

1. Fellowship Information		Year (1) Rasic fell	owshin in cardia	ac anesthesia					
				caediac anesthesia					
2. Institution Name		Heart Center Leipzig	d (chowship ii)	cacaiae anesaiesia	-				
	Address	Struempellstrasse 39	,04289 Leipzig						
				en.	1				
3. CEO / Chair Name	Country	German	Joerg	City Last name	Leipzig Ender				
5. CEO / Cilali Name		First name Email	inerg.ender@	medizin uni-lein	Phone	0049.34	11 865 1439		
4. Programme Director(s)		First name	Anna		Last name	Flo Forn			
41 Togramme Director(5)		Board Certification(s)		Spanish Board	east name		•		
		EACTAIC membership		Yes	If yes, membership's number		101012		
		Email		r@medizin.uni-le		Phone	0049 341 865 1439		
4. Programme Director(s)		First name	Rajni		Last name	Singh			
		Board Certification(s)		MCI India					
		EACTAIC membership		Yes	If yes, membership's number		2513		
		Email	rajni.singh@i	medizin.uni-leipzi	g.de	Phone	0049 341 865 1439		
		Mailing Address	Heart Center Leip	-		Fax			
			Street	Struempellstrasse 39			1-		
			Country	Germany 4289	Region		Saxony		
Will the Brearamme directo	r daunto i	ufficient time to prov	Zip code		amme and supervision for the fello	nur 2			
will the Flogramme directo	ii devote :	Voc	lue substantiane	adership to the progr	anime and supervision for the reac	/ws:			
Will the Programme directo	or review t	he fellows' clinical exp	erience logs at lea	st quarterly and verif	y completeness and accuracy?				
		Yes			, ,				
Does the national/internation	onal regul	atory authority(s) reco	gnizes the institu	utional CTVA Fellowsh	ip Programme?				
	_	Yes		EACTAIC accreditatio	n				
			explain						
Completion of the program	nme will be	e acknowledged by the	e Department of A	Anaesthesia and Inten	sive Care at the host centre in junc	tion with Eu	ropean Association of Cardiothoracic Anaesthesiolo	gy and Intensive Care (EACTAIC) Candidate's requirements	
		Yes							
5. Candidate's requiremen	nts								
The candidates must be bo		ed or board eligible ac	cording to Europ	ean residency prograr	mme standards				
	Ï	Yes							
Language requirements		B2	Comments	Official German B2 le	evel followed by a medical language	test by the	saxony medical association		
Specific requirements towar	rds the at	tending fellow		A completed speciali	sation in anaesthesia from home o	ountry or an	eligibility for the same is mandatory for the program	nme.	
							2 level and has to clear a medical language examinat		
							ner requirements for acquiring the german "Berufser		
					own expense, before the final fello per email and Skype) as well as the		ect can be signed. During this period the candidate is	s guided by the	
				(1	, , , , , , , , , , , , , , , , , , , ,				
6. General Programme Inf									
Aims, goals and objectives of									
							netic care including preoperative diagnostics and po		
actively for acquiring the EAC	TAIC TEE	certification in the cou	irse of the fellows	hip. After completing	the programme the participant wi	ll be able to p	provide anaesthesia in complex cardiovascular surgi	cal procedures and to perform and interpret corresponding TEE and TTE images	
Preferred Duration		One obligatory train	ing year in Cardia	r Angertheria fellowe	ad with an "antional" cocond waar	in Advanced	Cardiac Anaesthesia, ICU and paediatric cardiac ana	or thoria	
Freierica Daration					with an optional second year		Cardiac Arraestriesia, ico ariu paediatric cardiac aria	estre ia	
					or prolonged periods of secondment to ot	ner divisions / o	lenartments		
Preferred Programme Training	g	Start	January	terrupted by frequent and/	or prolonged periods of secondment to other	ner divisions / c	Separtments. December 1		
Preferred Programme Training Number of Positions Per Year		Start 2	January	1	End	her divisions / c			
	ır	2	January Type of fellows	1 hip training available	End	her divisions / c	December 1		
Number of Positions Per Year If clinical, will the fellows be a	r allowed to	2 work with the patien The candidate will be	January Type of fellows ts under supervis supervised with 1	1 hip training available ion :1 coverage till the tin	End me the communication as well as cl	linical abilitie	Olinical / Clinical Research Yes s allow him or her to work independently under ind	rect supervision (minimum of 3 months direct 1:1 and 3 months indirect supervision).	
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2.9. Facusion M., Maltingian C., Gardade J., et al., Anaschheida for patients undergoing wentricular activative companions. Audit New 2007; 2:16-177, https://doi.org/10.1016/j.jpa.2012.06.001
30. Gard G., Senti F., Zahlary W. et al., Impact of the poot sensible care unit opening home for fast-theid success in certifies usages, 2017; 3:155-164, https://doi.org/10.2017/ib.0017/313131313109-2
30. Gard G., Senti F., Zahlary W. et al., Impact of the poot sensible care unit opening home for fast-theid success in certifies usages, 2017; 3:155-164, https://doi.org/10.2017/ib.0017/31313131313109-2
31. Gardan C., Senti F., Zahlary W. et al., Impact of simulation of the control of th

