

## CURRICULUM VITAE

### **Personal Information**

Name: Sermeus

First names: Luc, André

Date and place of birth: 16 of April 1961, Leuven

Address: Jennekensstraat, 59  
3150 Haacht

Citizenship: Belgian

Phone: +3216 / 60 35 78

E-mail: [luc.sermeus@uza.be](mailto:luc.sermeus@uza.be)

Marital status: Married: four children

### **Studies**

Doctor in medicine at the “KatholiekeUniversiteit Leuven” in 1989.

### **Certificates**

Specialist in Emergency Medicine (1995).

Certificate in Disaster Medicine and Disaster Management (1995).

### **PhD**

Neuro-anatomical studies in advanced techniques of ultrasound- guided peripheral nerve blocks for increasing quality, efficacy and safety, through objective evaluation. University of Antwerp, Belgium 2017.

### **Employment and Experience**

Anesthesiology at the “University Hospital of Leuven” from 1989 to '92 and 1993 to '94.

Anesthesiology at the “Hôpital Cantonal Universitair” in Geneva (CH) from 1992 to '93.

Emergency Medicine at the “University Hospital of Leuven” from 1994 to 1995.

Anesthesiology at the “University Hospital St.Luc” (UCL) in Brussels during 4 months (1995).

Anesthesiology at the "Hospital St. Pierre" in Ottignies (UCL) with specialization in regional anesthesia (1996-97).

Anesthesiology at the "University Hospital Antwerp" (1997 to present). Special in clinical interest in regional anesthesia.

### **Published Journal Articles**

1992 Diagnosis of intra-operative pulmonary embolism confirmed by transoesophageal echocardiography: a case report.

**Sermeus L**, Van Hemelrijck J, Vandommele J, Van Aken H  
Anesthesia 1992 Jan;47(1):28-9

1993 Induktionqualität und Nebennieren-zindenfunktion. Einklinischer Vergleich von Etomidat-Lipuro und Hypnomidate.

Vanacker B, Wiebalck A, Van Aken H, **Sermeus L**, Bouillon R, Amery A  
Anesthesist 1993 Feb;42(2):81-9

1999 Seven-year review of requests for epidural blood patches for headache after dural puncture: referral patterns and the effectiveness of blood patches.

M.P. Vercauteren, V.H. Hoffmann, E. Mertens, **L.A. Sermeus** and H.A. Adriaensen.  
European Journal of Anesthesiology 1999, 16:298-303.

1999 Effects of beta-adrenergic tone on load dependent regulation of myocardial function in coronary surgery patients.

S.G. Dehert, Ph.J. Van der Linden, P.W. Ten Broecke, I.E. Rodrigus, **L.A. Sermeus**, A.C. Moulijn, and T.C. Gillebert  
Anesthesia and Analgesia 1999;89:835-42.

1999 Effects of Nicardipine and Urapidil on load dependent regulation of myocardial function in coronary surgery patients.

S. G. Dehert, Ph. J. Van der Linden, P. W. Ten Broecke, **L.A. Sermeus** and T. C. Gillebert  
Journal of Cardiothoracic and Vascular Anesthesia, (1999), 13:6, 677-683.

2000 Spinal morphine versus PCEA with Ropivacaine 0,1% / Sufentanil for analgesia after C-section.

Lamalfa M., Vereecken K., Coppejans H., **Sermeus L.**, Vercauteren M.  
The International Monitor 2000:12:S184

2003 Anaphylactoid reaction to hydroxyethylstarch during caesarean delivery in a patient with HELLP syndrome

Vercauteren, M.P., Coppejans, H.C., and **Sermeus, L.**  
AnesthAnalg, 2003; 96(3):859-61

2007 Patient information: an update of the "anaesthesia brochure"

Vandermeulen E, Hennart D, **Sermeus L**, Kremer Y, Bauve B, Demeere JL; Workinggroup of the SBAR/BVAR.

Acta Anaesthesiol Belg. 2007; 58(4):255-63.

2008 An individual approach to pain after day care surgery by a clinical pharmacist: preliminary findings of the APPI-study. J. Leys, **L. Sermeus**, G. Hans. Poster at IASP 2008

2009 Corrected scoliosis, cholinesterase deficiency and cesarean section: a case report. Roy Somers, Yves Jacquemyn, **Luc Sermeus** and Marcel Vercauteren. Case Report Med. 2009:957479. Epub 2009 Jun 23.

