



2023 Annual Meeting of the Belgian Society of Radiology (BRS)—Young Radiologist Section (YRS)

ORIGINAL ARTICLE

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ABSTRACT

On November 18, 2023, the annual meeting of the Belgian Society of Radiology (BSR) will be hosted at the KBC headquarters in Brussels. This year's topic will be "Non-Invasive Cardiovascular Radiology." Together with the Young Radiologist Section (YRS) of the BSR, this event will feature interesting high-quality lectures on a myriad of topics in vascular imaging.

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PROGRAM

The annual meeting of 2023 is divided into three different sessions, each focusing on a specific vascular territory. As always, the event starts with a warm introduction by our current **YRS president, Tom Claikens**.

Following this introduction, the first session on neurovascular imaging is kicked off. It will be moderated by our current **YRS Vice President Flavien Grandjean**.

Rodrigo Salgado (Heilig Hart Ziekenhuis—Lier; Antwerp University Hospital—Edegem) will give a presentation about state-of-the-art carotid imaging. He will highlight the evolving role of the radiologist in evaluating carotid artery disease, from mere reporting of luminal narrowing to a more comprehensive assessment of the underlying plaque and its characteristics.

The second presentation will be given by our current **BSR president, Tom De Beule (Ziekenhuis Oost-Limburg—Genk)**. The final presentation of the first session will be given by **Sven Dekeyser (University Hospital of Gent—Gent; Antwerp University Hospital—Edegem)**. He will go into more detail on central nervous system vasculitis and discuss imaging clues to this challenging diagnosis.

After a small Q/A session and coffee break, the second session on “Vascular and Technical Medley” will be introduced and moderated by **YRS Vice President Sebastien Bossens**.

This second session starts with a presentation from **former BSR President Piet Vanhoenacker (University Hospital of Gent—Gent)** on acute hemorrhage. Acute bleeding is one of the more common disease states in the emergency department and elsewhere. This presentation focuses on the optimization of the radiologist’s report, the importance of a strict scan protocol, and the added value of newer techniques in this emergency setting, including spectral imaging.

Next, **Thomas Jardinet (Antwerp University Hospital—Edegem)** addresses arterial CT-angiography of the lower limbs. This presentation depicts the crucial role of the radiologist in accurately diagnosing the extent of peripheral artery disease (inflow/outflow/runoff disease), but also the radiologist’s role in guiding revascularization therapy.

To end the morning session, **Dan Devos (University Hospital of Gent—Gent)** will focus on reducing artifacts, an important problem in vascular imaging.

Following a Q/A session, a roundup of current important matters of the Belgian Society of Radiology (BSR) will be given by **BSR President Tom De Beule**.

The third and last session of the day is moderated by **Tom Claikens**. This session will feature four presentations on cardiothoracic imaging.

Jean-François Paul (Institut Mutualiste Montsouris—Paris) starts the afternoon with a lecture on coronary computerized tomography (CT)-angiography.

He will provide a practical update, focusing on newer techniques, including artificial intelligence (AI), from acquisition to interpretation. AI has been developed in coronary CT in many fields, such as image reconstruction, automatic calcium scoring calculation, cardiovascular risk prediction, automatic image segmentation, automatic plaque quantification, and now also in image interpretation, including stenosis detection and ischemia prediction.

The presentation by **Antoine Khalil (APHP, Hôpital Bichat Claude Bernard—Paris)** will highlight diagnostic and therapeutic challenges in patients with hemoptysis. There will be a specific focus on embolization techniques and possible complications.

The second presentation by **Dan Devos (University Hospital of Gent—Gent)** focuses on cardiac magnetic resonance imaging (MRI) and, more specifically, protocol optimization. A combination of the four most indispensable and established ingredients that any radiologist could be used by any radiologist are compelled in a few basic CMR recipes: Balanced Fast Field Echo Cine Imaging, Myocardial Late Gadolinium Enhancement (LGE), T1-Maps/ECV%, and Magnetic Resonance Angiography (MRA).

To close the annual meeting, **Piet Vanhoenacker (University Hospital of Gent—Gent)** will give a presentation on acute aortic syndromes (AAS). This presentation describes different imaging signs in acute aortic dissection, intramural hematoma (IMH), and penetrating atherosclerotic ulcer (PAU). Thoracic endovascular aortic repair (TEVAR) has revolutionized the management of thoracic aortic pathologies by offering a less invasive alternative to traditional open surgery.

FACULTY

Rodrigo Salgado is a staff radiologist at Holy Heart Hospital Lier and a consultant radiologist at Antwerp University Hospital. His main field of interest is the noninvasive CT/MR imaging of cardiovascular disease, with a special focus on valvular and coronary artery imaging. He holds a PhD in this field from the faculty of medicine at Antwerp University.