Resources	Yes / No	Days in week	Number
Total cardiothoracic and vascular ward beds	Yes	7	240
Number of ICU beds dedicated to CTV patients	Yes	7	24
Is there an emergency department in which cardiothoracic patients are managed 24 hours a day?	Yes	7	
An adequately designed and equipped post-anaesthesia care unit for cardiothoracic patients located near the operating room suite?	Yes	5	
Is there monitoring and advanced life support equipment representative of current levels of technology?	Yes	7	
Hybrid Operating Rooms	Yes	5	2
Cardiac Operating Rooms	Yes	7	7
Thoracic Operating Rooms	No		
Vascular Operating Rooms	No	5	1
Catheterisation Labs	Yes	7	4
Electrophysiology Labs	Yes	5	4
Pulmonology Labs	No	5	1
Interventional Vascular Suits	Yes	5	1
Separate CVICU Facility	Yes	7	1
Animal Laboratory for research purposes	Yes	5	1
Outpatient Clinic for perioperative evaluation of patients undergoing cardiothoracic and vascular procedures	Yes	5	1
24-hours acute pain service available for patients undergoing cardiac, thoracic and vascular procedures	Yes	7	1
Meeting Rooms	Yes	7	4
Classrooms with visual and other educational aids	Yes	7	3
Study areas for fellows	Yes	7	1
Office space for faculty members and fellows	Yes	7	5
Diagnostic facilities	Yes	7	1
Therapeutic facilities	Yes	7	1
24-hour laboratory services available in the hospital	Yes	7	1
Cardiac stress testing	Yes	5	2
Cardiopulmonary scanning procedures	Yes	7	2
Pulmonary function testing	Yes	5	1
Computers and IT support	Yes	7	
Appropriate on-call facilities for men and women	Yes	7	

9. Clinical Skills and Responsibilities

.
Will your Programme offer a 12-24 months of fellowship education in fundamental clinical skills of medicine relevant to the practice of CTVA?

If yes, for each rotation or experience below, specify the duration (in months, four weeks = one month) during the 12-24 months of education in fundamental clinical skills

Cardiac Surgery without CPB finimally-Invasive Cardiac Procedu Interventional Cardiac Catheterization (e.g. TAVI, Mitraclip, TriClip, PFO/ASD closure) Heart, Lung, and Heart/Lung Transplants Pulmonary Resection Tracheo-Bronchial Surgery Interventional vascular procedures leurological monitoring during major vascular surgery Rotaions in Number of performed produces/basic rotations Number of performed produces/advanced rotations 150 / year (10 mont naesthesia for major supra-inguinal vascular procedure 50 TEE and TTE (2 weeks) onal 3-6 months TEE onal 3-6 months optional rotation surgical ICU / PACI Extracorporeal perfusion technology (CPB, EC ptional 3 months ional 3 months

II all fellows entering the CTVA Pro	gramme complete each of the fundamental clinical skills of requirements?	Yes
If no. explain		

n the clinical anaesthesia setting, in	studing nights and weekends, will faculty members at any time direct perioperative CTVA care, involving fellows, for more than two anaesthetizing locations simultaneously? No
If Yes, describe	
Clinical Responsibility	Extension of clinical tasks and responsibilities (ie. Working under indirect supervision) will depend on the fellow's individual clinical performance

List any other rotations (along with	their duration, in mor	nths) offered in the		icit reliows realiffing.					
									1
Will advanced subspecialty rotation		sponsibility and lea	rning opportunities?				Yes		L
Maximum Time in Non-Clinical Activ	rities				Depending on the fellow	and his/her research	interest, 10% working	gtime	
10. Financial Statement				Is a second contract of the second					
An employment contract will be sign		e	Yes	6 months probation period					
Accommodation options are provid Transportation/travel options are pr			No Yes						
Monthly Salary	Amount	4500.00	Currency	Euro					
This opportunity is not funded by t		No		upport for the candidate:				Host centre (monthly salary)	
			Others						
11. Educational and Academic Prog	gramme								
Didactic Sessions									
Will faculty members' attendance be	monitored?			Yes					
Will fellows' attendance be monitor				Yes					
Will attendance be mandatory for fa	_			Yes					
Will attendance be mandatory for fe				Yes					
Who of the following will provide content at conferences? Check all that apply. Anaesthesiology faculty members from this department				Yes					
Anaesthesiology faculty members fr				Yes Yes					
Non-anaesthesiologists from the pr				no					
Non-anaesthesiologists from the pa				no					
Visiting faculty members	in the putting sites			Yes					
Drug/industry representatives				no					
Fellows				Yes					
Others (specify): Click here to enter	text.								
What will be the frequency of the fo	llowing educational to	opics in the progra	mme's schedule?						
	Weekly	Bi-weekly		Monthly	Quarterly		Semi-annually	Annually	Fellows' attendance would be monitored
Critical care appraisal of the literature				yes					Yes
(i.e., journal dub)				,					
Quality improvement (M&M, QA)		Yes							Yes
Board review (e.g., oral exams, keywords)									yes
Grand rounds	Yes								Yes
Other (specify) Click here to enter text.									
Monthly - TEE grand round; Monthly	research round; Mo	onthly - fellowship	teaching round						
Formal Course Work Available in		In house: US gu	ided puncture, TTE ar	nd TTE (basic and advanced), Lung US,	Basic Rea, Simulations Training	and ALS courses are o	offered for fellows free	e of charge	
Extra-Institutional Educational Conf	erence Support:		German work group	" Cardiac Anesthesia " annual confere	ence meeting; 40h German Cardi	panesthesia theory co	ourse; EACTAIC TEE Ac	creditation/Advanced Course; Financial support from HCL	
				1					
The Opportunioty for Exchange with			No						
In the Previous 5 Years, Fellows were	1st or 2nd Author O	On: Peer-Reviewed		1 Review					
Abstracts Book Chapters	0	Other Publicat		1 Case Report					
Dedicated Research Time	According to require			1 case Report					
In the Previous Year, Fellows present				meeting		Yes			
Patient Care	CanMEDS competen	ncy framework			_	10			
Patient Care Technical Skills	CanMEDS competen	ncy framework			Settings/ Activities	10		Assessment Method(s)	
Technical Skills		ncy framework			Settings/ Activities	103		Assessment Method(s)	
Technical Skills 1. I. General patient assessment and risk	cestimation		to laboratory tests and						
Technical Skills	c estimation	with use of appropia			ervision. National and internation	nal guidelines. Daily		Assessment Method(s) evaulation according to clinical standard operating procedusessessment interview.	ure. Interactive case
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Area of Knowledge	Settings/ Activities	Assessment Method(s)
1. Basic Training		
1.I. General patient assessment and risk estimation (Level A)		
Physiology of the heart, the circulatory system and the respiratory system. Basic knowledge of embryological development of cardiac, thoracic and vascular structures.	self study, theoretical interactive discussion and clinical teaching rounds	Knowledge Assessment Interview
Pre-operative invasive and non-invasive assessment of cardiac diseases and interpretation of results induding electrocardiogram (ECG), chest X-ray, echo-cardiography, cardiac stress testing, coronary angiography, cardiac magnetic resonance imaging (cMRI), and computer tomography (CT).	Clinical teaching rounds and self study	Knowledge Assessment Interview
Pre-operative pulmonary evaluation and interpretation of the results, including arterial blood gas and acid-base analysis, pulmonary function tests, oximetry and thoracic imaging.	Clinical teaching rounds and self study, theoretical interactive discussion	Knowledge Assessment Interview
Patient information and informed consent including medico-legal aspects, appraisal of discernment and consent capacity.	Clinical teaching rounds	Knowledge Assessment Interview
Principles of risk and outcome assessment and relevant scoring systems (e.g., EuroSCORE).	Self study and clinical teaching rounds	Knowledge Assessment Interview
II. Anesthesia management – cardiac surgery (Level A)		
Knowledge of anesthetic agents and their effects on cardiac function and in patients with cardiac diseases.	Self study and clinical teaching rounds	Knowledge Assessment Interview

