



AI & training - friend or foe?

9TH NASCE SCIENTIFIC MEETING

OCTOBER, 6-9, 2025

GHENT (BELGIUM)

ITCIT (GHENT UNIVERSITY HOSPITAL) & ORSI ACADEMY



DAY 1 - OCTOBER 8, 2025

07:30 Transport from hotel to Orsi Academy by bus

08:00 Registration

08:30 Welcome

Emin Aksoy
Wouter Willaert
Eva Vanderstraeten

09:00 Plenary session 1: Training & Assessment!

NASCE

Chairs: Piet Pattyn (ITCIT), Dara O'Keeffe (RCSI) & Uli Strauch (DSSH)

09:00 - 09:10 + 5 min	Training 'The Robotic Surgeon' - Proficiency-based technical training
09:15 - 09:25 + 5 min	Measuring resident competence during chest drain insertion - Validity study
09:30 - 09:40 + 5 min	Assessment of Clinical Reasoning and Human Factors in a Simulated Environment
09:45 - 09:55 + 5 min	Scalable Scientific solution for simulation-based training
10:00 - 10:10 + 5 min	AI in healthcare - The missing link between simulation and assessment

Niki Rashidian
Leander De Mol
Dieter Vyt
Paul Sergeant
Wouter Bogaert

10:15 Coffee break & networking

11:00 Plenary session 2: Training, Time, Tutors ... is what WE NEED!

NASCE meets 'the YOUTH'

Chairs: Gilles Soenens (BAST), Eva Vanderstraeten (Orsi), Jul Lambermont (Junior Orsi) & Per Storli (MiDT)

11:00 - 11:07 + 3 min	Get to know Junior Orsi
11:10 - 11:17 + 3 min	Challenges and opportunities in surgical formation
11:20 - 11:27 + 3 min	Successful integration of simulation based training in daily practice
11:30 - 11:37 + 3 min	Stress during simulation training
11:40 - 11:47 + 3 min	Building competent simulation educators: SimNext approach to lifelong learning
11:50 - 11:57 + 3 min	Assessing AI as a diagnostic support tool for surgical admissions in the emergency department (prize session)

Olivia Corthals & Marie Huys
Cédric Schraepen
Gilles Soenens
Maria Tjønnås
Uli Strauch
Tom McIntyre

12:00 Industry sessions: MicroPort, Grendel Medical and Surgical Science

12:15 **Lunch & networking**

13:30 **Breakout sessions - registration on-site!**

1. Hands-on training: New frontiers in robotic surgery
- 2a. The AI patient: Future or reality
- 2b. VR endovascular aortic repair
3. Roundtable discussion: Healthcare Simulation 2050: Building a better future together
4. Optimizing team performances in the operating room: learning from elite sport & military

Orsi Academy
Arteveldehogeschool
Artem Vitkovskiy
NASCE, SESAM, DSSH, Orsi, RBSS & industry
Calum Arthur

15:00 **Coffee break & networking**

15:30 **Plenary session 3: Team training - Enhancing competency and confidence**

Chairs: Dilek Kitapcioglu (CASE), Dieter Vyt (DSSH/ITCIT) & Pier Luigi Ingrassia (SESAM)

15:30 - 15:40 + 5min

ECMO and team training

15:45 - 15:55 + 5 min

Surgical sabermetrics enhancing operative team performances

16:00 - 16:10 + 5 min

Technologies & innovation for team training

16:15 - 16:25 + 5 min

Resilience during a crisis - lessons from the Covid 19 pandemic
(prize session)

16:30 - 16:50 + 5 min

NASCE - 10 years young!

NASCE meets SESAM

Harlinde Peperstraete &
Beth Vandenbroucke
Calum Arthur
Serena Ricci
Cecilia Escher

Li Felländer-Tsai, Oscar Traynor
& Dara O'Keeffe

17:00 **Tour of Orsi Academy or
Two poster sessions (3 mins presentation, 3 mins discussion)**

**Chairs: Nicla Settembre (Hopital Virtuel de Lorraine), Lars Enochsson (CAMST), Wouter Willaert (ITCIT)
Niki Rashidian (ITCIT/Orsi), Apostolos Papalois (SUBRE), Gilles Soenens (BAST)**

18:00 **Networking drink at Orsi Academy celebrating NASCE's 10th birthday!**

19:30 **Return to hotel by bus**

DAY 2 - OCTOBER 9, 2025

08:00 **Transport from hotel to Orsi Academy by bus**

08:30 **Welcome & summary day 1 NASCE annual meeting**

Isabelle Van Herzeele

08:45 **Plenary session 4: NASCE meets RBSS**

Chairs: Oscar Traynor (NASCE), Jean Lemaitre (RBSS) & Nicla Settembre (Hopital Virtuel de Lorraine)

