

**Final Programme**

**European Society of  
Head and Neck Radiology (ESHNR)**  
**24<sup>th</sup> Annual Meeting and Refresher Course**

**September 8-10, 2011**

**Brugge, Belgium**

Joint with

**4<sup>th</sup> International Congress & Workshops  
3D Diagnosis and Virtual Treatment Planning  
of Cranio-Maxillo-Facial Deformity  
on 10 September 2011**

**[www.eshnr2011.be](http://www.eshnr2011.be)**



# Welcome



Dear Colleagues,

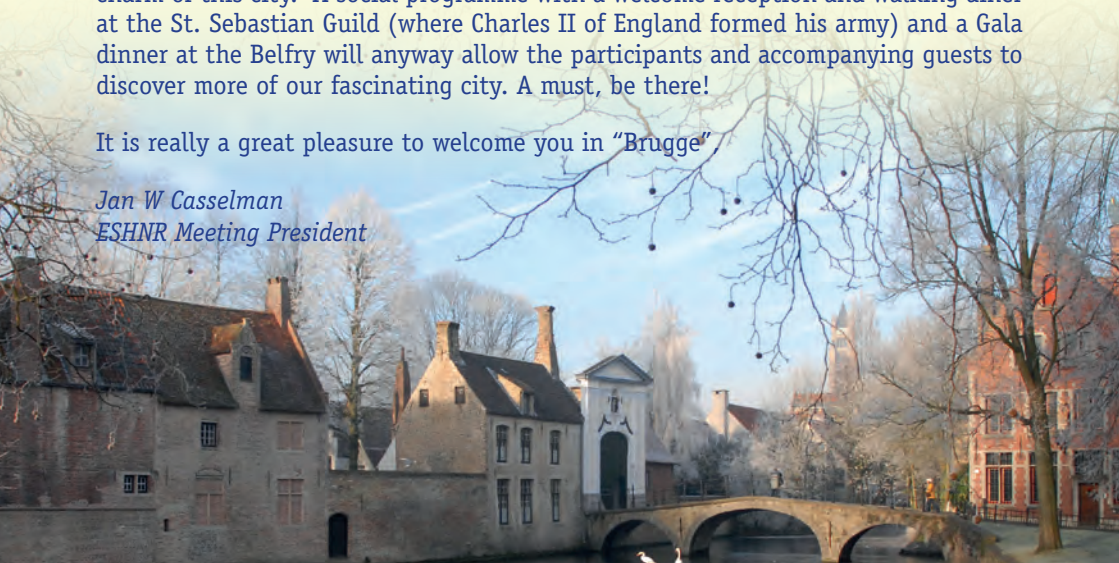
On behalf of the Organizing Committee, it is my great privilege to welcome you to the 24<sup>th</sup> Annual Meeting and Refresher Course of the European Society of Head and Neck Radiology.

This year the Scientific Program is focused on new techniques, radiologist-surgeon cooperation, congenital malformations and cranial nerves & their nuclei. Moreover a special session "The Mancuso generation" will honor Prof. Anthony Mancuso, one of the founders of CT and MR based Head and Neck imaging. In this session we will realize what we learned the last decades and what we can expect in the near future. A common session on "Cone Beam CT" will be organized together with the 4<sup>th</sup> International Congress on 3D-diagnosis and virtual planning of cranio-maxillo-facial deformity. Cone Beam CT is a hot new imaging modality and for those participants who plan to buy a CBCT it will be a golden opportunity to see and compare the different systems. This year the film reading panel will be converted to an "interactive-voting" quiz, allowing all participants to learn a lot and to test and enjoy themselves. "Hands-on" ultrasound sessions are organized at lunch time and last but not least there is the traditional refresher course at the end of the meeting. Those who still need more Head and Neck information can attend the 34 oral communications or can go through the 40 e-posters.

All this is organised in the centre of "Brugge", a medieval UNESCO World Heritage Site. Hopefully you will find the time to look around and enjoy the beauty and charm of this city. A social programme with a welcome reception and walking diner at the St. Sebastian Guild (where Charles II of England formed his army) and a Gala dinner at the Belfry will anyway allow the participants and accompanying guests to discover more of our fascinating city. A must, be there!

It is really a great pleasure to welcome you in "Brugge"

*Jan W Casselman*  
*ESHNR Meeting President*



# 24th Annual Meeting and Refresher Course of the European Society of Head and Neck Radiology

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## Committees

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### Meeting president

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Jan W Casselman  
Department of Radiology  
AZ St Jan Brugge-Oostende AV  
Ruddershove 10, B-8000 Brugge



### Local Organizing Committee

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Jan Casselman (Brugge)  
Bert De Foer (Antwerpen)  
Joost Delanote (Brugge)  
Gwen Swennen (Brugge)  
Erwin Offeciers (Antwerpen)

### Scientific Committee

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Minerva Becker (Genève, Switzerland)  
Alexandra Borges (Lisboa, Portugal)  
Jan Casselman (Brugge, Belgium)  
Christian Czerny (Vienna, Austria)  
Heidi Eggesbø (Oslo, Norway)  
Stephen Golding (Oxford, U.K.)  
Robert Hermans (Leuven, Belgium)  
Marc Lemmerling (Gent, Belgium)  
Marc Lemort (Brussels, Belgium)  
Martin Mack (Frankfurt, Germany)  
Roberto Maroldi (Brescia, Italy)

### Organizing Secretariat

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Korte Meer 18  
9000 Gent, Belgium  
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# Acknowledgments

The organizing committee gratefully acknowledge the support of the following companies and wish to thank them for their contribution.

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## Partners

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### Platinum Partner

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GE imagination at work

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services helps our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our “healthmagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access, and improving quality around the world. Headquartered in the United Kingdom, GE Healthcare is a unit of General Electric Company (NYSE: GE). Worldwide, GE Healthcare employees are committed to serving healthcare professionals and their patients in more than 100 countries.

For more information about GE Healthcare, visit our website at [www.gehealthcare.com](http://www.gehealthcare.com)

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Chalfont St. Giles, Buckinghamshire, UK

[www.gehealthcare.com](http://www.gehealthcare.com)



Guerbet is the only pharmaceutical group totally dedicated to medical imaging on the world market. It has a full range of X-ray, MRI and nuclear medicine imaging products to enhance overall patient care. Its products facilitate diagnosis and the preparation of treatment strategies for major pathologies (cardiovascular diseases, cancers, inflammatory and degenerative diseases).

To discover new products and ensure its future development, Guerbet devotes significant resources to R&D every year: 210 staff and a sum equivalent to 11% of its sales. The programs on MRI and nuclear medicine modalities are central to Guerbet's research priorities.