Principles of intraoperative pharmacology and relevant medication, including positive inotropes, chronotropes, vasoconstrictors, vasodilators, and anti-arrhythmic agents.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Principles of patient blood management, including specific diagnostic tools, application of relevant medication and blood products.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Principles of basic hemodynamic monitoring and relevant techniques, such as arterial pressure measurement central venous pressure.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Principles of relevant neuromonitoring techniques (e.g., processed electro-encephalography (pEEG), near- infrared sonography (NIRS), somato-sensible evoked potentials (SSEP), motor evoked potentials (MEP).	Self study and clinical teaching rounds	Knowledge Assessment Interview
Principles of conventional cardiopulmonary bypass techniques. Principles of myocardial preservation. Effects of cardiopulmonary bypass on human physiology, organ function, and pharmacology.	Self study, extracorporeal perfusion technology Rotation and on site examination	Knowledge Assessment Interview and observation procedural skills
Basic principles of common procedures in cardiac surgery, such as coronary artery bypass grafting (CABG).	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
III. Anesthesia management – thoracic surgery (Level A)		
I. IV. Anesthesia management – major vascular surgery (Level A) V. Post-operative care/ Critical care (Level A)		
Scoring systems in the ICU (e.g. the Sequential Organ Failure Assessment (SOFA), the Simplified Acute Physiology Score (SAPS), the Confusion Assessment Method (CAM)-ICU).	Self study and clinical teaching rounds	Knowledge Assessment Interview
Etiology, pathophysiology, diagnosis and treatment plans / bundles according to international standards for spedific critical conditions in cardiothoracic and vascular surgery patients.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Circulatory failure (heart failure, shock, cardiorespiratory arrest, cardiac arrhythmias, ischemic heart disease, pulmonary embolism, bleeding complications, vasoplegia).	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Anaphylaxis.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Respiratory failure, including adult respiratory distress syndrome (ARDS), pulmonary edema, pneumothorax, pneumonia.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Acute kidney injury and failure.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Gastrointestinal failure, peritonitis, pancreatitis, liver failure, non-occlusive mesenteric ischemia (NOMI).	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Neurological failure (delirium and coma, cerebral ischemia and bleeding).	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Airway and chest injuries.	On site examination and discussion	Knowledge Assessment Interview
Aortic injuries.	Self study, on site examination and discussion	Knowledge Assessment Interview
Infectious diseases (systemic inflammatory response syndrome (SIRS) and sepsis, including sepsis bundle strategy).	Self study and clinical teaching rounds	Knowledge Assessment Interview
Coagulation disorders (disseminated intravascular coagulopathy (DiC), heparin resistance, heparin-induced thrombocytopenia, severe bleeding, transfusion reaction).	Self study, clinical teaching rounds and on site examination and discussion	Knowledge Assessment Interview
Equipment and apparatus (equipment design, physics, standards, limitations; e.g. non-invasive and invasive postoperative ventilation, continuous renal replacement therapy devices, non-invasive and invasive hemodynamic monitoring).	On site examination and discussion	Knowledge Assessment Interview
Indication, contraindication, drug selection, complications: sedation, anesthesia, analgesia, neuromuscular relaxation, nutrition.	On site examination and discussion	Knowledge Assessment Interview
Multimodal and pre-emptive analgesia concepts.	Self-study, Clinical teaching rounds, on site examination and discussion (PACU/ICU)	Knowledge Assessment Interview
Weaning and extubation criteria.	Self-study and on site examination and discussion (PACU / ICU)	Knowledge Assessment Interview
Transfer and discharge criteria.	Self-study and on site examination and discussion (PACU / ICU)	Knowledge Assessment Interview
Indications for and application of extracorporeal circulation in intensive care patients for cardiac and / or respiratory support (e.g., ECMO).	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
VI. Basic peri-operative echocardiography (Level A) Principles of basic theory of peri-operative cardiac echocardiography according to the European Association **Geography**	On site examination and supervision the first 125 exams; Self study; monthly TEE/TTE round;	TEE and TTE simulation, knowledge Assessment Interview, Logbook
of Cardiovascular Imaging (EACVI) / EACTAIC process of certification for TEE. 1. VII. Anesthesia management – interventional procedures in cardiology (Level A)	clinical teaching rounds	
Basic principles of common procedures in interventional cardiology, such as coronary angiography, ablation, transcatheter aortic valve replacement (TAVR), and mitral / tricuspid clipping with relevant complications.	On site examination; Self study; clinical teaching rounds	Knowledge Assessment Interview, Logbook
Procedural sedation guidelines from the European Board of Anaesthesiology (EBA)/ European Society of Anaesthesiology (ESA).	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Monitoring and capnography use according to the safety recommendations from EBA.	Self study, on site examination and discussion	Knowledge Assessment Interview
VIII. Extracorporeal perfusion management (Level A) Basic principles of extracorporeal perfusion.	solf study Clinical torching rounds and the artifact discussion.	Knowledge Assessment Interview
	self-study, Clinical teaching rounds and theoretical discussion with perfusionist	
Types of extracorporeal circuits, e.g., cardiopulmonary bypass (CPB), extracorporeal membrane oxygenation (ECMO).	self-study, Clinical teaching rounds and theoretical discussion with perfusionist	Knowledge Assessment Interview
Types, composition and mechanisms of cardioplegic solutions.	self-study, Clinical teaching rounds and theoretical discussion with perfusionist	Knowledge Assessment Interview
Cardioprotective measures. Safety recommendations for extracorporeal circulation from the European Board of Cardiovascular Perfusion	self-study, Clinical teaching rounds and theoretical discussion with perfusionist self-study, Clinical teaching rounds and theoretical discussion with perfusionist	Knowledge Assessment Interview Knowledge Assessment Interview
(EBCP). 2. Advanced training	, , , , , , , , , , , , , , , , , , ,	
I. Anesthesia management – cardiac surgery (Level A)		
Principles of advanced hemodynamic monitoring and relevant techniques, such as use of the pulmonary artery catheter, continuous cardiac output monitoring and measurement.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Principles of modified cardiopulmonary bypass (minimized CPB, left-heart CPB) and the off-pump revascularization technique.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Principles of advanced procedures in cardiac surgery and clinical management of affected patients (valve surgery and thoracic aortic surgery, including ascending, transverse, and descending aortic surgery with circulatory arrest).	Self study, clinical teaching rounds and on site examination and supervision	Knowledge Assessment Interview
Principles and state of the art of mechanical support including intra-aortic balloon pumps, and extracorporea membrane oxygenation.	Self study, clinical teaching rounds and on site examination and discussion	Knowledge Assessment Interview
Current state of temporary and long-term mechanical drculatory support (ventricular assist devices, total artifidal hearts).	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Principles of use of inhaled pulmonary vasodilators (nitric oxide (NO), prostaglandins). Principles of fast-track surgery.	Self study, clinical teaching rounds and on site examination and discussion Self study, clinical teaching rounds and on site examination during PACU rotation	Knowledge Assessment Interview Knowledge Assessment Interview
Principles or last-track surgery. 2.II. Anesthesia management – thoracic surgery (Level A)	יטים איניטיץ, בווויוניםו נפסג וווויון rounius and on site examination during PACU rotation	Knowledge Assessment Interview
2. III. Anesthesia management – major vascular surgery (Level A)		
Knowledge of perioperative management of TEVAR and EVAR. Knowledge of the existing of environmental and evaluation of the existing of the exi	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Knowledge of the principles of perioperative management of lumbar drainage for aortic interventional procedures.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview Knowledge Assessment Interview
Excellent knowledge of the principles of spinal cord protection during surgical and interventional aortic	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview

Excellent knowledge of the principles of cerebral function monitoring.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
2. IV. Post-operative management/ Critical care (Level A)		
Knowledge of cardiac and thoracic physiology.	Self study, clinical teaching rounds	Knowledge Assessment Interview
Postoperative cardiac critical care, including analgesia, sedation and ventilation.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Postoperative care and analgesia after thoracic surgery.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
An understanding of the management of cardiac pacing modes.	Self study, clinical teaching rounds and on site examination and discussion	Knowledge Assessment Interview
An understanding of extracorporeal membrane oxygenation and other devices used for mechanical circulatory support.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
VII. Advanced perioperative echocardiography (Level A)		
Advanced level of knowledge in peri-operative cardiac echocardiography according to the EACVI/ EACTAIC	Self study, monthly TEE/TTE rounds, clinical teaching rounds and daily on site examination	Knowledge Assessment Interview, Logbook
process of certification guidelines.	Sen study, monthly TEQ TE Tourids, Clinical teaching rounds and daily on site examination	Nituwieuge Assessitient interview, Luguuuk
2. VIII. Heart and/or lung transplantation (Level A)		
Understanding of the physiology and clinical presentations of end-stage heart and lung disease and surgical options for their management.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Understanding of the principles of heart transplantation and dinical management of affected patients.	Self study, clinical teaching rounds and on site examination	Knowledge Assessment Interview
Knowledge of current limitations of organ transplantation and efforts to increase the suitable donor pool.	Self study	Knowledge Assessment Interview
Understanding of the multidisciplinary nature of patient evaluation and listing for transplantation.	Self study, clinical teaching rounds and LVAD/Transplant weekly round	Knowledge Assessment Interview
Knowledge of the principles of donor optimization, management and allograft retrieval.	Self study	Knowledge Assessment Interview
Knowledge of the principles of ex-vivo heart and lung perfusion.	Self study	Knowledge Assessment Interview
Understanding of the physiology of the denervated organ.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Understanding of the surgical conduct of heart transplantation and knowledge of intra-operative and immediate postoperative care, including stability of induction, ventilation, oxygenation, hemodynamic support, and allograft and noncardiac organ protection.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Understanding of primary graft dysfunction and indications for mechanical circulatory support.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Understanding of the surgical options for lung transplantation, including minimally invasive lung transplantation and various intraoperative extraorporeal support mechanisms.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Knowledge of intra-operative and immediate postoperative care, including protective ventilation, oxygen delivery, hemodynamic support, indications for inhaled NO and other pulmonary vasodilators, allograft and non-pulmonary organ protection.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Knowledge of the principles of primary lung dysfunction and conservative and extracorporeal treatment options, including indications for and techniques of ECMO.	Self study and clinical teaching rounds	Knowledge Assessment Interview
Understanding of immunosuppressive regimens and the role of postoperative infections and sepsis.	Self study and clinical teaching rounds	Knowledge Assessment Interview
2. IX. Research module (Level A)		
Principles of clinical trials, including design, end points, inclusion / exclusion criteria, reporting requirements.	Self study and monthly research round	Logbook
Understanding of Good Clinical Practice (GCP) requirements for clinical research involving patients.	GCP course	Logbook
Understanding of European and specific national ethics frameworks, including research ethics applications, clinical regulatory frameworks and hospital site-specific assessment.	Self-study and GCP course	Logbook
Principles of sample size and study power determinations and basic statistical evaluation	Self study and monthly research round	Logbook
Principles of patient and data confidentiality agreements.	Self study and monthly research round	Logbook
Understanding tools for data collection, analysis and reporting.	Self study and monthly research round	Logbook
Principal international basic science priorities in the field of cardiac anesthesia.	Self study	Logbook
Ethics and practicalities of biological sample collection, storage and biobanking	Self study	Logbook
Principles and ethics of scientific publishing.	Self study and monthly research round	Logbook
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TEL ASSESSMENT							
The Programme Director will evaluate each fellow every 3 months as per EACTAIC regulations https://www.eactaic.org/wp-content/uploads/2020/11/EACTA-Three Monthly-Evaluation_09.11.2020.pdf							
Assessment tools							
360-degree evaluations Yes Clinical skills evaluations							
Personal reports from the faculty Yes Self-assessment by Fellow							
Learning goals for the next three months Yes Feedback from Fellows							
A logbook will be available	Yes	Reports of Evaluation will be available	Yes				