08:45 - 09:00 + 5 min	Simulation school of Nancy and simulation program in France	Nicolas Berte
09:00 - 09:15 + 5 min	Patient-specific preoperative simulation based on Artificial Intelligence 3D modelling	Luc Soler
09:20 - 09:35 + 5 min	How to improve the NOTECHS to face surgical crisis: impact of team simulation	Jean-Marc Baste
09:40 - 09:55 + 5 min	Coaching the surgeon	Calum Arthur
10:00 - 10:10 + 5 min	Proficiency based progression on the Hugo system for learning nerve-sparing robot-assisted radical prostatectomy: a feasibility study (prize session)	Edoardo Beatrici

10:15 **Coffee break & networking**

11:00 **Plenary session 5: Innovation & Future of Simulation**

NASCE

Chairs: Paul Ridgway (UEMS), Li Felländer-Tsai (CAMST) & Serena Ricci (SESAM)

11:00 - 11:10 + 5 min	Voice as a vital sign? Using speech to identify cognitive load in surgery (prize session)	Tom McIntyre
11:15 - 11:25 + 5 min	Boosting anatomical knowledge with echocardiography and videos, focusing on cognitive load, self-efficacy and motivation (prize session)	Vicky Vandenbossche
11:30 - 11:45 + 5 min	AI + Simulation-based learning - Mind the gap!	Marco Mezzina
11:50- 12:05 + 5 min	Exploring DUTCH's simulation innovations in healthare	Uli Strauch
12:10 - 12:20	NASCE AM 2026	Per Storli
12:20 - 12:35	Prize announcement, certification & NASCE business meeting 2026	L Fellander Tsai, T Antikainen, D O'Keeffe, E Aksoy & E Aksoy
12:35 - 12:40	Closure NASCE AM	Korneel Vandenbroucke & Wouter Willaert

12:40 **Lunch & networking**

13:00 **NASCE ARB meeting & NASCE Executive meeting (invitation only)**

13:30 **Plenary session 6: 3rd RBSS meeting on Surgical Simulation**

Chairs: Niki Rashidian (ITCIT/Orsi), Alexandra Dili (RBSS) & Pieter-Jan Hermans (BAST)

13:30 - 13:40 + 5 min	Bringing the lab to life: Pulso's Simulation - Platform for Vascular Training and Research	Marco Testaguzza
13:45- 13:55 + 5 min	Optimizing endovascular surgical training: a protocol for evaluating cognitive load and individualized video-based feedback in the PROSPECT program (abstract)	Nicholas Rennie
14:00 - 14:15 + 5 min	Advanced training in veterinary medicine anno 2025	Annelies Decloedt
14:20 - 14:35 + 5 min	Practical implementation of a Belgian ophthalmology training curriculum - facilitators and barriers	Carina Koppen
14:40 - 14:55 + 5 min	New surgical curriculum in Belgium - embracing the changes!	Alexandra Dili

15:00 **Coffee break & networking**

15:30 **Break-out sessions - registration on-site!**

- 1.ArthroS training simulator
- 2.Eyesi simulator
- 3.Hands-on robotic basic skills (Toumai, Intuitive, Virtamed Robos Simulator)
- 4.VR training - Endovascular Aortic Aneurysm Repair
- 5.Open vascular surgical anastomosis in lower limb
- 6.VATS basic skills training
- 7.Simendo laparoscopic training
- 8.Pulso's simulation (demonstration)

Virtamed
Carina Koppen
Orsi Academy
Medtronic
Jean Lemaitre
Johnson & Johnson
Johnson & Johnson
Marco Testaguzza

17:00 **Closure**

RBSS



Breakout sessions

WEDNESDAY OCT. 8 | 13:30-15:00

REGISTRATION ON-SITE FOR 1 SESSION!



Medtronic



VIRTAMED



surgiscience



1. **Hands-on training: New frontiers in robotic surgery**

Orsi Academy

This hands-on session will allow participants to perform a basic robotic task on various robotic systems (Toumai, Intuitive) and one robotic simulator (Virtamed Robos simulator, Robo), guided by experienced trainers. Rotations will be in place.

Location: Cluster 4

Number of participants: 18

2. **The AI patient: Future or reality + VR endovascular aortic aneurysm repair**

Arteveldehogeschool &
Medtronic

This session will be structured in two parts.

