**I EUROPEAN COURSE ON COLORECTAL SURGICAL ANATOMY**

VENUE:

Unit of Colorectal Surgery. Hospital Universitario y Politécnico La Fe, Valencia, Spain.

European Centre of Colorectal Surgery. Unit of Coloproctology, Hospital Vithas Nisa 9 de Octubre, Valencia, Spain.

Department of Anatomy and Embriology. Unit of Surgical Anatomy. University of Valencia, Spain.

AIMS:

Improve knowledge of anatomy and provide a practical view of colorectal surgery and proctology, based on practical and structured dissection of formoled cadavers.

Application of anatomical knowledge to advanced laparoscopic colorectal surgery.

LANGUAGE: English

DATES:

Friday 14 December 2018 (morning and afternoon)

Saturday 15 December 2018 (morning)

FORMAT:

Number of attendees: 18

Number of cadavers: 7. 1 fresh and 6 formoled cadavers

*Directors:*

- Alvaro Garcia-Granero. Unidad Cirugía Colorrectal de Hospital Universitario y Politécnico la Fe y Prof. Anatomía y Embriologia. Universidad de Valencia.

- Juan Garcia-Armengol. Centro Europeo Cirugía Colorrectal. Unidad de Coloproctología Hospital Vithas Nisa 9 de Octubre de Valencia.

- Alfonso Valverde Navarro. Director Departamento Anatomía y Embriología de Universidad de Valencia.

*Technical and scientific supervisor:*

- Matteo Frasson. Unidad Cirugía Colorrectal de Hospital Universitario y Politécnico la Fe de Valencia.

*Instructors:*

- Jose Vicente Roig Vila. Centro Europeo Cirugía Colorrectal. Unidad de Coloproctología Hospital Vithas Nisa 9 de Octubre de Valencia.

- Francisco Martinez Soriano. Catedrático Departamento Anatomía y Embriología de Universidad de Valencia.

- Francisco Blanco Antona. Jefe Sección Unidad Cirugía Colorrectal de Hospital Clinico Universitario de Valladolid.

- Luis Sánchez-Guillén. Unidad Cirugía Colorrectal de Hospital General Univesitario de Elche.

- Gianluca Pellino. Unidad Cirugía Colorrectal de Hospital Universitario y Politécnico la Fe de Valencia.

- Vicente Pla Martí. Unidad de Cirugía Colorrectal de Hospital Clínico y Universitario de Valencia.

- David Moro Valdezate. Unidad de Cirugía Colorrectal de Hospital Clínico y Universitario de Valencia.

- Jorge Sancho-Muriel. Unidad Cirugía Colorrectal de Hospital Universitario y Politécnico la Fe de Valencia.

Each of the 6 formoled cadavers will be used for a dedicated table of dissection.

Three attendees and one instructor and one supervisor will be assigned to each dissection table.

The fresh cadaver will be placed in the centre of the lab room and will be used as example/guide for the attendees.

Dynamic course. At each of the stations/dissection tables, which will be assigned a consecutive number along with allocated attendees before starting the course, the following steps will be routinely followed:

* First: video demonstration presented by one of the directors, supervisors or instructors
* Second: fresh cadaver dissection performed by one of the instructors on the fresh cadaver, to serve as an example for the attendees. This dissection will be displayed live on an HD screen to facilitate view and comprehension of the manoeuvres.
* Third: dissection by the attendees of the formoled cadavers at each station. The supervisor responsible of each station will guide and help the attendees in performing the dissection correctly.
* Fourth: interactive discussion at each table/station, including assessment of the dissection and errors.

PROGRAM: CADAVER DISSECTION

Applied surgical anatomy:

**Friday 14 December 2018**

**8:30-10:30**

***- Complete mesocolic excision for right-sided colon cancer. D3 right hemicolectomy. (Alvaro Garcia-Granero and Matteo Frasson)***

* Identification of right retroperitoneal structures
* Applied anatomy – mobilization of right colon flexure
* Kocher manoeuvre
* Identification and surgical application of *fascia of Fredet* and *fascia of Treitz*
* Anatomical variations and central ligation of ileocolic vessels
* Description of anatomy and surgical approaches to the gastrocolic trunk of Henle
* Surgical approaches to the superior mesenteric vein

**10:30-12:30**

***- Complete mesocolic excision of the transverse colon. (Alvaro Garcia-Granero and Alfonso Valverde-Navarro)***

* Surgical approaches to the lesser sac
* Applied anatomy – omentectomy
* Dissection and central ligation of middle colic artery and vein

**12:30-14:30: Lunch time**

**14:30-16:00**

***- Complete mesocolic excision of the splenic flexure. (Alvaro Garcia-Granero and Vicente Pla Martí)***

* Anatomy and embryology of the splenic flexure
* Anatomical variations of vascular arcades of the splenic flexure
* Surgical options to mobilize the splenic flexure

**16:00-17:30**

***- Complete mesocolic excision of the left colon. Left hemicolectomy and sigmoidectomy (Alvaro Garcia-Granero and Luis Sanchez-Guillen and Gianluca Pellino)***

* Identification of left retroperitoneal structures
* Different surgical approaches (lateral-to-medial and medial-to-lateral) to the mesocolon and inferior mesenteric artery vs inferior mesenteric vein.
* High tie and low tie of the inferior mesenteric artery.
* Ligation of inferior mesenteric vein below the body of pancreas.
* Importance of preserving the venous arcade of the left colic vein with the inferior mesenteric vein.
* Anatomic description of the mesenteric plexus, superior hypogastric plexus

**17:30-19:00**

***- Total mesorectal excision down to the levator plate (Alvaro Garcia-Granero and David Moro Valdezate)***

* Denonvilliers’ fascia in men
* Septum recto-vaginal in women

**19:00-20:00**

***- Surgical anatomy of the lateral pelvic compartment.(Alvaro Garcia-Granero and Francisco Martinez-Soriano and Francico Blanco)***

* Main pelvic spaces and fasciae. Lateral pelvic compartments.
* Main areas at risk of surgical injury of the pelvic autonomic nerves.
* Three main areas of pelvic lymphadenectomy.
* Vascularization of the *pelvis minor*.

**Saturday 15 December 2018**

**10:00-11:30**

***- Surgical anatomy of the anal canal and anorectal spaces. Anorectal sepsis. (Alvaro Garcia-Granero and Jorge Sancho Muriel)***

**11:30-13:00**

***- Surgical anatomy and posterior access to the retrorectal space. Anatomy of pudendal nerve (Juan Garcia-Armengol)***

**13:00-14:30**

***- Flaps in colorectal surgery. Reconstructive surgery after abdominoperineal excision, and simple/complex flaps in proctology and perineal surgery (Jose Vicente Roig-Vila)***

**14:30-14:45**

**End of course and awarding of diplomas.**

Signed by:

- Alvaro Garcia-Granero. Unidad Cirugía Colorrectal de Hospital Universitario y Politécnico la Fe y Prof. Anatomía y Embriologia. Universidad de Valencia.

- Matteo Frasson. Unidad Cirugía Colorrectal de Hospital Universitario y Politécnico la Fe y Prof. Anatomía y Embriologia. Universidad de Valencia.

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- Alfonso Valverde Navarro. Director Departamento Anatomía y Embriología de Universidad de Valencia.

- Francisco Martinez Soriano. Catedrático Departamento Anatomía y Embriología de Universidad de Valencia.

- Eduardo Garcia-Granero. Jefe de servicio de Cirugia General y del Aparato Digestivo de Hospital Universitario y Politécnico la Fe. Universidad de Valencia.