The Programme Director will give an appraisal for each fellow every 3 months
The faculty and trainee should agree a joint evaluation both fellow's progress and the training programme, and devise a plan for addressing any perceived difficulties or deficiencies.
Training programmes should encourage fellows to provide a written confidential evaluation of the programme.

External evaluation / assessment will be held as per EACTAIC regulations

The centre will be able to maintain a register of those fellows who have entered and successfully completed a training programme in order to continue its accreditation as a training centre

There will be regular opportunities for Fellows to provide confidential written evaluations of the faculty and program to the EACTAIC Education Chair

Periodic evaluation of patient care (quality assurance) is mandatory. Subspecialty trainees in cardiac, thoracic, and vascular anesthesia will be involved in continuing quality improvement and risk management

Trainees in cardiac, thoracic and vascular anesthesia will actively participate in the periodic evaluation and reassessment of the Fellowship training goals and objectives
Should unforeseen circumstances arise such as personal conflict between a Fellows and tutors, this should be reported immediately to the Chair of the Education Committee.

At the end of the training period, the centre would acknowledge in writing successful completion of a fellow training.

13. Practice-based Learning and Improvement

1. Briefly describe the main learning activities regarding non-clinical skills and their assessment during the fellowship
The fellows is encouraged to design and participate in original clinical research under active supervision of the fellowship directors and other faculty members. He/ She is also encouraged and supported to present his /her research at national and international meetings. The mentor also guides the fellowship parameter of presentations for the weekly departmental teaching sessions, and helps in the developing effective public speaking skills. Feedback is provided to the fellowship director by all the faculty members which acts as the basis of identification of weaknesss and strengths and subsequent efforts to enhance the non clinical aspects of training.

Briefly describe one planned learning activity in which fellows engage to: identify strengths, deficiencies, and limits in their knowledge and expertise (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activity in which fellows engage to: identify strengths, deficiencies, and limits in their knowledge and expertise (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and perform appropriate learning activities (self-reflection and self-assessment); set learning and improvement goals; and identify and impro

ribe how fellows will receive and incorporate formative evaluation feedback into daily practice get the opportunity to discuss the daily cases and TEE images on an informative basis with a member of the faculty and will get a personal feedback at the end of the day. A 360 degrees feedback will take place every 4 months and results will be dis

5. Briefly describe one example of a learning activity in which fellows engage to develop the skills needed to use information technology to locate, appraise, and assimilate evidence from scientific studies and apply it to their patients' health problems. The description should include

The fellow will be assigned to review topics of importance for the clinical teaching rounds, with active help and review by the mentor during the preparation and presentation

6. Briefly describe how fellows will participate in the education of patients, families, students, fellows, and other health professionals

w will actively engage with the patient and family during rotation in the PAC Clinic, at the beginning with direct followed by remote supervision. He will be encouraged to participate in clinical teaching of students and interns once he has acquired the requisite training and mastery of the

1. Briefly describe one learning activity in which fellows demonstrate competence in communicating effectively with patients and families across a broad range of socioeconomic and cultural backgrounds, and with physicians, other health professionals, and health-related agencies the fellow is encouraged to participate in the monthly M and M meetings and to present and discuss cases conducted by him with support of the supervising faculty

2. Briefly describe one learning activity in which fellows demonstrate their skills and habits to work effectively as members or leaders of a health care team or other professional group. In the example, identify the members of the team, responsibilities of the team members, and how te

th increasing skills and experience fellow will be handling the fast track PACU where he will lead a team of nurses and will be actively engage with the supervisors as well as members of other clinical specialities (radiology, surgery, etc) to diagnose and manage all complications arising in the acute

4. Briefly describe how fellows will be provided with opportunities to maintain comprehensive, timely, and legible medical records, if applicable

The fellow will be advised and trained in comprehensive perioperative documentation archiving system for the intraop anaesthetic and TEE records as well as saving of the TEE studies in the departmental TEE archives (Tom Tec)

By reviewing each intraoperative anaesthesia protocol before saving it electronically after completion of every case

6. Briefly describe how fellows will create and sustain a therapeutic relationship with patients, engage in active listening provide information using appropriate language, ask clear questions, provide an opportunity for comments and questions, and demonstrate sensitivity and responsive

to cultural differences, including awareness of their own and their patients' cultural perspectives.