Number of participants: 16

2a. The AI patient: Future or reality

In this breakout session, participants will work with an AI-powered patient to practice conducting an assessment and delivering an SBAR handover. The interactive setup allows you to engage with realistic clinical scenarios in a safe environment, while progressing at your own pace. It's a hands-on opportunity to sharpen communication and decision-making skills in a way that feels both practical and authentic.

Location: Cluster 3, OR 2 | **Number of participants:** 18 per session | **Duration:** 45 min

2b. VR endovascular aortic aneurysm repair

Ready for an immersive training experience? Step into the future of learning with our Virtual Reality workshop. Discover how VR can transform aortic endovascular education in a fun, hands-on session designed to spark curiosity.

Location: Cluster 3, OR 1 | **Number of participants:** 6 per session | **Duration:** 30 min

3. **Roundtable discussion: Healthcare Simulation 2050: Building a better future together**

NASCE, SESAM, DSSH,
RBSS & Orsi Academy

This roundtable will gather simulation experts, healthcare leaders and educational enthusiasts to discuss the current role of simulation in healthcare and envision its future in 2050.

Location: Meeting room Sax

Number of participants: 30

4. **Optimizing team performances in the operating room: learning from elite sport & military**

Calum Arthur

In this workshop you will learn about the science behind optimizing team performance and how to apply these principles to enhance team functioning in the operating room. Calum's experience of high-performance sport and the military will be integrated with your own experience of working in highly functioning, and dysfunctional teams. The workshop will identify key strategies around measurement and implementing team optimization plans along with key pitfalls. As part of the workshop you will generate a clear road map to higher performing teams.

Location: Meeting room Brel

Number of participants: 30



Breakout sessions

THURSDAY OCT. 9 | 15:30-17:00

REGISTRATION ON-SITE FOR 2 SESSIONS!



1. [ArthroS training simulator](#)

Virtamed

An anatomical **knee model** with soft skin allows for physical manipulation of the knee joint, including varus and valgus, flexion, extension, hip flexion, hyperflexion, and “figure of 4”. Trainees can learn the basics of knee arthroscopy, perform complete diagnostic arthroscopies, and carry out smaller surgical interventions on more patient cases with different pathologies.

The **shoulder module** supports both beach chair and lateral decubitus positions, and realistic joint movements, just like in the operating room. An anatomical shoulder model allows for a realistic palpation of landmarks, and movements such as abduction, adduction, flexion, traction, and rotation. The module also allows a free choice of portals to access the shoulder.

Location: Cluster 4 | **Number of participants:** 12

2. [Eyesi simulator](#)

Carina Koppen

The simulator has been placed by Collegium Ophthalmologicum Belgicum (COB) in collaboration with the Belgian Society of Cataract and Refractive Surgeons (BSCRS) and the Belgisch Ophthalmologisch Gezelschap (BOG). It is intended for training of residents in ophthalmology to improve their surgical skills (cataract surgery) through simulation, away from the patient. Come and observe!

Location: Cluster 4 | **Number of participants:** 10

3. [Hands-on robotic basic skills \(Toumai, Intuitive, Virtamed Robos Simulator\)](#)

Orsi Academy

This hands-on session will allow participants to learn a basic robotic skill on various robotic systems (Toumai, Intuitive) and one robotic simulator (Virtamed Robos simulator, Robo), guided by experienced trainers. Rotations will be in place.

Location: Cluster 4 | **Number of participants:** 18

4. [VR Endovascular Aortic Aneurysm Repair](#)

Medtronic

Ready for an immersive training experience? Step into the future of learning with our Virtual Reality workshop. Discover how VR can transform aortic endovascular education in a fun, hands-on session designed to spark curiosity.

Location: Cluster 3, OR 1 | **Number of participants:** 18

5. [Open vascular surgical anastomosis in lower limb](#)

Nicla Settembre

Learn in a hands-on session the most important techniques and tips for an arterial anastomosis in a femoropopliteal bypass with realistic anatomical models, instruments and products. Rotations will be in place.

Location: Cluster 1 | **Number of participants:** 12

6. VATS basic skills training

Learn in a hands- on session some principles of video assisted thoracoscopic surgery (VATS) in a 3D silicone printed model.

Location: Cluster 4 | **Number of participants:** 12

Johnson & Johnson

7. Simendo laparoscopic training

Basic laparoscopic skills training in a simulated environment for junior surgical trainees.

Location: Cluster 4 | **Number of participants:** 6-12

**Per Even Storli
Alexandra Dili
Nicolas Berte
Johnson & Johnson**

8. Pulso's simulation (demonstration)

Come and see the reproduction of accurate human anatomies on structural and heart failure issues, allowing in-vitro testing of vascular devices.

Location: Foyer | **Number of participants:** no limitation

Marco Testaguzza