2010 The morbidly obese parturient: myths and facts. M. Vercauteren, **L. Sermeus**, H. Coppejans, Y. Jacquemyn. J Rom AnestTerapInt 2010 Vol. 17 Nr.1, 49-53

2010 Poster ESRA in Porto (Portugal). Neurosensory effects of Levobupivacaine 0,5% with epinephrine, Levobupivacaine 0,5% and Ropivacaine 0,75% in the cervical dermatomes after ultrasound guided interscalene block.

**L. Sermeus**, N. Bosserez, J. Liesmons, G. Hans, M. Vercauteren

2010 Poster ESRA in Porto (Portugal). Review Plexus Brachialis Blocks. K. Vermeylen, **L. Sermeus**, F. Soetens, M. Vandeveldde

2010 Non-anesthesiologist administration of propofol?

Barvais L; SARB board members.

Acta Anaesthesiol Belg. 2010

2011 Abstract European Journal of Anaesthesiology The influence of ultrasound-guided stellate ganglion block on postoperative pain after shoulder surgery: a case series

**L. Sermeus**, G. Hans, M. Vercauteren

2011 The application of ultrasound guided peripheral nerve blocks in conditions of chronic peripheral neurotic pain: how to obtain long-lasting analgesia?

G. Hans, **L. Sermeus**, J. Liesmons, M. Vercauteren.

European Journal of Pain 2011

2012 Editorial: "Nusing Aid Specialized in Anesthesia and Resuscitation (NASAR): why should we promote the involvement of anesthesia helping nurses within the current and future Belgian anesthesia field?" Barvais, **L. Sermeus**, V. Bonhomme

Acta Anesthesiologica Belgica 2012,63 (1), 1-2

2012 Abstract for invited speaker "Adjuvants in local anesthetics for peripheral nerve blocks: what is new?" **L. Sermeus**, M. Vercauteren, G. Hans

Invited speakers highlight paper ESRA Bordeaux. RAPM 2012, 37 Online suppl.

2012 Supraclavicular brachial plexus blocks: review and current practice.

Vermeylen K1, Engelen S, **Sermeus L**, Soetens F, Van de Velde M.

Acta Anaesthesiol Belg. 2012

2013 Clinical guidelines for the practice of peripheral nerve blocks in the adult.

**L. Sermeus**, A. Pirson, B. Breebaart, J. Decoster, E. Dereeper, Ph. Gautier, E. Guntz, JP Lecoq, Cl. Londot, P. Pandin, Th Pirotte, P. Van Houwe, P. Verelst, K. Vermeylen

Acta Anesthesiologica Belgica

2013 Intrathecal chloroprocaine vs. lidocaine in day-case surgery: recovery, discharge and effect of pre-hydration on micturition. B. Breebaart, A. Teune, **L.A. Sermeus**, M.P. Vercauteren

Acta AnaesthScand 2013

2014 Abstract: Semi-quantitative evaluation of neurosensory effects in the cervical dermatomes after an ultrasound guided interscalene block with low doses of different local anesthetics.

**L. Sermeus**, G. Hans, M. Breebaart, M. Vercauteren

RAPM 2014 vol: 39 iss: 5 SUPPL.1 p. e150-e151

2014 Abstract: Semi-quantitative comparison of neurosensory effects of levobupivacaine 0,5% in the cervical dermatomes after an ultrasound guided interscalene block combined or not with a stellate ganglion block.

**L. Sermeus**, G. Hans, M. Breebaart, M. Vercauteren

RAPM 2014, vol: 39 iss: 5 SUPPL.1 p. e150

2015 Regional analgesia techniques for spine surgery: a review with special reference to scoliosis fusion

Najoua Mokraï Benyahia, Ann Verster, Vera Saldien, Margaretha Breebaart, **Luc Sermeus**, Marcel Vercauteren. J Spine 2015

2015 Regional anaesthesia and postoperative analgesia techniques for spine surgery- a review

Najoua Mokraï Benyahia, Ann Verster, Vera Saldien, Margaretha Breebaart, **Luc Sermeus**, Marcel Vercauteren. Romanian Journal of Anaesthesia and Intensive Care 2015; 22; 25-34

2015 Compartment syndrome after resection of osteochondroma in the forearm of a child not masked by a continuous infraclavicular block. A case report

**L.A. Sermeus**, S. Boeckx, H. Camerlinck, J. Somville, M.P. Vercauteren

Acta Anaesth Belg 2015

2015 Abstract ESRA: The implementation of regional anesthesia block rooms in Belgium: a national survey.

Bindelle S, Lecoq JP, **Sermeus L**, Brichant JF.