The candidate will be involved in the pre-operative screening process by attending the consultation hours. After an initial period where the candidate will be accompanied by a member of the staff the candidate will be expected to work independently with a back-up on call

15. Professionalism

Briefly describe the learning activity(ies), other than lecture, by which fellows demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles, including compassion, integrity, and respect for others; responsiveness to patient needs supersedes self-interest; respect for patient privacy and autonomy; accountability to patients, society, and the profession; and sensitivity and responsiveness to a diverse patient population, including to diversity in gender, age, culture, race, religion, disabilities, and sexual orientations.

The candidate will be encouraged and guided to become increasingly responsible for the whole process in accompanying a patient through the perioperative process. During this process she or he will be continuously indirectly or directly supervised by an experienced member of the staff or his

15. Systems-based Practice
1. Describe the learning activity(ies) through which fellows achieve competence in the elements of systems-based practice: working effectively in various health care delivery settings and systems, coordinating patient care within the health care system; incorporating

considerations of cost-containment and risk-benefit analysis in patient care; advocating for quality patient care and optimal patient care systems; and working in inter-professional teams to enhance patient safety and care quality

The candidate will be regularly informed of and encouraged to follow changes in practices as and when recommended by inter hospital speciality groups incorporating the principles of evidence based medicine as well as cost effectiveness in a way to improve patient outcomes as well as risk benefit

result

16. EACTAIC Site Visit (for 1-day)

Dates proposed for the visit (at least 3)

27/06/2022 or 08/08/2022 or 26/09/2022

I hereby accept the regulations of the Hospital Visiting especially to take in charge the travel costs and the hotel accommodation of the 2 reviewers on the most reas

ent or the authorised deputy To be completed by the Head of depart

Please fill in all required fields and send to eactaic@aimgroup.eu and EACTAIC Education Chair



European Association of Cardiothoracic Anaesthesiology and Intensive Care

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Institution	Name	Hear	Center Leipzig			
Address	Strue	mpells	raße 39, 04289 Leipzig, Germany			
11441 055						
Preferred I	Duratio	n	□ 12 months for basic training year □ 12	months for adva	nced training	g year
Type of fell	owship	prog	amme offered:			
	Cardioth	oracic	nd Vascular Anaesthesia			
	Cardiova	ascular	Anaesthesia			
	Cardioth	oracic	naesthesia			
	Cardiac	Anaest	esia only			
	Thoracio	and V	scular Anaesthesia			
Type of fell	owship	train	ng available:			
	Clinical	only				
	Clinical	/ Basic	Research			
	Clinical	/ Clinic	l Research			
	Basic Re	esearch	only			
	Clinical	Resear	n only			
T 1 - 4 - 4						
Legal state	ment					
The applying anaesthesia.	g trainee	shoul	be either a licensed anaesthesiologist or h ⊠ Yes □ No	nave a completed	l training co	ertificate in
Working hou	ırs direc	ctives v	ll be respected according to the prevailin	g national law.	⊠ Yes	□ No
The head of	the depa	artmen	approves the programme of the hosting of	centre.	⊠ Yes	□ No
host centres	for the I	EACT	CEO or an authorized representative of the IC Fellowship Training Programmes to find the fellow with the Fello	ree the former to	o have a ded	licated minimum
The program	ıme dire	ectors,	aculty members and trainees would main	tain a good stan	ding EACT	AIC membership.
Declaration	of fina	ancial	ources			
The financia hosting centr			EACTAIC Fellowship will be regulated by. ⊠ Yes □ No	by an individual	agreement	between the
The hosting	centre d	eclares	the financial sources policy. × Yes	□ No		
can offer mo	nthly sa	lary pa	sting centres into two categories as followments and <u>Category (B)</u> : The hosting centre be supported by an educational grant, scl	ntres which canr	not provide	salary payments;
Preferred Fe	ellowship	Categ	ory: ⊠ Category A □ Cat	tegory B		
The candida	tes can o	choose	etween the hosting centres in the two cate	egories. Yes	⊠ No	



