



INTERNATIONAL WORKSHOP IN AORTIC TECHNIQUES (Open/Endo): FROM AORTIC VALVE TO DISTAL AORTA

TOPIC	STATION NUMBER	STATION	FACULTY	EDUCATIONAL ISSUES
ENDO - PMEG*	1	PMEG thoracoabdominal *	Dr. Timarán / Antonello/ Palmero / Sirgo	Physician Modified Endografts (PMEG) for thoracoabdominal aortic disease: creation FEVAR-PMEG & implantation in a 3D model with x-Rays
	2	PMEG arch *	Dr. Timarán/ Palmero / Sirgo	Physician Modified Endografts (PMEG) for arch aortic disease: creation PMEG & implantation in a 3D model with x-Rays
OPEN root/valves	3	Valve sparing root replacement	Dr. Sioris	Valve-sparing technique (David) in a animal heart (swine/cow) : step-by-step
	4	Minimal Invasive Biobentall	Dr. Juez / Heredia	BioBentall (Konnect Resilia / French Technique) in an animal heart (swine/ cow). Minimal invasive tools.
	5	Aortomitral infection: Commando technique	Dr. Quintana	Commando technique (or variants like hemicommando, with root replacement) for aortomitral curtain disease. Step-by-step in an animal heart (swine/cow).
	6	Aortic annulus enlargement (anterior / posterior) + TAVI explantation	Dr. Vázquez	Aortic annulus enlargement anterior (Bo Yang, Nicks, Nuñez, Manouguian) and/or posterior (Konno). Step-by-step in an animal heart (swine/cow).
	7	Open Atrial Transcatheter Mitral Valve Replacement in MAC	Dr. Heredia	Open Transcatheter mitral replacement in mitral annulus calcification (MAC) in an animal heart (swine/cow): step-by-step. Additional issues: limitations, planning, techniques, tips & tricks.
OPEN arch/ thoracoabdominal	8	Clinical cases in Open complex Aorta (arch/DTA/TAAA): planning, pitfalls, tricks.	Dr. Oo	Presentation of clinical cases of open arch, descending thoracic or thoracoabdominal surgeries. Interactive discussion about how to plan, practical tricks, potential pitfalls. Learning from complications.
	9	Open Type 4 - TAAA. Infected EVAR (explantation & biological conduit).	Dr. Schmidli	Open Type IV Thoracoabdominal aneurysm repair (TAAA) & EVAR infection (explantation and creation of biological pericardial conduit for aortic replacement) in an artificial surgical simulator with flow.
	10	Elephant Trunk (Frozen & classical)	Dr. Sioris	Elephant trunk implantation in an artificial surgical simulator + angioscopy. Different technical options for Frozen (FET): off-the-shelf, home-made FET, (b)SAFER. Options for classical elephant trunk (Siena, straight tube). Considerations AMDS.



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ENDO basic	11	EVAR / TEVAR: methacrylate model + electronic simulator	Dr.Garriboli / Schmidli	Basic endovascular techniques for EVAR and TEVAR. Introduce to the endograft characteristics (different platforms) and delivery & step-by-step implantation in a methacrylate model (direct vision +/- angioscopic view). Presentation of a clinical case (EVAR and TEVAR), endograft selection and procedure step-by-step in a electronic simulator.
	12	DICOM viewers: basic planning endovascular aortic procedures	Dr. Gallardo	Endovascular aortic basic planning: tools (MPR, centerline, 3D-VR) and strategy for sizing & planning (TEVAR / EVAR). Use DICOM viewers (Horos, 3mension and/or Endosize)
ENDO advanced: ARCH	13	Single Inner Branched TEVAR zone 0-2: TBE - Gore		Characteristics of TBE-Gore graft and its delivery. How to plan. Practical delivery in a electronic simulator.
	14	Single Unibody Branched zone 2 TEVAR: Castor/ Cratos -MicroPort		Characteristics of Castor/Cratos graft and its delivery. How to plan. Practical delivery in a methacrylate model (direct view +/- angioscopy). Expanded use of Castor/Cratos as a bail-out.
	15	Full arch - HECTOR - MicroPort		Characteristics of Hector graft and its delivery. How to plan. Practical delivery in a methacrylate model (direct view +/- angioscopy , if available)
	16	Full arch NEXUS - Artivion		Characteristics of Nexus graft and its delivery. How to plan. Practical delivery in a flow-model.
	17	Full arch - Cook	Dr. Hernando	Cook platform for full arch (zone 0 with inner branches): different options, delivery. Advanced planning for arch (3mension or similar). Clinical cases.
	18	Partial arch - Cook	Dr. Sala	Cook platform for partial arch (zone 1-2, Fenestrations-scallops): different options, delivery. Advanced planning for arch (3mension or similar). Clinical cases
ENDO advanced: THORACOABDOMINAL	19	Off-the-shelf BEVAR: T-BRANCH Cook	Dr. Hernando	Characteristics of T-branch graft and its delivery. How to plan. Practical delivery in a methacrylate model (direct view +/- angioscopy) step-by-step (conventional or sequential fashion).
	20	Thoracoabdominal Planning (F/BEVAR): Cook		Advanced planning for thoracoabdominal endograft (3mension viewer). Custom-made Cook platform for thoracoabdominal endograft. Available FEVAR electronic simulator.



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TAVI	22	Balloon Expandable TAVI: Sapien		Characteristics of Sapien valve and its delivery. How to plan in TAVI. Practical delivery (step-by-step). Electronic simulator (if available). Clinical cases (easy and challenging cases) & complications
	23	Balloon Expandable TAVI - Meril		Characteristics of Myval valve and its delivery. How to plan in TAVI. Practical delivery (step-by-step). Electronic simulator (if available). Clinical cases (easy and challenging cases) & complications
	24	Self-expandable TAVI: Evolut		Characteristics of Evolut valve and its delivery. How to plan in TAVI. Practical delivery (step-by-step). Electronic simulator (if available). Clinical cases (easy and challenging cases) & complications
	25	Self-expandable TAVI: Navitor		Characteristics of Navitor valve and its delivery. How to plan in TAVI. Practical delivery (step-by-step). Electronic simulator (if available). Clinical cases (easy and challenging cases) & complications
	26	Self-expandable TAVI: VitaFlow Liberty®		Characteristics of VitaFlow Liberty® (MicroPort®) valve and its delivery. How to plan in TAVI. Practical delivery (step-by-step). Electronic simulator (if available). Clinical cases (easy and challenging cases) & complications
New technologies & Adjuncts	27	Intravascular Ultrasound : aortic and intracardiac tool		Intravascular ultrasound devices. Application to aortic and cardiac procedures.
		Endoanchors for EVAR/TEVAR		Endoanchors application in EVAR/TEVAR procdures: concept, materials, simulator.
		Augmented reality & 3D printing for surgical planning	A. Gómez de Cádiz. Instituto de Biomecánica de Valencia (IBV)	Application of the augmented reality & 3D printing as a tool for surgical planing in aortic diseases. Virtual reality glasses utility for educational or clinical purpose.
		Surgical adjuncts (sutures, hemostatics, surgical energy devices)		Characteristics, indications and potential pitfalls in some surgical adjuncts (sutures, hemostatics, surgical energy devices)

■ **Coordinators: Dr. J.Sirgo / Dr. C.Domínguez**

■ **Stations open-close: 9-13h, 14-18h**

Location: Hospital Universitari i Politècnic La Fe, Valencia

Av/ Fernando Abril Martorell, 106. Valencia (Spain)

Location: *Experimental Radiology Platform (Level -1, Tower A)