

## Application for Hosting EACTA Thoracic Exchange Training Programme

<b>Institution's Name</b>	Consorcio Hospital General Universitario de Valencia		
<b>Address</b>	Avenida Tres Creus n°2		
<b>Department</b>	Anesthesiology, Critical Care	<b>Website</b>	https://chguv.san.gva.es
<b>City</b>	Valencia	<b>ZIP code/Postal code</b>	46014
<b>Country</b>	Spain	<b>Phone</b>	963 13 18 00
<b>Fax</b>	Click here to enter text.	<b>Email</b>	mgranellg@hotmail.com

## Programme Supervisor

<b>Name / Surname</b>	Manuel Granell Gil
<b>Board Certification(s)</b>	Associate Professor of Anaesthesiology
<b>Title/Affiliation</b>	Chief Section of Anaesthesiology

## Published Researches in PubMed

- M. Granell et al. Review of analgesia techniques for post-thoracotomy pain. **Journal of the Spanish Society of Pain**, 1999. Vol 6: p. 207-26.
- FIRST UPDATE ON **Anaesthesiology and Resuscitation in thoracic surgery**. Granell Gil M., editor. 2001. ISBN: 84-607-3510-9.
- M. Granell et al. Respiratory and hemodynamic effects of epidural alfentanil after thoracic surgery. **Revista Española de Anestesiología y Reanimación** 2002; 49: 191-6.
- M. Granell et al.. Postoperative pain after thoracic surgery (Chapter 7). L.M. Torres editor, **POSTOPERATIVE PAIN**. Editorial Ergón, Madrid, 2003. ISBN: 84-8473-220-7; p. 133-154.
- M. Granell et al. Postoperative pain after thoracic surgery (Chapter 7). L.M. Torres Morera editor, **POSTOPERATIVE PAIN FOR SURGEONS**. Editorial Ergón, Madrid, 2003. ISBN: 84-8473-221-5. p. 127-46.
- García-Guasch R<sup>1</sup>, Campos JH, **Granell M**, Peña JJ. **Applications for bronchial blockers in thoracic surgery**. Rev Esp Anestesiol Reanim. 2007 Nov;54(9):547-55.
- M. Granell. "Preoperative evaluation: point of view of anaesthesiologist". **Manual of Anaesthesia and Perioperative Medicine in thoracic surgery**. Editorial Ergón, Madrid 2009; pág. 73-80.
- PROVHILO trial: a multicentre randomised controlled trial. **Lancet** 2014 Aug 9;384(9942):495-503.
- Prospective External Validation of a Predictive Score for PPC. **Anaesthesiology**. 2014;121(2):219-31.
- **Manual of Anaesthesia and Perioperative Medicine in thoracic surgery**. Editorial Ergón, Madrid 2009; pág. 73-80.
- PROVHILO trial: a multicentre randomised controlled trial. **Lancet** 2014 Aug 9;384(9942):495-503.
- Prospective External Validation of a Predictive Score for PPC. **Anaesthesiology**. 2014;121(2):219-31.

<b>EACTA/ESA/other societies membership</b>	EACTA Thoracic Subcommittee Member (from 2013). ESA Member (from 2001)		
<b>Email</b>	mgranellg@hotmail.com		
<b>Mailing Address</b>	Avenida Baleares n°16 pta 6. Valencia 46023. Spain.		
	Avenida Baleares n°16 pta 6		
Street			
City	Valencia	Region	Comunidad Valenciana
Country	Spain	City/Zip code	46023
Phone	+34 609232031	Fax	Click here to enter text.

Will the Programme director devote sufficient time to provide substantial leadership to the programme and supervision for the fellows?  Yes  No

**Language requirements:** English or Spanish: 3 level of fluency (5-being "perfect"):

## Specific legal or other requirements of an attending trainee:

Anaesthesiology specialists., Good standing EACTS membership,  
 Certificate issued by the country of origin that proves that the interested party has not been convicted in his country for any offense against sexual freedom and indemnity, referred to in the Spanish law: article 13.5 of Organic Law 1/1996, of January 15, of Legal Protection of Minors. (send a copy in advance, we will need the original one).  
 Civil Liability insurance and health care insurance. (send a copy in advance, we will need the original one)  
 Copy of ID/Passport and the Degree certificate  
 When they arrive, they will get an identity card, so they have to bring an original "passport size" photo and they will also sign a confidentiality agreement.