European Association of Cardiothoracic Anaesthesiology and Intensive Care

A signed consensus between the hosting centre and trainee regarding both parties' financial arrangement and responsibilities will be delivered to EACTAIC. ☐ Yes ⊠ No EACTAIC will be notified about the signed consensus between the hosting centre and trainee regarding both parties' financial arrangement and responsibilities at the being of the training. An employment contract will be signed with the candidate ⊠ Yes □ No Accommodation options are provided ☐ Yes ⊠ No Transportation/travel options are provided □ Yes ⊠ No 4500 Monthly Salary: Amount Currency Euro The centre does not fund this opportunity □ Yes Source of financial support for the candidate: ☑ Host centre (monthly salary) ☐ Candidate's centre ☐ Scholarship ☐ Educational grant ☐ Award ☐ Candidate's expenses □ Others Click here to enter text. Please, describe Programme Training and facilities of the host centre The fellow should be authorized to provide direct patient care during their training programme under the ⊠ Yes □ No supervision of the programme director and faculty members, "i.e., hands-on practice 2. Uninterrupted training for 12 months for the "basic" training programme. ⊠ Yes □ No Uninterrupted training for 12 months for the "advanced" training programme. ⊠ Yes □ No At least two faculty members should be involved. 4. ⊠ Yes □ No Evaluation of the fellows should be done every four months or end of each advanced rotation module. □ No ⊠ Yes Every four months, a complete evaluation report should be submitted to the EACTAIC Education Chair. ⊠ Yes □ No $[https://www.eactaic.org/wp-content/uploads/2020/11/EACTA-Three-Monthly-Evaluation_09.11.2020.pdf] \\$ 7. A portfolio/logbook will be performed monthly and signed by the programme director ⊠ Yes □ No 8. The programme director and a minimum of two faculty members declare in writing that they will dedicate ⊠ Yes П № sufficient time (i.e., minimum 10% of working time) to attend to their responsibilities. hours per week 9. At least one of the faculty is transesophageal echocardiography (TOE) certified (e.g., EACVI-EACTAIC joint ⊠ Yes □ No accreditation, Association of Cardiothoracic Anaesthesia and Critical Care (ACTACC) or National Board of Echocardiography (NBE)) **10.** The hosting centre has: 10.1. Available intensive care unit (ICU) of postoperative anaesthesia care unit (PACU) for cardiac, thoracic ⊠ Yes □ No and vascular patients. 10.2. Designed and equipped post-anaesthesia care unit (PACU), high-dependency unit (HDU), or an ICU ⊠ Yes □ No incorporating a PACU. 10.3. Available emergency room (ER) 24 hrs. a day (24/7). ⊠ Yes □ No 10.4. Operating rooms (ORs) to be adequately equipped for cardiac, thoracic and vascular procedures ⊠ Yes □ No (advanced haemodynamic monitoring, TOE, neuromonitoring, coagulation monitoring, blood-saving (salvage) devices).



European Association of Cardiothoracic Anaesthesiology and Intensive Care

	able an outpatient Clinic for perioperative evaluation of patients undergoing cardiac, thoracic, and	⊠ Yes	⊔ No
	lar procedures		
proce	urs acute pain service available for patients undergoing different cardiac, thoracic, and vascular	⊠ Yes	□ No
	able Meeting Rooms	⊠ Yes	□ No
	able classrooms with visual and other educational aids	⊠ Yes	□ No
	able study areas for fellows	⊠ Yes	□ No
	•	⊠ Yes	
	e volume of cases and training in the followings;		
10.10.1.	A minimum of 100 cardiac cases using cardiopulmonary bypass (CPB) during the basic training year will be available per fellow per year.	⊠ Yes	□ No
	year will be available per fellow per year.	Click here	e to
10.10.2.	30% of the cases are non-coronary artery bypass grafts (CABG).	⊠ Yes	□ No
		Click here	e to
		enter tevt	
10.10.3.	An "optional" 3-to-6-month advanced cardiac anaesthesia training module will be available for	⊠ Yes	□ No
	each fellow if the centre offers the advanced training year.	Click here	
		antar taxt	
10.10.4.	A programme director should personally perform a minimum of 100 cardiac anaesthesia cases	⊠ Yes	□ No
	per annum.		
10.10.5.	Training in thoracic anaesthesia (A minimum of 25 cases per fellow or 1.5 months during the	□ Yes	⊠ No
	basic training year and an "optional" 3-to-6-month advanced training module if the centre offers		
10 10 6	the advanced training year).		
10.10.6.	Training in supra-inguinal vascular anaesthesia. (A minimum of 25 cases or one month per fellow during the basic training year and an "optional" 3-to-6-month advanced training module	□ Yes	⊠ No
	if the centre offers the advanced training year).		
10.10.7.	Training in interventional vascular (TEVAR, EVAR) and neuromonitoring.	⊠ Yes	□ No
10.10.8.	Accessibility for training in a dedicated intensive care unit (ICU) or postoperative anaesthesia	⊠ Yes	□ No
10.10.0.	care unit (PACU) for caring of cardiac, thoracic and vascular patients for one month during the		□ No
	"basic" training year and an "optional" 3-to-6-month advanced training module if the centre		
	offers the advanced training year.		
10.10.9.	Training in anaesthesia for interventional catheterization laboratory procedures for two weeks	⊠ Yes	□ No
	during the "basic" training year and longer if the centre offers an advanced training module in		
	cardiac anaesthesia.		
10.10.10.	Training in electrophysiology study (EPS) procedures (pacemakers, implanted	⊠ Yes	□ No
10.10.11	cardioverter/defibrillator (ICDs), mapping, ablations, etc.).		-
10.10.11.	Training in the Extracorporeal perfusion technology with a perfusionist in the management of	⊠ Yes	□ No
	patients who have mechanical support in situ, e.g., intra-aortic balloon pump (IABP),		
	extracorporeal membrane oxygenation (ECMO) and ventricular assist device (VAD) for two weeks during the basic training year.		
10.10.12	Training in the Echocardiography Lab mainly on transthoracic echocardiography for two weeks	⊠ Yes	□ No
10.10.12.	during the basic training year.		Пио
10.10.13.	Basic training in TOE will be available.	⊠ Yes	□ No
10.10.14.	Advanced training in TOE will be available.	⊠ Yes	□ No
	Accessibility for training on the basic and/or clinical research	⊠ Yes	□ No
	These requirements will be applied to all new fellows	⊠ Yes	□ No
	T. T	<u> </u>	
Decision	☐ Approve ☐ Reject		
Conditions	□ Yes □ No		
If yes, please de	Glick here to enter text.		

