



TOPIC	STATION NUMBER	STATION	FACULTY-INDUSTRY	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 (French Technique) in an animal heart (swine/cow). Minimal invasive tools.
	5	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).
OPEN arch/ thoracoabdominal	6	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.
	7	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.
	8	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	9	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.
	10	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	11	Single Inner Branched TEVAR zone 0-2: TBE - Gore	GORE	Characteristics of TBE-Gore graft and its delivery. How to plan. Practical delivery in a electronic simulator.
	12	MicroPort arch platform: Castor-Cratos, Hector, Talos	B-ENDO	Characteristics of Castor/Cratos/ Hercules/Talos 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.
	13	Full / partial arch - Cook	Dr. Hernando	Cook platform for full arch (zone 0 with inner branches or zone 2): different options, delivery. Advanced planning for arch (3mension or similar). Clinical cases.
ENDO advanced: THORACOABDOMINAL	14	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).
	15	Thoracoabdominal Planning (F/BEVAR): Cook	COOK	Advanced planning for thoracoabdominal endograft (3mension viewer). Custom-made Cook platform for thoracoabdominal endograft. Available FEVAR electronic simulator.



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TAVI	16	Balloon Expandable TAVI - Meril	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.
	17	Self-expandable TAVI: Evolut	MEDTRONIC	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.
	18	Self-expandable TAVI: Navitor	ABBOTT	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.
	19	Self-expandable TAVI: VitaFlow Liberty®	PALEX	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	20	Endoanchors for EVAR/TEVAR	MEDTRONIC	Endoanchors application in EVAR/TEVAR procedures: concept, materials, simulator.
		Augmented reality & 3D printing for surgical planning	A. Gómez de Cádiz. Instituto de Biomedicina de Valencia (IBV)	Application of the augmented reality & 3D printing as a tool for surgical planning in aortic diseases. Virtual reality glasses utility for educational or clinical purpose.
		Surgical adjuncts (sutures, hemostatics, surgical energy devices)	JOHNSON & JOHNSON	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 of all workshops (except ENDO-PMEG): Exhibition Hall (Tower H, Floor -1)

Location of ENDO-PMEG workshop: Experimental Radiology Platform (Tower A, Floor -1)