2016 Thermal quantitative sensory testing to assess the sensory effects of three local anesthetic solutions used for interscalene block.

**L.A. Sermeus**, G.H. Hans, T. Schepens, N.M-L. Bosserez, M.B. Breebaart, C.J. Smits,

M.P. Vercauteren. Can J Anesthesia 2016

2017 Ultrasound-guided approach to nerves (direct vs tangential) and the incidence of intraneural injection: A cadaveric study. **L.A. Sermeus**, X. Sala-Blanch, J.G. McDonnell, C.A. Lobo, B.J.

Nicholls, G.J. van Geffen, O. Choquet, G. Iohom, B. de Jose Maria Galve, C. Hermans,

M. Lammens. Anaesthesia 2017

2017 Basic features and applicability of the « Preliminary Universal Surgical Invasiveness Score (pUSIS) »: a multi-center pilot study

P. Biro, **L. Sermeus**, R. Jankovic, N Savic, AH Onutu, D. Ionescu, G. Gurman

Accepted in Turkish Journal of Anaesthesiology and Reanimation

2018A low dose of three local anesthetic solutions for interscalene blockade tested by thermal quantitative sensory testing: a randomized controlled trial.

**Luc A. Sermeus**, Guy H. Hans, Tom Schepens, Kristien Wouters, Margaretha B. Breebaart, Carine J. Smits, Stuart Morrison and Marcel P. Vercauteren

J Clin Mon Comp 2018

2018 Effects of stellate ganglion block on analgesia produced by cervical paravertebral block as established by quantitative sensory testing: a randomized controlled trial

**Luc A. Sermeus**, Luc E. Vanlinthout, Guy H. Hans, Tom Schepens, Margaretha B. Breebaart, Veerle C. Verheyen, Carine J. Smits, Marcel P. Vercauteren  
Pain Medicine 2017

2018 Single point injection ultrasound-guided infraclavicular block: Where to inject? Review.  
N. Mintjens, **L. Sermeus**, S. Costello, K. Vermeylen.

International Journal Regional Anaesthesia 2018

### **Books & dvd**

2012 **Contributor** of the chapter "US guided Axillary block" in "Hadzic's Peripheral Nerve Blocks: Ultrasound-guided and classic techniques of regional anesthesia" by Admir Hadzic

2012 **Author** of the chapter "Surgical and anesthetic risks in patients with OSAS" **L. Sermeus**, A. Boudewyns in the book of J. Verbraecken on "Pneumologic disorders".

2013 **Author** and editor of the BARA DVD: "Ultrasound-guided regional anesthesia for the spine"

2015 **Author** and editor of a poster on "Ultrasound scanning technique of the spine"

### **Lectures and Workshops: national and international**

Symposium and workshop: "The difficult upper airway".

University Hospital Antwerp 2001, 2002, 2003, 2004, 2005

Co-organiser

Presentations: "The Emergency Airway Management" and "Airway devices"

2004 Member of scientific committee for the annual meeting of the SARB:

"Anesthesia and shorter hospital stay"

Chairman in "Organisational problems in short hospital stay"

Since 2008 organiser (and instructor) of the annual BARA Workshop "Ultrasound and Cadaver" in Brussels

2008 Lecture in Brussels, Antwerp and Arnhem (The Netherlands) "Anesthesia and OSAS"

2009 Chairman at the "Annual BARA meeting on Obstetric anesthesia" in Brussels

2009 Chairman at the "Annual SARB meeting" in Oostende (B)

2009 and 2010 Organiser (with Z. Kocielniak-Nielsen) of lectures and US workshops for the Romanian Society of Anesthesia and Intensive Care In Timisoara. Presentation of "Truncal blocks" and "Lower extremity blocks"