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## PHILIPS

Royal Philips Electronics is a diversified Health and Well-being company, focused on improving people's lives through timely innovations. As a world leader in healthcare, lifestyle and lighting, Philips integrates technologies and design into people-centric solutions, based on fundamental customer insights and the brand promise of "sense and simplicity".

Philips simplifies healthcare by focusing on the people in the care cycle – patients and care providers. **People focused** healthcare means learning what it is like to be a patient, as well as understanding the complexities facing the care givers. Through combining human insights and clinical expertise, Philips aim to improve patient outcomes while lowering the burden on the healthcare system, and to develop more intuitive, affordable and better technology solutions, to help take some of the complexity out of healthcare. That is healthcare simplified.

Advanced healthcare solutions are a fundamental part of the portfolio for both healthcare professionals and consumers, to meet the needs of patients in hospitals and at home.

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## Gold Partner

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### A Pioneer in Diagnostic Imaging

The diagnostic imaging business of Bayer HealthCare is a world leader in developing and manufacturing contrast media for use in X-ray, computed tomography (CT) and magnetic resonance imaging (MRI). Of all the companies supplying contrast media, Bayer HealthCare is the one with the strongest in-house therapeutic expertise. We use our knowledge to deliver diagnostic imaging products and services that are very much clinically oriented with the emphasis on a safe, fast, precise diagnosis every time. Our aspiration is that patients experience the least invasive and the most efficient imaging procedure, and that our customers have confidence in the usefulness of the diagnostic information acquired with our in-vivo imaging products.

The Diagnostic Imaging business unit collaborates with Bayer's subsidiary MEDRAD, the market leader in contrast media injectors and a supplier of other state-of-the-art technical accessories. Our goal is to improve available diagnostic in-vivo imaging methods and to develop new, innovative tools for an earlier, more sensitive and specific diagnosis.



## Exhibitors


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## Cone Beam CT exhibitors

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Brugge, Belgium**

# Information





## Use of wireless internet

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Wireless internet is available in Oud St.-Jan.  
password: ESHNR-3DFIRG  
network: bruges2011

## Time zone

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The time zone in Brugge is GMT + 1 hour.

## Climate and dress

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The weather in Brugge at this time of the year is usually sunny with temperatures around 16-20°C. An umbrella might be useful as showers can occur. Dress will be informal throughout the meeting.

## Banks and Post Office

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Most banks open at 09h00 and will close around 16h30, from Monday through Friday. They are generally closed for lunch between 12h30-14h00. Post Offices are generally open between 09h00 and 16h00. Please, note that there will be no exchange facilities at the conference venue.

## Electricity

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The voltage in Belgium is 220V, 50 Hz.

## Insurance and Liability

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The 24<sup>th</sup> ESHNR meeting committees and King Conventions do not accept liability for personal medical expenses/travel expenses/losses of whatever nature incurred by delegates and/or accompanying persons.

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## Social Programme

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### Get-together

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#### 8 September (18h00- 22h30)

(Sint Sebastian's Archers' Guild – Carmersstraat 174, Brugge)

You are kindly invited to join the get-together at the Sint Sebastian's Archers' Guild. This Guild is more than 600 years old. In 1656 King Charles II of England, forced in exile by Oliver Cromwell, formed his army in this guild. Hence, this guild is the cradle of the English elite troupes "The First or Grenadier Regiment of Foot Guards".

A walking convoy will start at 18:00 from site Oud Sint Jan.

For those who will attend by own means they will be expected at 18:45 in the Guild.

### Meeting Dinner

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#### 9 September (20h00-23h30)

(Belfry and Halles, Markt 7, Brugge)

The Meeting Dinner will take place on Friday, 9 September at 20h00 at the Belfry, Markt, Brugge. The Belfry was built in 1240 and is 83 m high. It is the landmark of Brugge and one of the oldest buildings of the city.





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**Scientific Information**



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## Scientific Information

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### Language

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The 24<sup>th</sup> Annual Meeting and Refresher Course of the European Society of Head and Neck Radiology is English.

### Certificate of attendance

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A certificate of attendance will be handed over at the registration desk.

### Guidelines for speakers

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The slide preview room is located at ground level and will be open from half an hour before the first session until half an hour after the last session of the day.

- Please, hand in your presentation on (USB-stick) at the slide preview room at least two hours before your presentation is scheduled.
- Speakers are requested to come to the meeting room at least 5 minutes prior to the start of the session and identify themselves to the chair.
- The following audio visual equipment will be available in the session rooms: Data projection; One PC compatible computer; Lectern and microphone; A technician to help you at any time.
- Microphones will be under control of the technician all the time. There is no need to switch them on.
- Presenters must take place at seats in front of the room for the duration of the session. Delegates will be seated in theatre style.

### CME CREDITS

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The 24<sup>th</sup> Annual Meeting and Refresher Course of the European Society of Head and Neck Radiology is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists.

The EACCME is an institution of the European Union of Medical Specialists (UEMS). The 24<sup>th</sup> Annual Meeting and Refresher Course of the European Society of Head and Neck Radiology is designated for a maximum of, or up to 18 of European external CME Credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity. The EACCME credit system is based on 1 ECMEC per hour with a maximum of 3 ECMECs for half day and 6 ECMECs for a full-day event.

EACME credits are recognized by the American Medical Association for the Physician's Recognition Award (PRA). To convert EACME credit to AMAPRA 1 credit, contact the AMA. The attendance certificate is available at the CME desk, upon return of the CME evaluation form.

## e-Poster Presentations

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The e-Poster environment in the "Witte Roos" consists of a number of workstations where the e-posters can be viewed during the whole duration of the meeting.


