

VENUE	Academic Teaching Hospital University of Frankfurt, Asklepios Clinic Langen, Germany
DEPARTMENT	Department of Vascular Surgery
RESPONSABILITY	Prof. Dr. Konstantinos Donas, Head of the Department of Vascular Surgery and Director of Vascular Research Centre
PATRONAGE	SEACV, Spanish Society of Vascular Surgery
TIME PERIOD	June 2020-June 2021
CONTENT OF THE CURRICULUM	<ul style="list-style-type: none"> • Active assistance in operations with focus on endovascular procedures including CAS/Repair of aneurysms, visceral, peripheral and crural interventions. • Research activities (Aim: 3 pubmed-listed first authorships, presentation of the findings at SEACV Annual meeting and VEITH Symposium)
PRECONDITION FOR THE APPLICATION OF INTEREST	Specialization in Vascular Surgery, German language skills are welcome, consent of the Director of the Clinic, detailed CV.

RESEARCH PROGRAM

1. In vitro evaluation of chimney grafts
(International collaboration with Professor Dr K. Yeung)

The silicone model has a single layer of ultraviolet-cured silicone mimicking the thickness of the aortic wall but stiffer in order to avoid collapse. The model can be connected to a pulsatile pumping system (60 beats per minute) at a systolic/diastolic pressure of 140/60 mm Hg and fluid temperature of 37°C.

Tests will focus on a comparison of the Endurant in IFU vs OL conditions in conjunction with chimney grafts:

1. Regarding diameter of chimney grafts:
Evaluation and comparison of 6mm (IFU) vs 5mm (OL) for BECS as chimney grafts with renal indication (Advanta/VBX and Begraft +)
2. Regarding the presence or absence of an infrarenal neck:
Evaluation and comparison of the performance of the 3 above mentioned types of 6 mm balloon expandable covered stents in different types of hostile necks: 4mm length -2mm length infrarenal neck (IFU) vs no neck (OL)
3. Regarding the number of the used chimneys in relation to the different types of hostile necks:
Single chimney (IFU) vs triple chimneys (OL) in conical, tapered, reversed and angulated necks based on preoperative CTAs of already treated patients.
4. Creation of an arch chimney model and test possible arch chimney configurations with the Nevia thoracic stent graft.

The results (gutters areas, presence of contrast medium) will be evaluated by an independent Radiologist and after statistical evaluation from Hospital's statistician will be published in peer-reviewed journals with high IF.

2. Conduction of case-controlled studies under the patronage of University of Frankfurt in peripheral arterial disease (results will be published as first authorships)
3. Participation at national and international workshops about complex EVAR
4. Sizing and Planning of complex endovascular repair of hostile necks
5. Coverage of the costs to participate at national/international meetings