomy of adrenal arteries when approached during a posterior retroperitoneoscopic adrenalectomy. Details about relative positions between adrenal arteries and adjacent structures are considered and shown during their dissection.

Conclusions The posterior retroperitoneoscopic approach offers a direct view of adrenal arteries and allows for their exposure and safe division in the early steps of adrenalectomy.

Keywords Posterior retroperitoneoscopic adrenalectomy · Laparoscopic adrenalectomy ·

Adrenalectomy · Suprarenal · Anatomy adrenal · Adrenal vein

Compliance with ethical standards

Disclosures Marco Lotti, and Michela Giulii Capponi have no conflicts of interest or financial ties to disclose.

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Electronic supplementary material The online version of this article (doi:10.1007/s00464-016-4884-z) contains supplementary material, which is available to authorized users.

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