## Faculty Members

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Abeloos Johan, *Brugge, Belgium*  
Argaud Christophe, *GE HealthCare, Buc, France*  
Becker Minerva, *Geneva, Switzerland*  
Beale Timothy, *London, UK*  
Bergé Stefan, *Nijmegen, the Netherlands*  
Bidault Francis, *Paris, France*  
Bisdas Sotirios, *Tübingen, Germany*  
Bonardel Gerald, *Paris, France*  
Borges Alexandra, *Lisbon, Portugal*  
Casselman Jan, *Brugge, Belgium*  
Castelijns Johannes Adrianus, *Amsterdam, the Netherlands*  
Creuzet Sophie, *Gif-sur-Yvette, France*  
Czerny Christian, *Vienna, Austria*  
De Bondt Bert-Jan, *Zwolle, the Netherlands*  
De Foer Bert, *Antwerp, Belgium*  
De Keyzer Frederik, *Leuven, Belgium*  
Delanote Joost, *Brugge, Belgium*  
Demaerel Philippe, *Leuven, Belgium*  
Dubrulle Frédérique, *Lille, France*  
Eggesbø Heidi, *Oslo, Norway*  
Elmaleh-Berges Monique, *Paris, France*  
Evans Rhodri, *Wales, UK*  
Farina Davide, *Brescia, Italy*  
Freling Nicole, *Amsterdam, the Netherlands*  
Golding Stephen, *Oxford, UK*  
Hermans Robert, *Leuven, Belgium*  
Jacobs Reinhilde, *Leuven, Belgium*

Kollias Spyridon, *Zurich, Switzerland*  
Kösling Sabrina, *Halle, Germany*  
Kuhweide Rudi, *Brugge, Belgium*  
Larheim Tore A, *Oslo, Norway*  
Lemmerling Marc, *Gent, Belgium*  
Lemort Marc, *Brussels, Belgium*  
Ludlow John B, *Chapel Hill, USA*  
Lund Valérie, *London, UK*  
Mack Martin, *Frankfurt, Germany*  
Mancuso Anthony, *Gainesville, USA*  
Maroldi Roberto, *Brescia, Italy*  
Martin-Duverneuille Nadine, *Paris, France*  
Naidich Tom, *New York, USA*  
Offeciers Erwin, *Antwerpen, Belgium*  
Ozgen Mocan Burce, *Ankara, Turkey*  
Pameijer Frank, *Utrecht, the Netherlands*  
Schuknecht Bernhard, *Zurich, Switzerland*  
Sennaroglu Levent, *Ankara, Turkey*  
Steyaert Luc, *Brugge, Belgium*  
Swennen Gwen, *Brugge, Belgium*  
Trojanowska Agnieszka, *Lublin, Poland*  
Van Cauwenberge Paul, *Gent, Belgium*  
Vandecaveye Vincent, *Leuven, Belgium*  
Van den Hauwe Luc, *Antwerpen, Belgium*  
Veillon Francis, *Strasbourg, France*  
Verbist Berit, *Leiden, the Netherlands*  
Verwoerd Jan, *Philips, Eindhoven, the Netherlands*  
Wilms Guido, *Leuven, Belgium*  
Widelec Jacques, *Brussels, Belgium*





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# Programme



# Thursday 8 september

08:00-08:30 REGISTRATION  
08:30-08:45 OPENING CEREMONY

08:45-10:15		NEW TECHNICAL POSSIBILITIES IN HEAD & NECK IMAGING: HOW DOES IT WORK	
		<i>Room: Ambassadeur</i>	Chair: R. Maroldi / A. Trojanowska
08:45	IL Latest technical advances in CT for Head & Neck Imaging		C. Argaud
09:10	IL MR: coils - parallel Imaging - asymmetric K-space - multitransmit		J. Verwoerd
09:35	IL Diffusion weighted MR Imaging: what you should know		F. De Keyzer
09:55	IL New developments in ultrasound and interventional procedures		L. Steyaert

10:15-10:45 COFFEE BREAK

10:45-12:25		NEW CLINICAL HEAD & NECK APPLICATIONS	
		<i>Room: Ambassadeur</i>	Chair: P. Mack / J. Castelljns
10:45	IL New CT applications and the value of perfusion CT		A. Trojanowska
11:05	IL Value of PET CT and PET MR and their contemporary applications		M. Becker
11:25	IL Clinical DWI applications: does it always work?		V. Vandecasteele
11:45	FP Management of head and neck carcinoma of unknown primary: the diagnostic accuracy of F-18 FDG-PET/CT in detection of the clinically occult tumour		Straiton JB
11:55	FP Can perfusion sensitized MR diffusion weighted imaging discriminate between benign and malignant nodes for patients with head and neck squamous cell carcinoma?		Punwani S
12:05	FP An <i>in-vitro</i> comparison of panoramic views acquired via 2D or 3D imaging to aid diagnosis of oral health		Pittayapat P
12:15	FP Black Bone" MRI & three-dimensional imaging of the craniofacial skeleton		Eley KA

10:45-12:25		FREE PAPER SESSION: MISCELLANEOUS	
		<i>Room: Beethoven</i>	Chair: M. Lemort / B. De Foer
10:45	FP Diffusion-weighted imaging for retinoblastoma: initial experience		de Graaf P
10:55	FP Hypervascularized tumors of the lid and orbit		Berges O
11:05	FP High-resolution ultrasonography and multispiral computed tomography with contrast enhancement in the diagnostics of lacrimal tract diseases		Vasilev A
11:15	FP Seasonality and incidental sinus abnormality reporting on MRI in an Australian climate		del Rio A
11:25	FP Is there recurrence? – Pictorial review of post treatment imaging appearances in patients with head and neck cancer		Mathur S
11:35	FP A customized dental CT software for automatic correction of patient positioning error and detection of jaw midline		Lo Casto A
11:45	FP Chronic periodontitis and the risk of orofacial odontogenic infections		Dumitrescu AL
11:55	FP Dental age according to Demirjian and Cameriere in Polish children		Rozyllo-Kalinowska I
12:05	FP Radiological findings and panoramic radiomorphometric indices		Rozyllo-Kalinowska I

12:30-14:00 LUNCH  
BEST POSTER SESSION (A)  
*Room: Witte roos*

12:30-13:15 ULTRASOUND HANDS-ON SESSION (1)  
13:15-14:00 ULTRASOUND HANDS-ON SESSION (2)  
*Room: Mozart*

14:00-15:30		SINUSES: WHAT THE RADIOLOGIST AND SURGEON SHOULD TELL EACH OTHER	
		<i>Room: Ambassadeur</i>	Chair: P. Van Cauwenberge / H.B. Eggesbø
14:00	IL Surgical anatomy		R. Maroldi
14:30	IL Non-tumoral sinus pathology		V. Lund / N. Freling
15:00	IL Sinonasal tumours: what the radiologist and surgeon should tell each other		V. Lund / T. Beale

14:00-15:30		FREE PAPER SESSION: TECHNIQUES	
		<i>Room: Beethoven</i>	Chair: M. Lemort / L. van den Hauwe
14:00	FP Can histographic analysis of apparent diffusion coefficient help discriminate between benign and malignant nodes in head and neck squamous cell carcinoma?		Purpura P
14:10	FP Incidental F-18 FDG positive focal thyroid nodules on PET/CT: evaluation and outcome		Straiton JB
14:20	FP Positron emission tomography - Computed tomography in head and neck radiology		Kuruppu D
14:30	FP The identification of cranial sutures on MRI: a review and report of preliminary findings using "Black Bone" MRI		Eley KA
14:40	FP Spirotome macrobiopsy for head & neck lesions		Janssens J