Please fill in all required fields and send them to $\underline{eactaic@aimgroup.eu} \text{ and EACTAIC Education Chair}$

HERZZENTRUM LEIPZIG

Herzzentrum Leipzig GmbH - Postadresse: 04281 Leipzig

Abteilung für Anästhesiologie und Intensivmedizin Chefarzt Prof. Dr. med. Jörg Ender

Tel.: 0341 / 865-1439 Fax: 0341 / 865-1820 Anaesthesie.herzzentrum@heliosgesundheit.de

Leipzig,30.05.2022

Dear Mohamed,

We would hereby like to apply to the EACTAIC Educational committee for reaccreditation of Heart center Leipzig as a center for advanced cardiac anesthesia fellowship of the EACTAIC.

Heart center Leipzig is one of the leading tertiary cardiac centers in Germany and offers the complete diagnostic and treatment spectrum for all diseases of the cardiovascular system.

We have been one of the pioneering centers for the fellowship program in Europe. In the last 13 years, 18 fellows have been trained till date in cardiac anesthesia and perioperative echocardiography at the Heart center Leipzig, all of whom have gone on to practice as successful experts in the field of cardiac anesthesia in reputed centers of cardiac surgery in different parts of the world.

Seite 1 / 2

HERZZENTRUM LEIPZIG

We also confirm hereby that the hospital management and departmental head have agreed that the fellowship directors will dedicate 10% of the working time towards the fellowship program.

Thank you for your time and consideration,

Dr. med. Massimiliano Meineri

Co-Chair

Department of Anesthesiology and Intensive Care Medicine

Rajni Singh

Fellowship Director

Department of Anesthesiology and Intensive Care Medicine

Dear Mohamed,

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We also confirm hereby that the hospital management and departmental head have agreed that the fellowship directors will dedicate 10% of the working time towards the fellowship program.

Thank you for your time and consideration,

Ms Dr Flo-Forner

Ms Rajni Singh

(Co-directors, Fellowship Program, Heart center Leipzig)

EACTAIC Adult Cardiac Anaesthesia Fellowship Programme

Department of Anesthesiologie and Intensive Care Medicine, Heart Center Leipzig

	Monday	Tuesday	Wednesday	Thursday	Friday
OR 1	Minimalinvasive heart valve surgery	Minimalinvasive heart valve surgery	Off-pump bypass surgery (OPCAP, MIDCAB)	Minimalinvasive heart valve surgery	Off-pump bypass surgery (OPCAP, MIDCAB)
	Off-pump bypass surgery (OPCAP, MIDCAB)	Conventional valve surgery	Conventional coronary bypass surgery	Conventional valve surgery	Conventional coronary bypass and valve surgery
OR 2	Pediatric cardiac surgery				
	Pediatric cardiac surgery	Conventional valve surgery	Pediatric cardiac surgery	Conventional coronary bypass surgery	Off-pump bypass surgery (OPCAP, MIDCAB)
OR 3	Off-pump bypass surgery (OPCAP, MIDCAB)	Minimalinvasive heart valve surgery	Off-pump bypass surgery (OPCAP, MIDCAB)	Conventional coronary bypass surgery	Conventional coronary bypass and valve surgery
	Off-pump bypass surgery (OPCAP, MIDCAB)	Conventional coronary bypass surgery	Conventional coronary bypass surgery	Conventional coronary bypass surgery	Off-pump bypass surgery (OPCAP, MIDCAB)
OR 4	Conventional coronary bypass and valve surgery	Conventional coronary bypass and valve surgery	LVAD	Minimalinvasive heart valve surgery	Conventional valve surgery
	Off-pump bypass surgery (OPCAP, MIDCAB)	Conventional coronary bypass surgery	Conventional coronary bypass surgery	Off-pump bypass surgery (OPCAP, MIDCAB)	Conventional coronary bypass surgery
OR 5	Conventional coronary bypass and valve surgery	Combined valve surgery	Conventional coronary bypass and valve surgery	Conventional coronary bypass and valve surgery	Conventional coronary bypass and valve surgery

	Minimalinvasive heart	Conventional coronary	Conventional valve	Conventional coronary	Conventional valve
	valve surgery	bypass surgery	surgery	bypass surgery	surgery
OR 6	Combined valve	Conventional coronary	Combined valve	Conventional coronary	Off-pump bypass
	surgery	bypass surgery	surgery	bypass surgery	surgery (OPCAP,
					MIDCAB)
	Conventional valve	Minimalinvasive heart	Conventional coronary	Conventional valve	Conventional valve
	surgery	valve surgery	bypass surgery	surgery	surgery
Hybrid OR 8	Interventional Aortic	Interventional Aortic	Interventional Mitral	Interventional Mitral	Interventional Aortic
•	Valve Procedures	Valve Procedures	and Tricuspid Valve	and Tricuspid Valve	Valve Procedures
	(TAVR) x 4	(TAVR) x 4	Procedures x 3	Procedures x 3	(TAVR) x 4
Hybrid OR 9	Interventional Aortic	Interventional Aortic	Interventional Aortic	Interventional Aortic	Interventional Aortic
,	Valve Procedures	Valve Procedures	Valve Procedures	Valve Procedures	Valve Procedures
	(TAVR) x 4	(TAVR) x 4	(TAVR) x 4	(TAVR) x 4	(TAVR) x 4
Others	7:05 Early daily	7:05 Early daily	7:05 Early daily	7:05 Early daily	7:05 Early daily
	discussion	discussion	discussion	discussion	discussion
	17:00 Monthly –	17:00 Monthly	Biweekly 6:30	7:00 weekly – clinical	
	research and	echocardiography (TEE	interdisciplinary	sessions	
	investigation session	and TTE) session	morbidity & mortality		
			session		

This is an example of a weekly schedule during the fellow's cardiac anesthesia rotation period at the hosting center. Each day our department provides anesthesia for 6 cardiac surgery operating rooms and 2 Hybrid OR.