<b>Preferred Duration</b>	<input type="checkbox"/> 1 week <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 3 weeks <input type="checkbox"/> 4 weeks <input type="checkbox"/> others	Please, describe
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Preferred Months	<input checked="" type="checkbox"/> January <input checked="" type="checkbox"/> February <input checked="" type="checkbox"/> March <input checked="" type="checkbox"/> April <input checked="" type="checkbox"/> May <input checked="" type="checkbox"/> June
	<input type="checkbox"/> July <input type="checkbox"/> August <input checked="" type="checkbox"/> September <input checked="" type="checkbox"/> October <input checked="" type="checkbox"/> November <input checked="" type="checkbox"/> December
Preferred Seniority Level	<input checked="" type="checkbox"/> Junior <input type="checkbox"/> Experienced <input type="checkbox"/> Very Experienced
Number of Positions Per Year	20

**Financial Statement**

**Accommodation is provided**  Yes  No

**Transportation/travel options are provided**  Yes  No

This opportunity is not funded by the centre  Yes  No

**Source of financial support for the candidate:**

- Host centre  
 Candidate 's centre  
 Scholarship  
 Educational grant  
 Award  
 Candidate's own expenses  
 Others

Please, describe

**Aims, goals and objectives of the Exchange Training Programme**

**To acquire technical skills** in preoperative assessment, anaesthesia, monitoring and postoperative care of thoracic surgery including both conventional thoracic surgery and video-assisted thoracoscopic surgery (VATS). This **two weeks' Training period** as **Observer** has the aim to improve the practical knowledge

**Clinical interests**

We are an Anesthesiologist Department with high experience in Thoracic Anaesthesia, especially in Airway management, Mechanical ventilation and Thoracic Analgesia.

**Lab interests**

We have an important laboratory to study some analysis related with thoracic surgery (e.g. inflammatory mediators, ...)

**Publications in PubMed**

- Dr. Manuel Granell Gil ; Dra. Ana María Broseta; Dr. Javier Morales; Dr. Jose Tatay Vivó; Dra. Elena Biosca. **PROANES MASTER CHAPTER: THORACIC SURGERY'S ANESTHESIA**
- Manuel Granell Gil. **CHAPTER : Difficult Airway management in Thoracic Anesthesia. MÁSTER online EN ACTUALIZACIÓN EN ANESTESIOLOGÍA, REANIMACIÓN Y TERAPÉUTICA DEL DOLOR.** Modalidad: Online Duración: 12 meses Titulación: Universidad CEU 60 créditos ECTS. Horas lectivas: 1.500h.
- Llau JV, Granell M, Jiménez MJ. **Management of antiaggregated and anticoagulated patients scheduled for thoracic surgery.** Recommendations for venous thromboprophylaxis. Postoperative care after thoracic surgery. Mert Şentürk editor. Springer. 2016. En prensa.
- Ricardo Guijarro Jorge, José Antonio de Andrés Ibáñez, Enrique Pastor Martínez, **Manuel Granell Gil . Book Chapter: History of anesthesia and thoracic surgery.** Manual de Anestesia y Medicina Perioperatoria en Cirugía Torácica . Ramón Moreno y Fernando Ramasco Editores. Barcelona. Ergon 2017. ISBN: 978-84-16732-14-2. Pág. 1-6.
- **Manuel Granell Gil, et al. Book Chapter: Bronchial blockers. Applications in thoracic surgery.** Manual de Anestesia y Medicina Perioperatoria en Cirugía Torácica . Ramón Moreno y Fernando Ramasco Editores. Barcelona. Ergon 2017. ISBN: 978-84-16732-14-2. Pág. 335-42.
- **DIRECTOR of the 1st WORKSHOP ON AIRWAY MANAGEMENT SIMULATION IN THORACIC SURGERY.** Valencia. 2013. University of Valencia (20 hours).
- **ASSOCIATE PROFESSOR (Anaesthesiology).** University of Valencia, from 26th September (2001) to 2017.
- **COORDINATOR OF THE COURSE ON "EXPERT AIRWAY MANAGEMENT" (25 ETCS. Duration: 6 months).** University of Valencia.

## Resources

Check if each of the following is available at your centre.