14:50	FP Comparison of dose of cone beam tomography and CT in diagnostics of paranasal sinuses	Güldner C
15:00	FP Influence of low-dose protocols on the accuracy of image-guided craniofacial and skull base surgery	Widmann G
15:10	FP Maxillo-facial traumas – New approaches with CBCT	Martin-Duverneuil N
15:20	FP The effects of compression on the image quality of digital panoramic radiographs	Yasar F

**15:30-16:00 COFFEE BREAK**

<b>16:00-17:50 MAXILLOFACIAL AND BRANCHIAL ARCH MALFORMATIONS</b>		
<i>Room: Ambassadeur</i>		<b>Chair: M. Elmaleh / S. Golding</b>
16:00	IL Neural crest in maxillofacial and branchial morphogenesis	S. Creuzet
16:35	IL Abnormal development: when and how it goes wrong	T. Naidich
17:15	IL Congenital lesions of the neck: US, CT and MR findings	J. Delanote

<b>16:00-17:50 FREE PAPER SESSION: TEMPORAL BONE</b>		
<i>Room: Beethoven</i>		<b>Chair: S. Kösling / B. Schuknecht</b>
16:00	FP Value of the internal auditory canal hypodensity on high resolution CT in otosclerosis	Van Driessche V
16:10	FP Temporal bone fractures and related complications: CT findings in patients imaged in the acute emergency setting	Kohler R
16:20	FP Comparative study of multidetector CT and conebeam CT of the temporal bone: anatomy – otosclerosis – superior canal dehiscence, early experience and preliminary results	Volders D
16:30	FP Imaging follow-up of vestibular schwannomas. Is the long term MRI	Romsauerova A
16:40	FP Aetiology and clinical consequence of a widened incudo-stapedial gap in the fully aerated middle ear on computed tomography	Connor SEJ
16:50	FP Role of cone beam tomography in evaluation of cochlea implants	Güldner C
17:00	FP Artifacts in cone beam tomography and cochlea implantation	Diogo I
17:10	FP Development of an insertion model for cochlear implantation based on imaging evaluation of cochlear morphology	van der Marel KS
17:20	FP Staging primary middle ear cholesteatoma with non-echoplanar (HASTE) diffusion weighted MRI helps plan surgery	Majithia A
17:30	FP Inner and middle ear malformations in the 22q11.2 deletion syndrome	Elmaleh-Bergès M
17:40	FP CT-scan oval fossa measurement in pre operative otosclerosis surgery	Ukkola-Pons E

**18:00-22:00 GET-TOGETHER/WALKING DINER**

# Friday 9 september

<b>08:30-10:15</b>			<b>TEMPORAL BONE - WHAT THE RADIOLOGIST AND SURGEON SHOULD TELL EACH OTHER</b>		
			<i>Room: Ambassadeur</i>		Chair: R. Kuhweide / F. Veillon
08:30	IL	Cholesteatoma imaging today	E. Offeciers / B. De Foer		
09:05	IL	Congenital inner ear malformations and cochlear implants	L. Sennaroglu / B. Ozgen		
09:40	IL	Conductive hearing loss with an intact tympanic membrane	E. Offeciers / J. Casselman		
<b>10:15-10:45 COFFEE BREAK</b>					
<b>10:45-12:30</b>			<b>HEAD &amp; NECK STRUCTURES AND THEIR CONNECTION WITH CRANIAL NERVES AND NUCLEI</b>		
			<i>Room: Ambassadeur</i>		Chair: G. Wilms / N. Martin-Duverneuille
10:45	IL	Anatomy of the cranial nerves, cranial nerve nuclei and tracts	T. Naidich		
11:15	IL	Symptoms-guided imaging of the cranial nerves and nuclei	S. Kollias		
11:40	IL	Auditory and vestibular pathways: in vivo anatomy & pathology	J. Casselman		
12:05	IL	Imaging the anterior visual pathway	P. Demaerel		
<b>10:45-12:30</b>			<b>ORAL CAVITY</b>		
			<i>Room: Beethoven</i>		Chair: D. Farina / B.-J. De Bondt
10:45	FP	How medical imaging can influence the surgical decision making	J. Abeloos		
11:10	FP	Imaging of oral cavity cancer: what the surgeon wants to know	F. Dubrulle / F. Bidault		
11:35	FP	What's new with Positron Emission Tomography in oral cavity cancer	G. Bonardel		
12:00	FP	How to differentiate recurrence or post therapeutic changes in the oral cavity	F. Bidault / G. Bonardel		
<b>12:30-14:00 LUNCH</b>					
<b>BEST POSTER SESSION (A)</b>					
<i>Room: Witte roos</i>					
12:30-13:15	<b>ULTRASOUND HANDS-ON SESSION (3)</b>			T. Beale / L. Steyaert / R. Evans	
13:15-14:00	<b>ULTRASOUND HANDS-ON SESSION (4)</b>			T. Beale / L. Steyaert / R. Evans	
<i>Room: Mozart</i>					
<b>14:00-16:10</b>			<b>THE MANCUSO GENERATION</b>		
			<i>Room: Ambassadeur</i>		Chair: A. Mancuso / J. Casselman
14:00	IL	How does a Head & Neck Radiologist Need to Think and Act	A. Mancuso		
14:45	IL	Temporal bone imaging: from basics to benchmark: part 1	M. Lemmerling / B. Verbist		
15:25	IL	Imaging of the larynx and hypopharynx: The Gainesville Foundation	F. Pameijer		
15:45	IL	The larynx, hypopharynx and beyond: The Spin-Off	R. Hermans		
<b>16:10-16:40 COFFEE BREAK</b>					
<b>16:40-18:00</b>			<b>INTERACTIVE QUIZ</b>		
			<i>Room: Ambassadeur</i>		Chair: M. Mack
16:40	Call:	Multicentre study: image analysis-based staging oral cancer and predicting survival			
16:45	QUIZ		M. Mack / A. Borges / S. Bisdas		
<b>18:00-18:30</b>			<b>GENERAL ASSEMBLY</b>		
<b>20:00-00:00</b>			<b>Conference DINNER &amp; AWARDS</b>		

## Saturday 10 september

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08:30-12:30		CONE BEAM CT	Chair: G. Swennen / J. Widelec
		<i>Room: Ambassadeur</i>	
08:30	IL	Radiation and technical aspects of CBCT imaging	J. Ludlow
09:00	IL	Dento-alveolar, implant & orthodontic indications for CBCT imaging	R. Jacobs
09:30	IL	Use of CBCT in dental implant treatment	T.A. Larheim
10:00-10:30		COFFEE BREAK	
10:30	IL	Combination of CBCT imaging & 3D stereophotogrammetry in maxillo-facial deformity	S. Bergé
11:00	IL	Other and new indications / quality	J. Casselman
11:30		Round table: which CBCT system should I buy?	Moderators (J. Casselman / G. Swennen)