- 2010 Lecture at the "International Wintersymposium of Anesthesia" in Leuven (B):  
"Prevention and management of Local Anesthetic toxicity" en workshop : "Vascular access and Ultrasound"
- 2010 Lectures at the BARA annual meeting in Brussels: "Ultrasound imaging of the lumbar spine" and "Intraneural injections: Are they safe?"
- 2011 Associate faculty at the NWAC in Rome. Workshops on US-guided blocks.
- 2011 Faculty at the AOSRA in Bali (Indonesia).  
Lectures on "US-Guided Blocks in Chronic Pain Therapy", "Obstructive Sleep Apnea Syndrome (OSAS): Why give preference to RA" and "US-Guided Lower Extremity Blocks"  
Workshops on US-Guided Peripheral and Central Blocks.
- 2011 Faculty at the ESRA in Dresden (Germany).  
Lecture: "How to start Regional Anesthesia with US?". Pro-Con Debate: Contra; "The use of RA-techniques in upper and lower extremity injuries with a high possibility of Compartment Syndrome due to trauma or surgery".  
Workshops on US-Guided Blocks and Cadaver-workshop.
- 2011 Annual BARA congress in Brussel: Faculty. Workshop epidurale and US
- 2011 ESRA regional meeting in Ljubljana (Slovenië) Faculty. Lectures "Intraneurale injections" and "Brachiale Plexus Blocks".
- 2012 Lecture: "OSAS: pre- and perioperative problems"  
Pneumologie Lage Landen in Antwerp University Hospital .
- 2012 ESRA Winterweek in Grindelwald (CH): Lectures "Physics and artifacts of Ultrasound" and "OSAS: Why prefer regional anesthesia?" Workshops on PNB.
- 2012 Indoanesthesia in Jakarta (Indonesia)  
Lectures: Management of continuous peripheral nerve blocks.  
Workshops: US and lumbar spine, US demo "on realtime" patient in University hospital of Jakarta and workshop on lower extremity and US
- 2012 Invited Speaker ESRA in Bordeaux. Lecture: "Adjuvants in local anesthetics for peripheral nerve blocks: what is new?"  
Chairman pro and con debate: "Thoracic paravertebral block: do we need ultrasound?"  
Chairman in sessions: "Local anesthetics and toxicity" and "Ultrasonography is changing our practice in regional anesthesia"
- 2012 Invited speaker Timisoara. Lecture and workshop on regional anesthesia with ultrasound.
- 2013 Faculty WCRAFT in Sydney, Australia. Lecture on "Acute compartment syndrome and regional anesthesie". Workshops on regional anesthesie with ultrasound for upper and lower limb.

2013 Faculty Indoanesthesia in Jakarta, Indonesia. Lecture on “Adjuvants of local anesthetics: What is new?” Workshops on regional anesthesia with ultrasound for upper and lower limb.

2013 Invited speaker Anesthesia congress in Nis, Serbia. Lecture “Why use ultrasound in regional anesthesia?”.

2013 Workshop: Ultrasound guided regional anesthesia for lumbar spine blocks in chronic pain for at the WIP Benelux, University of Maastricht.

2013 1 day Course: „Datamining” organised by STATUA, University of Antwerp.

2013 Faculty ESRA Glasgow:

Lectures:

US upper Limb: Needle insertion and injection skills

Thermal quantitative sensory testing in regional anesthesia

How to start regional anesthesia with ultrasound

Chairman pro-con session: Intraneural injections

Instructor cadaver session.

2013 Five day Course: Methodology and statistics organized by FLAMES, Leuven

2013 Three day ESA Course: Masterclass in Scientific writing, Brussels

2014 Lecture: “OSAS: implicaties voor de anesthesist ”

Pneumologie in de Lage Landen: Antwerp University Hospital .

2014 Wintersymposium Leuven: Workshops with ultrasound on models

2014 Faculty Indoanesthesia in Jakarta:

lectures on „Acute compartment syndrome and regional anesthesia”, „Continuous brachial plexus blocks”, „How to start regional anesthesia with US”

2014 Zurich (CH) : Postgraduate lecture: Acute compartment syndrome and regional anesthesia

2014 Faculty ESRA Seville

Pro-con debate: UGRA in anaesthetized patients (con) & RA is superior to GA (pro)

Abstract presentations: “Semi-quantitative evaluation of neurosensory effects in the cervical dermatomes after an ultrasound guided interscalene block with low doses of different local anesthetics” & “Semi-quantitative comparison of neurosensory effects of levobupivacaine 0,5% in the cervical dermatomes after an ultrasound guided interscalene block combined or not with a stellate ganglion block”.

