



UROLOGY

**UPDATE IN** 

**UROANATOMY** 

# Editorial Comment: Anatomy of testicular artery: A proposal for a classification with MDCT angiography

Serife Balci <sup>1</sup>, Selin Ardali Duzgun <sup>1</sup>, Sevtap Arslan <sup>1</sup>, Huseyin Balci <sup>2</sup>, Musturay Karcaaltincaba <sup>1</sup>, Ali Devrim Karaosmanoglu <sup>3</sup>

<sup>1</sup> Hacettepe University, School of Medicine, Department of Radiology, Ankara, Turkey, Hacettepe Universitesi Tıp Fakültesi Hastanesi, 06100 Sıhhiye, Ankara, Turkey; <sup>2</sup> Giresun University Prof. Dr. A. Ilhan Ozdemir Training and Research Hospital, Department of Radiology, Giresun, Turkey, Giresun Universitesi, Prof. Dr. A. Ilhan Özdemir Egitim Arastırma Hastanesi, 28200 Giresun, Turkey; <sup>3</sup> Hacettepe University, School of Medicine, Department of Radiology, Ankara, Turkey, Hacettepe Universitesi Tıp Fakültesi Hastanesi, 06100 Sıhhiye, Ankara, Turkey

Eur J Radiol. 2021 Sep;142:109885

DOI: 10.1016/j.ejrad.2021.109885 | ACCESS: 34364047

Natasha T. Logsdon<sup>1</sup>, Luciano A. Favorito<sup>1</sup>

<sup>1</sup> Unidade de Pesquisa Urogenital - Universidade do Estado do Rio de Janeiro - Uerj, Rio de Janeiro, RJ, Brasil

#### COMMENT

The knowledge of testicular arteries anatomy is important in pediatric urology and infertility surgeries. Previous studies about the testicular arteries in human fetuses shows a interesting pattern of anatomical variations (1, 2). During the Fowler-Stephens procedure in patients with high abdominal undescended testis is vey important this information is very important for the progress of the surgery (3). In the present paper the authors studied 400 patients during CT angiographies and (TAs) evaluated the number, origin, course, and caliber Testicular arteries showing some interesting anatomical variations. In more than 70% of the cases studied the testicular artery originates from the abdominal aorta, inferior to the level of renal artery. The authors shows a incidence of more than 25% of anatomical variations in anatomical pattern of testicular arteries. The figures in this paper are amazing and the authors concluded that normal anatomy and variations of testicular arteries may be effectively evaluated by CT angiography in a non-invasive manner.

## **CONFLICT OF INTEREST**

None declared.

## **REFERENCES**

- Sampaio FJ, Favorito LA, Freitas MA, Damião R, Gouveia E. Arterial supply of the human fetal testis during its migration. J Urol. 1999;161:1603-5.
- 2. Benzi TC, Logsdon NT, Sampaio FJB, Favorito LA. Testicular arteries anatomy applied to fowler-sthephens surgery in high undescended testis a narrative review. Int Braz J Urol. 2022;48:8-17.
- Braga LH, Farrokhyar F, McGrath M, Lorenzo AJ. Gubernaculum Testis and Cremasteric Vessel Preservation during Laparoscopic Orchiopexy for Intra-Abdominal Testes: Effect on Testicular Atrophy Rates. J Urol. 2019;201:378-85.

#### Luciano A. Favorito, MD, PhD

Unidade de Pesquisa Urogenital da Universidade do Estado de Rio de Janeiro - UERJ, Rio de Janeiro, RJ, Brasil E-mail: lufavorito@yahoo.com.br **ARTICLE INFO** 

Luciano A. Favorito http://orcid.org/0000-0003-1562-6068

Int Braz J Urol. 2022; 48: 594-5