### 12:00-12:15 CLOSING CEREMONY

### 12:15-13:30 LUNCH

13:30-15:30		REFRESHER COURSE ESHNR - PART 1	Chair: A. Borges
		<i>Room: Ambassadeur</i>	
13:30	IL	Anatomy of the skull base	H.B. Eggesbø
14:00	IL	Pathology of the anterior and central skull base	A. Borges
14:30	IL	Temporal bone pathology	C. Czerny
15:00	IL	The parapharyngeal space	M.G. Mack

### 15:30-16:00 COFFEE BREAK

16:00-18:00		REFRESHER COURSE ESHNR - PART 2	Chair: F. Veillon
		<i>Room: Ambassadeur</i>	
16:00	IL	Cranial nerves I-VI	M. Lemmerling
16:30	IL	Cranial nerves VII-XII	F. Veillon
17:00	IL	The masticator space	M. Lemort
17:30	IL	The oral cavity and oropharynx	S. Golding





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**Programme in detail**



**08.30-08.45 Room Ambassadeur  
Opening Ceremony**

Jan W. Casselman  
*ESHNR Meeting President*

Minerva Becker  
*ESHNR President*

Hans Rigauts  
*Director and Medical Director AZ Sint-Jan Brugge-Oostende av*

**08.45-10.15 Room Ambassadeur  
Plenary Session  
New technical possibilities in head & neck imaging:  
how does it work?**

Chairs: R. Maroldi, *Brescia, Italy*  
A. Trojanowska, *Lublin, Poland*

- 08.45 IL Latest technical advances in CT for head & neck imaging**  
C. Argaud, *GE Healthcare*
- 09.10 IL MR: coils - parallel imaging - asymmetric K-space - multitransmit**  
J. Verwoerd, *Philips Medical Systems*
- 09.35 IL Diffusion weighted MR Imaging: what you should know**  
F. De Keyzer, *Leuven, Belgium*
- 09.55 IL New developments in ultrasound and interventional procedures**  
L. Steyaert, *Brugge, Belgium*

**10.15-10.45 Coffee Break**

## Room Ambassadeur

### Parallel Session

#### 10.45-12.30 New clinical head & neck applications

Chairs: M.G. Mack, *Frankfurt, Germany*  
J. Castelijns, *Amsterdam, the Netherlands*

- 10.45 IL **New CT applications and the value of perfusion CT**  
*A. Trojanowska, Lublin, Poland*
- 11.05 IL **Value of PET CT and PET MR and their contemporary applications**  
*M. Becker, Geneva, Switzerland*
- 11.25 IL **Clinical DWI applications: does it always work?**  
*V. Vandecaveye, Leuven, Belgium*
- Free papers:**
- 11.45 FP **Management of head and neck carcinoma of unknown primary: the diagnostic accuracy of F-18 FDG-PET/CT in detection of the clinically occult tumour**  
*Straiton JB, Han S, Bethapudi S, McCallum A (UK)*
- 11:55 FP **Can perfusion sensitized MR diffusion weighted imaging discriminate between benign and malignant nodes for patients with head and neck squamous cell carcinoma?**  
*Punwani S, Purpura P, Bainbridge A, Price D, Vaitilingam T, Stevens N, Fitzke H, Beale T, Morley S, Forster M, Mendes R (UK)*
- 12:05 FP **An *in-vitro* comparison of panoramic views acquired via 2D or 3D imaging to aid diagnosis of oral health**  
*Pittayapat P, Galati D, Huang Y, Dreesen K, Schreurs M, Couto Souza P, Rubira IR, Westphalen FH, Jacobs R (Belgium)*
- 12:15 FP **“Black Bone” MRI & three-dimensional imaging of the craniofacial skeleton**  
*Eley KA, Watt-Smith SR, Golding SJ (UK)*

## Room Beethoven

### Parallel Session

#### 10.45-12.30 Miscellaneous: Free Paper Session

Chairs: M. Lemort, *Brussels, Belgium*  
B. de Foer, *Antwerpen, Belgium*

- 10.45 FP **Diffusion-weighted imaging for retinoblastoma: initial experience**  
*de Graaf P, Pouwels PJW, Rodjan F, Moll AC, Imhof SM, Knol DL, Sanchez E, van der Valk P, Castelijns JA (the Netherlands)*

- 10.55 FP **Hypervascularized tumors of the lid and orbit**  
Berges O, Putterman M, Galatoire O, Heran F (*France*)
- 11.05 FP **High-resolution ultrasonography and multispiral computed tomography with contrast enhancement in the diagnostics of lacrimal tract diseases**  
Vasilev A, Smyslenova M, Privalova E (*Russia*)
- 11.15 FP **Seasonality and incidental sinus abnormality reporting on MRI in an Australian climate**  
del Rio A, Trost N, Tartaglia C, Michael P (*Australia*)
- 11.25 FP **Is there recurrence? – Pictorial review of post treatment imaging appearances in patients with head and neck cancer**  
Mathur S, Desai N (*UK*)
- 11.35 FP **A customized dental CT software for automatic correction of patient positioning error and detection of jaw midline**  
Lo Casto, Petrucci G, Gallo P, Purpura P, Barreca F, La Tona G (*Italy*)
- 11.45 FP **Chronic periodontitis and the risk of orofacial odontogenic infections**  
Dumitrescu AL, Zetu L, Teslaru S, Haba D (*Romania*)
- 11.55 FP **Dental age according to Demirjian and Cameriere in Polish children**  
Rozylo-Kalinowska I, Rozylo TK, Krawczyk K (*Poland*)
- 12.05 FP **Radiological findings and panoramic radiomorphometric indices**  
Rozylo-Kalinowska I, Kalinowski P, Rozylo TK (*Poland*)

12.30-14.00 Lunch

## Witte Roos

12.30 **Best Poster Session (A)**

## Room Mozart

12.30-13.15 **Ultrasound Hands-on Session (1)**

Instructors: T. Beale, *London, UK*  
L. Steyaert, *Brugge, Belgium*  
R. Evans, *Wales, UK*

13.15-14.00 **Ultrasound Hands-on Session (2)**

Instructors: T. Beale, *London, UK*  
L. Steyaert, *Brugge, Belgium*  
R. Evans, *Wales, UK*