Workshop: Thoracic and abdominal wall blocks

2014 Faculty WCRAFT Cape Town

Lecture: “Needle technique and injection skills in brachial plexus blocks”

Workshop: Paravertebral blocks & US of the spine on cadavers

2015 Faculty AOSRA Bangkok

Lecture: “Acute compartment syndrome and regional anesthesia”

2015 Faculty Indoanesthesia:

Lectures: "Brachial plexus: needle technique and injection skills"  
"Regional anesthesia in anesthetized patients: is it safe?",  
"Ultrasound for the spine", "Why ultrasound for the spine?"  
Workshop: US for the spine

2015 Faculty ESRA Ljubljana:

Lecture: « Avoiding opioids in anesthesia »  
Workshop: Ultrasound of the spine  
Workshop: Anatomical demonstration on cadaver

2015 Faculty Consensus meeting orthopedics in Brussels

Lecture: Regional anesthesia for total knee replacement

2015 Faculty ISURA Rotterdam

Lecture: US for the spine & workshop

2015 BARA annual meeting organization

2016 Faculty Chiang Mai

Lecture: US for the spine  
Lecture: UGRA for upper limb and WS

2016 Faculty Indoanesthesia in Jakarta

Lecture: "Needle Technique and Injection Skills for Brachial Plexus Blocks"  
Workshop: US for the spine

2016 Faculty Symposium DienstFysischegeneeskunde UZA

Lecture: Intraneurale injecties in de anesthesie

2016 Faculty ISSPS and WCA Hongkong

Lecture: Ultrasound for the lumbar spine  
Workshop: Ultrasound for the spine; basics and Ultrasound for the difficult spine  
Demonstration: Real-time ultrasound for neuraxial blocks.

2016 PSA Manila Philippines

Lecture: Regional anesthesia and the risk of compartment syndrome.  
Workshop: all brachial plexus blocks

2017 Faculty Indoanesthesia in Denpasar (Bali)

Lecture: Ultrasound for the lumbar spine  
Workshop: Peripheral nerve block: upper extremity block for beginner

2017 Faculty Anesthesia Course Dubai (UAE)

Lectures: Acute compartment syndrome and regional anesthesia  
Spinal anesthesia and the risk of cardiac arrest  
Avoiding intraneural injections in peripheral nerve blocks



2017 Faculty ESRA Lugano (CH)

Lecture: Avoiding intraneural injections in peripheral nerve blocks  
Workshop: All blocks you need to know in one go  
Cadaver workshop: needle technique

2017 Faculty ESA in Tel-Aviv (Israel)

Lecture: Truncal blocks revisited  
Workshop: Ultrasound for the spine

2018 Faculty Indoanesthesia in Jakarta (Indonesia)

2018 Faculty ARAR in Cluj-Napoca (Romania)

2018 Faculty PRAC in Pune (India)

Lectures: Acute compartment syndrome and regional anesthesia  
Ultrasound for the Spine  
Avoiding intraneural injections in peripheral nerve blocks

2018 Faculty ESA in Copenhagen (Denmark)

Lecture: How to optimize your US-machine when performing PNB?

From 2000 till present: multiple lectures and workshops concerning Regional anesthesia in Belgium and organization of BARA meetings.

### **Academic prices**

Gert Noël price from the "King Boudewijn Foundation" in December 2008 for  
" Antwerp Personalised Pain Initiative"

Gert Noël price from the "King Baudouin Foundation" part 2: Lecture: Evolution of the "Antwerp Personalized Pain Initiative" in Brussels in December 2009

Neurosensory effects of Levobupivacaine 0,5% with epinephrine, Levobupivacaine 0,5% and  
N. Bosserez, J. Liesmons, **L. Sermeus**, G. Hans, M. Vercauteren  
3th price "Best free paper" at the ESRA in Porto 2010 (Portugal)

Neurosensory effects of low doses Levobupivacaine 0,5% with epinephrine, Levobupivacaine 0,5%  
and Ropivacaine 0,75% in cervical dermatomes after ultrasound guided interscalene  
block.  
J. Moens, **L. Sermeus**, G. Hans, M. Breebaart, M. Vercauteren  
Best poster SARB 2012

### **Attendance on regular base at national and international congresses**

### **Membership**

Member and past president of the Belgian Association of Regional Anesthesia (BARA).

Council Member of European Society of Regional Anesthesia (ESRA).

Board member of the Belgian society of Anaesthesiology( SARB).

Member of the scientific committee for regional anesthesia of the European Society of Anaesthesiology (ESA).

Member of the Medical Council of the "Antwerp University Hospital"

Member of the Editorial board of the "International Journal of Regional Anaesthesia"

### **Languages**

Bilingual Dutch and French

Good knowledge of English

Basic Knowledge of German