Since 2017, he has been a member of the Executive Committee of the European Society of Cardiovascular Radiology (ESCR), and is now the vice president. He is the past chair of the cardiovascular section of the BSR. He serves on the scientific editorial board of *Insights into Imaging* and is a member of the editorial board of the *International Journal of Cardiovascular Imaging*. He is currently also the section editor of the cardiovascular division for *ESR Eurorad*.

Previously, he was a member and eventually chair of the Cardiac Scientific Subcommittee for the European Congress of Radiology in 2018, 2019, and 2020. Currently,



Rodrigo Salgado

he is a faculty member of the European Congress of Radiology program team for the editions 2021, 2023, and 2024. In 2019, he was ESCR congress president.

For more than a decade, Dr. Salgado is a frequently invited speaker at international meetings, and he has written and contributed to several peer-reviewed papers and book chapters.

Piet Vanhoenacker is a radiologist with a keen focus on noninvasive cardiovascular radiology and cardiovascular imaging. He is currently affiliated with the University Hospital Ghent. A considerable part of his professional journey, spanning 26 years, was spent at OLV Ziekenhuis Aalst. Piet's educational pursuits led him from UZ Leuven to the distinguished Boston University and Harvard University for a one-year BAEF fellowship.

He presented a doctoral thesis on CT of the coronary arteries at the University of Antwerp in 2008.

Over the years, he has made notable contributions to various publications, especially in the realms of interventional radiology, neuroradiology, and cardiovascular imaging.

Piet's commitment to the radiological community extends beyond clinical practice and academia. He has actively participated in professional defense initiatives and has played instrumental roles within the BSR. Not only did he serve as its president, but he is now the chairman of the BSR's scientific council. Moreover, in 2015, Piet was pivotal



Piet Vanhoenacker

in transitioning the *Journal belge de Radiologie*-Belgisch Tijdschrift voor Radiologie (JBR-BTR) into the contemporary electronic journal, JBSR, enhancing its accessibility and relevance in the digital age. Throughout his career, Piet has balanced his achievements with teaching, consistently spreading knowledge in the field.

Today, Piet brings his experience to the stage, where he will shed light on some intricacies of Doppler ultrasonography and merge into the critical topic of AAS trying to make complex topics accessible to all.

Thomas Jardinet is a radiologist at Antwerp University Hospital. After his medical formation (2006–2013) and radiological certificate (2013–2018) at the University of Leuven, he completed an additional fellowship in interventional radiology at UZ Leuven in 2019, where he is still a consultant radiologist.

In the last 3 years, he has built a broad interventional practice at Antwerp University Hospital and is especially interested in innovations in embolotherapy. He successfully introduced several novel interventional treatment programs in his hospital, including knee osteoarthritis embolization and cerebrospinal fluid (CSF)-venous fistula embolization. In addition to his interventional practice, a part of his clinical activity involves diagnostic cardiac and vascular imaging.

Dan Devos, MD, PhD, is a cardiovascular radiologist at the Ghent University Hospital. His main interests are pediatric



Thomas Jardinet

and adult congenital heart disease. His PhD thesis was entitled 'Structural and Functional MR Imaging of the Aorta.' Aorta imaging is still an important part of the daily routine in a center with a very active thoracic surgery department as well as a reference clinic for fibrous tissue diseases.

Another interest is the development of MR Lymphangiography as an imaging modality in the preparation for lymphatic reconnection or bypass surgery.

Further activities include Computer Tomographic Angiography and Cardiac Computer Tomography.

Research collaboration is mainly supportive, for clinical research in the institution or for several industry-driven studies. His latest publication was 'The Hammock Sign in Computed Tomography as a Detection Aid for Bicuspid Aortic Valves' in JBSR, 2023 (DOI: 10.5334/jbsr.2974)

Dr. Devos is involved in the education of fellow radiologists and medicine students.

Dr. J. F. Paul is a radiologist, specialized in cardiac CT and cardiac MR, involved in clinical research with 130 papers published in peer-reviewed journals.

His main topics are Image Quality in CT and MR, radiation dose optimization, Artificial Intelligence, 4D flow imaging, coronary artery disease, and congenital heart disease.

He is also an entrepreneur who founded Spimed-AI in 2019 to develop AI tools for cardiac CT and ultimately democratize cardiac CT use.



Dan Devos



Jean-François Paul



Antoine Khalil

Antoine Khalil is a Professor of Radiology, specialized in diagnostic and interventional thoracic imaging since the 90s. His interests focus on percutaneous (transthoracic punctures, tumor ablation, analgesic treatment) and vascular (treatment of hemoptysis, embolization of pulmonary arteriovenous malformations, recanalization of the superior vena cava . . .) thoracic interventional radiology. His international publications cover the management of hemoptysis from diagnosis to the most advanced treatment options.

COMPETING INTERESTS

The authors have no competing interests to declare.

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