## Room Ambassadeur

### Parallel Session

#### 14.00-15.30 Sinuses: what the radiologist and surgeon should tell each other

Chairs: P. Van Cauwenberge, *Gent, Belgium*  
H.B. Eggesbø, *Oslo, Norway*

- 14.00 IL **Surgical anatomy**  
R. Maroldi, *Brescia, Italy*
- 14.30 IL **Non-tumoral sinus pathology**  
V. Lund, *London, UK* & N. Freling, *Amsterdam, the Netherlands*
- 15.00 IL **Sinonasal tumours: what the radiologist and surgeon should tell each other**  
V. Lund & T. Beale, *London, UK*

## Room Beethoven

### Parallel Session

#### 14.00-15.30 Techniques: Free Paper Session

Chairs: M. Lemort, *Brussels, Belgium*  
L. van den Hauwe, *Antwerpen, Belgium*

- 14.00 FP **Can histographic analysis of apparent diffusion coefficient help discriminate between benign and malignant nodes in head and neck squamous cell carcinoma?**  
Purpura P, Punwani S, Bainbridge A, Price D, Vaitilingam T, Stevens N, Fitzke H, Beale T, Morley S, Forster M, Mendes R (*UK*)
- 14.10 FP **Incidental F-18 FDG positive focal thyroid nodules on PET/CT: evaluation and outcome**  
Straiton JB, Bethapudi S, Poon FW, O'Neill G (*UK*)
- 14.20 FP **Positron emission tomography - Computed tomography in head and neck radiology**  
Kuruppu D, Bull M, Rock B, Higgins S, Sulkin T (*UK*)
- 14.30 FP **The identification of cranial sutures on MRI: a review and report of preliminary findings using "Black Bone" MRI**  
Eley KA, Watt-Smith SR, Sheerin F, Taylor N, Golding SJ (*UK*)
- 14.40 FP **Spirotome macrobiopsy for head & neck lesions**  
Janssens J (*Belgium*)
- 14.50 FP **Comparison of dose of cone beam tomography and CT in diagnostics of paranasal sinuses**  
Güldner C, Ningo A, Savvateeva D, Diogo I, Voigt J, Werner JA, Fiebich M (*Germany*)

- 15.00 FP **Influence of low-dose protocols on the accuracy of image-guided craniofacial and skull base surgery**  
Widmann G, Fasser M, Schullian P, Zangerl A, Puelacher W, Riechelmann H, Bale R (*Austria*)
- 15.10 FP **Maxillo-facial traumas – New approaches with CBCT**  
Martin-Duverneuil N, Chiras J (*France*)
- 15.20 FP **The effects of compression on the image quality of digital panoramic radiographs**  
Yasar F, Yesilova E, Apaydin B (*Turkey*)

15.30-16.00 Coffee Break

**Room Ambassadeur**  
**Parallel Session**

**16.00-17.50 Maxillofacial and branchial arch malformations**

Chairs: M. Elmaleh, *Paris, France*  
 S. Golding, *Oxford, UK*

- 16.00 IL **Neural crest in maxillofacial and branchial morphogenesis**  
 S. Creuzet, *Gif-sur-Yvette, France*
- 16.35 IL **Abnormal development: when and how it goes wrong**  
 T. Naidich, *New York, USA*
- 17.15 IL **Congenital lesions of the neck: US, CT and MR findings**  
 J. Delanote, *Brugge, Belgium*

**Room Beethoven**  
**Parallel Session**

**16.00-17.50 Temporal Bone: Free Paper Session**

Chairs: S. Kösling, *Halle, Germany*  
 B. Schuknecht, *Zurich, Switzerland*

- 16.00 FP **Value of the internal auditory canal hypodensity on high resolution CT in otosclerosis**  
 Craighero F, Van Driessche V, van Dinther J, Offeciers EF, Casselman JW, Verstraete K (*Belgium*)
- 16.10 FP **Temporal bone fractures and related complications: CT findings in patients imaged in the acute emergency setting**  
Kohler R, Masterson K, Landis B, Guyot JP, Poletti PA, Becker M (*Switzerland*)

- 16.20 FP **Comparative study of multidetector CT and conebeam CT of the temporal bone: anatomy – otosclerosis – superior canal dehiscence, early experience and preliminary results**  
Volders D, De Foer B, Bacher C, Casselman JW (*Belgium*)
- 16.30 FP **Imaging follow-up of vestibular schwannomas. Is the long term MRI follow-up justified?**  
Romsauerova A, Szewczyk-Bieda M, Brunton JN (*UK*)
- 16.40 FP **Aetiology and clinical consequence of a widened incudo-stapedial gap in the fully aerated middle ear on computed tomography**  
Connor SEJ, Pai I, Jiang D, Fitzgerald O'Connor A (*UK*)
- 16.50 FP **Role of cone beam tomography in evaluation of cochlea implants**  
Güldner C, Diogo I, Weiß R, Bien S, Werner JA (*Germany*)
- 17.00 FP **Artifacts in cone beam tomography and cochlea implantation**  
Diogo I, Weiß R, Bien S, Werner JA, Güldner C (*Germany*)
- 17.10 FP **Development of an insertion model for cochlear implantation based on imaging evaluation of cochlear morphology**  
van der Marel KS, Verbist BM, Briaire JJ, Wolterbeek R, Frijns JHM (*the Netherlands*)
- 17.20 032 **Staging primary middle ear cholesteatoma with non-echoplanar (HASTE) diffusion weighted MRI helps plan surgery**  
Majithia A, Nash R, Khemani S, Kalan A, Singh A, Lingam RK (*UK*)
- 17.30 033 **Inner and middle ear malformations in the 22q11.2 deletion syndrome**  
Elmaleh-Bergès M, Le Garrec S, Baumann C, François M, Van den Abbeele T, Sebag G (*France*)
- 17.40 034 **CT-scan oval fossa measurement in pre operative otosclerosis surgery**  
Ukkola-Pons E, Ayache D, Pons Y, Williams M (*France*)
- 18.00- **City Visit / Walking Dinner**