Resource	Yes	Number	Working days per week
Total thoracic ward beds		8	7
Number of ICU beds dedicated to thoracic surgery patients		2	7
Post-anaesthesia care unit for thoracic patients	<input checked="" type="checkbox"/>	4	7
monitoring and advanced life support equipment	<input checked="" type="checkbox"/>	2	7
Assigned operating rooms for thoracic surgery	<input checked="" type="checkbox"/>	5	5
Available varied sizes of fiberoptic bronchoscopes	<input checked="" type="checkbox"/>	3	7
Available different tools for lung isolation (double lumen tubes, blockers, ...)	<input checked="" type="checkbox"/>	2	7
Available facilities for thoracic epidural/paravertebral blocks, truncal blocks, ultrasound guided blocks		2	7
Pulmonology Labs	<input checked="" type="checkbox"/>	1	7
Interventional Pulmonology facility	<input checked="" type="checkbox"/>	1	7
Outpatient Clinic for perioperative evaluation of patients undergoing thoracic procedures	<input checked="" type="checkbox"/>	1	7
24-hours acute pain service available for patients undergoing thoracic procedures	<input checked="" type="checkbox"/>	1	7
Meeting Rooms	<input checked="" type="checkbox"/>	2	7
Classrooms with visual and other educational aids	<input checked="" type="checkbox"/>	2	7
Study areas for trainees	<input checked="" type="checkbox"/>	2	7
Office space for faculty members and trainees	<input checked="" type="checkbox"/>	3	7
Diagnostic facilities	<input checked="" type="checkbox"/>	1	7
Therapeutic facilities	<input checked="" type="checkbox"/>	1	7
24-hour laboratory services available in the hospital	<input checked="" type="checkbox"/>	1	7

## Clinical Training

Thoracoscopic Surgery	3 hours/procedure	7 /week
Pulmonary Resection	4 hours/procedure	8 /week
Oesophageal Surgery	7 hours/procedure	0,5 /week
Tracheo-Bronchial Surgery	4 hours/procedure	1 / week
Interventional Pulmonology Procedures	2 hours/procedure	3 /week
Acute and Chronic Pain Management for thoracic patients	30 min/procedure	12 / week

## Academic Education

### Patient Care

Competency Area	Settings/Activities
Following standards for patient care and established guidelines and procedures for patient safety, error reduction, and improved patient outcomes.	Ok (Surgical check list)
Pre-operative patient evaluation and optimization of clinical status prior to the thoracic procedure.	OK
Interpretation of cardiovascular and pulmonary diagnostic test data.	OK
Haemodynamic and respiratory monitoring.	OK
Pharmacological and mechanical haemodynamic support.	OK
Peri-operative critical care, including ventilatory support and peri-operative pain management.	OK (e.g. NIV, CPAP, ...)
Providing anaesthesia care for patients undergoing thoracic surgery, including operations on the lung, oesophagus, and thoracic aorta.	Ok

### Medical Knowledge

Indicate the activity(ies) (lectures, conferences, journal clubs, clinical teaching rounds, etc.) in which trainees will demonstrate knowledge in each of the following areas. Also indicate the method(s) used to assess competence.

Area of Knowledge	Settings/Activities
Embryological development of the thoracic structures.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Pathophysiology, pharmacology, and clinical management of patients with respiratory disease, to include pleural, bronchopulmonary, neoplastic, infectious, and inflammatory diseases.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.

Area of Knowledge	Settings/Activities
Pathophysiology, pharmacology, and clinical management of patients with thoracic vascular, tracheal, oesophageal, and mediastinal diseases, to include infectious, neoplastic, and inflammatory processes.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Non-invasive pulmonary evaluation, to include pulmonary function tests, blood gas and acid-base analysis, oximetry, capnography, and pulmonary imaging.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Pre-anaesthetic evaluation and preparation of adult thoracic patients.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Peri-anaesthetic monitoring, both non-invasive and invasive (intra-arterial, central venous, pulmonary artery, mixed venous saturation, cardiac output)	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Pharmacokinetics and pharmacodynamics of medications prescribed for medical management of adult thoracic patients.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Pharmacokinetics and pharmacodynamics of anaesthetic medications prescribed for thoracic patients.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Oesophageal surgery, to include varices, neoplastic, colon interposition, foreign body, stricture, and tracheoesophageal fistula.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Pulmonary surgery, to include segmentectomy (open or video-assisted), thoracoscopic or open, lung reduction, bronchopulmonary lavage, one-lung ventilation, lobectomy, pneumonectomy and bronchoscopy, including endoscopic, fiberoptic, rigid, laser resection.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Post-anaesthetic critical care of adult thoracic surgical patients.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Pain management of adult thoracic surgical patients.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Quality assurance/ improvement.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.
Ethical and legal issues, and practice management.	Weekly Clinical Session of Anaesthesiology for specialists and residents. Weekly sessions for Simulation in anaesthesiology.

### Evaluation of Trainees

1. The Programme Supervisor will give an appraisal for each fellow following the observership.  Yes  No
2. The centre will be able to maintain a register of those fellows who have entered and successfully completed a training programme.  Yes  No

### Other Comments:

We are centre of reference in Spain to teach Thoracic Anesthesia to medical residents from all our country

To be completed by the Head of department or the authorised deputy.

Please fill in all required fields and send to [eacta@mci-group.com](mailto:eacta@mci-group.com)

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