**Room Ambassadeur**

**Plenary Session**

**08.30-10.15 Temporal bone - What the radiologist and surgeon should tell each other**

Chairs: R. Kuhweide, *Brugge, Belgium*  
F. Veillon, *Strasbourg, France*

**08.30 IL Cholesteatoma imaging today**

E. Offeciers & B. de Foer, *Antwerpen, Belgium*

**09.05 IL Congenital inner ear malformations and cochlear implants**

L. Sennaroglu & B. Ozgen, *Ankara, Turkey*

**09.40 IL Conductive hearing loss with an intact tympanic membrane**

E. Offeciers, *Antwerpen, Belgium* & J.W. Casselman, *Brugge, Belgium*

**10.15-10.45 Coffee Break**

**Room Ambassadeur**

**Parallel Session**

**10.45-12.30 Head & neck structures and their connection with cranial nerves and nuclei**

Chairs: G. Wilms, *Leuven, Belgium*  
N. Martin-Duverneuille, *Paris, Belgium*

**10.45 IL Anatomy of the cranial nerves, cranial nerve nuclei and tracts**

T. Naidich, *New York, USA*

**11.15 IL Symptoms-guided imaging of the cranial nerves and nuclei**

S. Kollias, *Zurich, Switzerland*

**11.40 IL Auditory and vestibular pathways: in vivo anatomy-pathology**

J.W. Casselman, *Brugge, Belgium*

**12.05 IL Imaging the anterior visual pathway**

P. Demaerel, *Leuven, Belgium*

## Room Beethoven

### Parallel Session

#### 10.45-12.30 Oral cavity

Chairs: D. Farina, *Brescia, Italy*  
B.-J. De Bondt, *Zwolle, the Netherlands*

10.45 IL **How medical imaging can influence the surgical decision making**

J. Abeloos, *Brugge, Belgium*

11.10 IL **Imaging of oral cavity cancer: what the surgeon wants to know**

F. Dubrulle, *Lille, France* & F. Bidault, *Villejuif, France*

11.35 IL **What's new with Positron Emission Tomography in oral cavity cancer**

G. Bonardel, *Paris, France*

12.00 IL **How to differentiate recurrence or post therapeutic changes in the oral cavity**

F. Bidault, *Villejuif, France* & G. Bonardel, *Paris, France*

12.30-14.00 Lunch

## Witte Roos

### 12.30 Best Poster Session (B)

## Room Mozart

### 12.30-13.15 Ultrasound Hands-on Session (3)

Instructors: T. Beale, *London, UK*  
L. Steyaert, *Brugge, Belgium*  
R. Evans, *Wales, UK*

### 13.15-14.00 Ultrasound Hands-on Session (4)

Instructors: T. Beale, *London, UK*  
L. Steyaert, *Brugge, Belgium*  
R. Evans, *Wales, UK*

**Room Ambassadeur  
Plenary Session**

**14.00-16.10 The Manusco Generation**

Chairs: A.A. Mancuso, *Gainesville FL, USA*  
J.W. Casselman, *Brugge, Belgium*

- 14.00 IL **“The hardest thing  
To do is call an imaging study negative”: a critical thinking  
approach to image interpretation**  
A. Mancuso, *Gainesville FL, USA*
- 14.45 IL **Temporal bone imaging: from basics to benchmark (and beyond)**  
M. Lemmerling, *Gent, Belgium*  
B. Verbist, *Leiden, the Netherlands*
- 15.25 IL **Imaging of the larynx and hypopharynx: The Gainesville  
Foundation**  
F. Pameijer, *Utrecht, the Netherlands*
- 15.45 IL **The larynx, hypopharynx and beyond: The Spin-Off**  
R. Hermans, *Leuven, Belgium*

**16.10-16.40 Coffee**

**Room Ambassadeur  
Plenary Session**

- 16.40 **Call - Multicentre study: image analysis-based staging of oral  
cancer and predicting survival**

**16.45-18.00 Interactive Quiz**

Chair: M.G. Mack, *Frankfurt, Germany*

Quiz masters: M.G. Mack, *Frankfurt, Germany*  
A. Borges, *Lisbon, Portugal*  
S. Bisdas, *Tuebingen, Germany*

**Room Ambassadeur  
General Assembly**

**18.00-18.30**

**20.00- Conference Dinner & Awards**

**Room Ambassadeur**  
**Plenary Session**  
*Joint with 4<sup>th</sup> International Congress & Workshops*  
*3D Diagnosis and Virtual Treatment Planning of*  
*Cranio-Maxillo-Facial Deformity*

**08.30-10.15 Cone Beam CT**

Chairs: G. Swennen, *Brugge, Belgium*  
J. Widelec, *Brussels, Belgium*

- 08.30 IL Radiation aspects of TMJ Imaging - An update on dose and risk**  
J. Ludlow, *Chapel Hill, USA*
- 09.00 IL Dento-alveolar, implant & orthodontic indications for CBCT imaging**  
R. Jacobs, *Leuven, Belgium*
- 09.30 IL Use of CBCT in dental implant treatment**  
T.A. Larheim, *Oslo, Norway*

**10.00-10.30 Coffee Break**

- 10.30 IL Combination of CBCT imaging & 3D stereophotogrammetry in maxillo-facial deformity**  
S. Bergé, *Nijmegen, the Netherlands*
- 11.00 IL Other and new indications / quality**  
J.W. Casselman, *Brugge, Belgium*
- 11.30 Round Table: Which CBCT system should I buy?**  
Moderators: G. Swennen, *Brugge, Belgium*  
J.W. Casselman, *Brugge, Belgium*

**Room Ambassadeur**  
**12.00-12.15 ESHNR Closing Ceremony**

**12.15-12.30 Lunch**

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## Refresher Course 2011 of the European Society of Head & Neck Radiology

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**Saturday 10 September 2011**

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### Room Ambassadeur

#### 13.30-15.30 Refresher Course – Part 1

Chair: A. Borges, *Lisbon, Portugal*

- 13.30 IL **Anatomy of the skull base**  
H.B. Eggesbø, *Oslo, Norway*
- 14.00 IL **Pathology of the anterior and central skull base**  
A. Borges, *Lisbon, Portugal*
- 14.30 IL **Temporal bone pathology**  
C. Czerny, *Vienna, Austria*
- 15.00 IL **The parapharyngeal space**  
M.G. Mack, *Frankfurt, Germany*

15.30-16.00 Coffee Break

### Room Ambassadeur

#### 16.00-18.00 Refresher Course – Part 2

Chair: F. Veillon, *Strasbourg, France*

- 16.00 IL **Cranial nerves I-VI**  
M. Lemmerling, *Gent, Belgium*
- 16.30 IL **Cranial nerves VII-XII**  
F. Veillon, *Strasbourg, France*
- 17.00 IL **The masticator space**  
M. Lemort, *Brussels, Belgium*
- 17.30 IL **The oral cavity and oropharynx**  
S. Golding, *Oxford, UK*

## E- Poster Session

- P001 Intra-oral versus cone beam computed tomography imaging assessing anatomy and pathology in the posterior maxilla**  
Shahbazian M, Vandewoude C, Jacobs R (*Belgium*)
- P002 MRI of olfactory dysfunction: how to do it and what to report?**  
Kohler R, Masterson K, Landis B, Becker M (*Switzerland*)
- P003 Relationship of shapes of macrocalcifications and malignancy: correlation with ultrasonographic and pathologic finding**  
Lee HB, Kim SH, Cho WH (*Singapore*)
- P004 Terson's syndrome: an often overlooked complication of a subarachnoidal hemorrhage**  
Eyselbergs M, Voormolen M, Snoeckx A, Vanhoenacker F, Parizel P (*Belgium*)
- P005 Head & neck calcifications on CT exams: appearance, significance and differential diagnosis**  
Vande Walle C, Kiendys U, Lemmerling M, Verstraete KL (*Belgium*)
- P006 Imaging of intralabyrinthine schwannomas: a pictorial essay**  
Eckel L, Neff B, Lane J (*USA*)
- P007 Readout-segmented echo-planar diffusion weighted imaging in head and neck tumours: a first clinical experience with the resolve sequence at 3 Tesla**  
Emonts P, Chao S, Van der Stappen A, Lefebvre Y, Lemort M (*Belgium*)
- P008 Additional findings on computed tomography of the paranasal sinuses: what radiologists can find**  
Macedo ACS, Nakamura OK, Garcia MRT, Soares CR, Daniel MM, Gomes RLE, Funari MBG (*Brazil*)
- P009 Normal variants of head and neck anatomy: a pictorial review**  
McCleery MA, O'Neill GTJ (*UK*)
- P010 Ethmoid sinus osteoma: clinical and radiological aspects and surgical management**  
Pons Y, Ukkola-Pons E, Herman P (*France*)
- P011 MR imaging of the diplopia patient: how I do it? How to make a structured report? What can I expect to see?**  
Kiendys U, Vande Walle C, Lemmerling M, Verstraete KL (*Belgium*)
- P012 Submandibular masses: imaging and pathological correlation**  
Bull MD, Kuruppu D, Garner S, Anand P, Bowden J (*UK*)
- P013 Perineural tumor spread: Facial and Trigeminal nerves communications - Pictorial essay**  
Murakoshi R, Garcia M, Martins E, Gebrim E, Cevasco F, Daniel M, Gomes R (*Brazil*)
- P014 Odontogenic tumours - A pictorial review**  
Bull MD, Kuruppu D, Simpson RHW, Gafoor A (*UK*)

- P015 Multislice CT features in tracheal stenosis multidisciplinary management and follow up**  
Pineda - Ordóñez D, Bolano M, Escobar I, Román R (*Argentina*)
- P016 Intensely enhancing neck nodes on contrast enhanced CT and its causes - A pictorial essay**  
Krishna Mohan G, Tiong Yong T, Julian GN 1, Cheng LS (*Singapore*)
- P017 Pictorial review of common and unusual diseases of the Calvarium**  
Moon W-J 1, Roh HG, Choi JW (*Korea*)
- P018 Imaging findings in oropharynx malignancies**  
Popita C, Hedesiu M, Popita RA, Preda D, Popita V (*Romania*)
- P019 CBCT evaluation of dense bone island in Polish population**  
Rozylo TK, Rozylo-Kalinowska I (*Poland*)
- P020 The spongiform thyroid nodule**  
Cowell GW, O'Neill G (*UK*)
- P021 External auditory canal - The neglected tube**  
Suresh Babu S, Hoosein M, Vaidhyanath R (*UK*)
- P022 Medial canthus of orbit - Imaging anatomy & pathology review**  
Suresh Babu S, Botchu R, Vaidhyanath R (*UK*)
- P023 Imaging aspects of periodontal disease in patients with ischemic cerebrovascular accidents**  
Haba D, Teslaru S, Ungureanu D, Cianga C, Hodorog D, Nemtoi A, Ladunca O, Hedesiu M, Alecu C (*Romania*)
- P024 How to detect labyrinth malformations: a systematic method**  
Tanguy J-Y, El Raï S, Caroff J, Abi-Khalil S, Noizet E, Lignon G, Pasco-Papon A (*France*)
- P025 Magnetic resonance imaging of temporomandibular joint in juvenile idiopathic arthritis patients**  
Neimane L, Dzelzīte S, Urtane I (*Latvia*)
- P026 Osteomyelitis of the central skull base: otogenic and odontogenic sources. Multidetector CT study**  
Shama S (*Egypt*)
- P027 Advanced imaging method in TMJ diagnosis**  
Mirzaey M (*Iran*)
- P028 Evaluation of alveolar bone density at furcation sites using computer tomography in patients with horizontal bone loss**  
Dumitrescu AL, Teslaru S, Zetu L, Haba D (*Romania*)

# Posters – Case report

- P029 Unilateral malformation of the hyoid**  
Widmann G, Gina L, Appenroth-Gamper E (*Austria*)
- P030 Masticatory space soft tissue chondroma: a case report**  
Mathur S, Desai N (*UK*)
- P031 There's a worm in my ear! An unusual presentation of a mastoid cholesteatoma**  
Goh JPN, Yeo SB, Loke S (*Singapore*)
- P032 Persistent facial swelling and tinnitus complicating septorhinoplasty: report of an unusual case**  
Van der Zijden T, Claes J, Vanhoenacker F, Claes G (*Belgium*)
- P033 Pyomyositis of sternocleidomastoid: a case report**  
Desai N, Mathur S (*UK*)
- P034 MRI findings in a patient with inflammatory pseudotumor of the neck causing Tapia's syndrome**  
Lo Casto A, La Bella V, Purpura P, Galbo L, Spataro R, La Tona G (*Italy*)
- P035 Giant bilateral paragangliomas of the carotid space mimicking OSA syndrome: a case report**  
Gerevini S, Fabiano B, Palonta F, Bussi M (*Italy*)
- P036 Initial spontaneous regression of a nasal squamous cell carcinoma - A case report**  
Tozakidou M, Jakscha J, Stippich C, Fischmann A (*Switzerland*)
- P037 Osteoblastoma of the zygomatic process of temporal bone**  
Celenk P, Demirtürk H, Karlı R, Celenk C, Baris S (*Turkey*)
- P038 Parotid acinic cell carcinoma in a pregnant patient: a case report**  
Marinescu Gava M, Vimpeli S-M (*Finland*)
- P039 CBCT follow-up of spontaneous healing of a bone cyst**  
Rozylo TK, Rozylo-Kalinowska I (*Poland*)
- P040 Non-ferromagnetic cochlear implants compatibility with magnetic resonance imaging brain scanning in follow-up of patients with concomitant brain disease**  
Tielemans J, Thielmann U, Spreng M, Issing PR (*Germany*)