9th ISSS
International Surgical
Sleep Society Meeting

5–7 APRIL 2018 | MUNICH

PROGRAM
26th ANNUAL MEETING
GERMAN SLEEP SOCIETY (DGSM)

SLEEP IS MEDICINE!

Programme
Keynote and opening lectures
Scientific symposia
Oral and poster presentations
Training courses
Training courses especially for TA

Young scientists symposium
Industrial exhibition
Industrial symposia
Meetings of DGSM work groups

NUREMBERG 2018
11–13 OCTOBER

Abstract deadline: 15 May 2018
Early bird registration: 15 July 2018

www.dgsm-kongress.de
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ORGANIZATION

Venue
Klinikum rechts der Isar
Technical University of Munich
Lecture Theatre Building (Hörsaaltrakt)
Ismaninger Straße 22  I  81675 Munich, Germany

Conference website
www.isss-munich.com

Conference chairs
Priv.-Doz. Dr. med. Clemens Heiser
Department of Otorhinolaryngology,
Head and Neck Surgery,
Klinikum rechts der Isar,
Technical University of Munich, Germany

Prof. Dr. med. Thomas Verse
Asklepios Clinic Hamburg
Department of Otorhinolaryngology, Head and Neck Surgery

Hosting society
International Surgical Sleep Society

Conference organization
Conventus Congressmanagement & Marketing GmbH
Tina Markert
Carl-Pulfrich-Str. 1  I  07745 Jena(DE)
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tina.markert@conventus.de  I  www.conventus.de

Auspices and endorsement
European Respiratory Society (ERS)

German Society of Oto-Rhino-Laryngology,
Head and Neck Surgery (DG HNO)

German Sleep Society (DGSM)
Dear colleagues and friends,

It is our great honor to host the International Surgical Sleep Society Meeting (ISSS) 2018 in Munich (Germany) from 5–7 April 2018, and we hereby gladly invite you to participate in this unique event.

The meeting is focused on the pathophysiology of Obstructive Sleep Apnea (OSA) and its treatment options. You will be able to attend a range of live educational events involving key opinion leaders, scientific abstracts, case discussions and technical tips, within different workshops.

In addition, this is also an excellent opportunity to explore the Bavarian capital city Munich and capture the real “Bavarian” feeling. The venue is located directly in the city, so that you can explore the historical downtown with various famous sights for example the “Marienplatz”, “Viktualienmarkt” or the “Maximilianstraße”.

The social evening will be held in the “Hofbräukeller” with assorted delicious Bavarian food and beverages.

So join us and take part in this outstanding event, participate at the ISSS 2018 meeting.

We are looking forward to welcome you in Munich!

Clemens Heiser & Thomas Verse
Conference chairs
Dear colleagues,

increasing numbers of patients with sleep associated health disorders point to the emerging importance of sleep medicine. The upcoming International Surgical Sleep Society Meeting (ISSS) 2018 in Munich documents the broad spectrum of topics associated with this important multidisciplinary field of medicine. Participants will find talks to predisposition, epidemiology, diagnostics, as well as current and future treatment options.

It is a great honour and pleasure that members from the German Society of Otorhinolaryngology, Head and Neck Surgery, organize the meeting, having the greatest possible support from our society.

Modern life offers so many opportunities that making good choices is important to stay in healthy shape... so make good choices in food, in physical activities, in the work life balance, the choice of good sleep and the choice of excellent conferences to attend. Actively taking part in the International Surgical Sleep Society Meeting (ISSS) 2018 certainly is such a good choice.

I wish the conference all the best success in deepening multidisciplinary friendship and science.

Kind regards

Barbara Wollenberg
President German Society of Oto-Rhino-Laryngology, Head and Neck Surgery
Dear colleagues,

We welcome you to the 9th International Surgical Sleep Society (ISSS) meeting which is held this year in Munich, Germany. We are happy that you decided to come to the nice city of Munich for this international meeting.

In Germany we have a strong interdisciplinary Society on Sleep Research which includes the disciplines of Pneumology, Cardiology, Neurology, Psychiatry, ENT, Maxillo-mandibular surgery, Pediatrics, Psychology.

The ISSS is organized by two esteemed members of the German Sleep Society, Priv.-Doz. Dr. C. Heiser and Prof. Dr. T. Verse. Both are very active in the German Sleep Society in promoting the ENT discipline and surgical interventions as an important option among the treatment modalities for Obstructive Sleep Apnea.

With the interdisciplinary approach for sleep medicine in mind we are happy to see your special topic conference with new research results and review reports. From the exciting program we see that you take care of our broad approach and we hope that you enjoy the conference and the town of Munich and Germany as well.

Enjoy your stay in our country,

Alfred Wiater
President German Sleep Society (DGSM)

Thomas Penzel
Secretary German Sleep Society (DGSM)
FACULTY

Peter Baptista (Pamplona/ES)
Linda Benoist (Amsterdam/NL)
Marc Blumen (Paris/FR)
Maurits Boon (Philadelphia, PA/US)
Robson Capasso (Palo Alto, CA/US)
Marina Carrasco-Llatas (Valencia/ES)
Víctor Cerral (Ovar/PT)
Frédéric Chabolle (Suresnes/FR)
Shintaro Chiba (Kawasaki-city/JP)
Christel de Raaff (Amsterdam/NL)
Andrea De Vito (Forli/IT)
Nico de Vries (Amsterdam/NL)
Mark DeAgostino (New Haven, CT/US)
Raj Dedhia (Atlanta, GA/US)
Karl Doghramji (Philadelphia, PA/US)
Bruno Duarte (Campinas/BR)
Danny Eckert (Randwick, Sydney/AU)
Günther Edenharter (Munich/DE)
Joachim Ficker (Nuremberg/DE)
Matthias Frerick (Munich/DE)
Danielle Friberg (Uppsala/SE)
Mustafa Gerek (Ankara/TR)
Boyd Gillespie (Memphis, TN/US)
Clemens Heiser (Munich/DE)
Michael Herzog (Cottbus/DE)
Benedikt Hofauer (Munich/DE)
Winfried Hohenhorst (Essen/DE)
Martin Hopp (Los Angeles, CA/US)
Karl Hörmann (Mannheim/DE)
Colin Huntley (Philadelphia, PA/US)
Stacey L. Ishman (Cincinnati, OH/US)
Eric Kezirian (Los Angeles, CA/US)
Bhik Kotecha (London/GB)
Ioannis Koutsourelikas (Athens/GR)
Thomas Kühnel (Regensburg/DE)
Hsin-Ching Lin (Kaohsiung City/TW)
Stanley Yung-Chuan Liu (Stanford, CA/US)
Rodolfo Lugo-Saldaña (Monterrey/MX)
Stuart MacKay (Wollongong/AU)
Joachim T. Maurer (Mannheim/DE)
Sam Mickelson (Atlanta, GA/US)
Ron B. Mitchell (Dallas, TX/US)
Nestor Montesdeoca (Madrid/ES)
Filippo Montevecchi (Forli/IT)
Itsuo Nakajima (Tochigi-ken, Shimotsuga-gun/JP)
Nikolaus Netzer (Bad Aibling/DE)
Peter O’Connor (Ramstein/DE)
Ewa Olszewska (Bialystok/PL)
Kenny P. Pang (Singapore/SG)
Václav Pavelec (Plzen/CZ)
Thomas Penzel (Berlin/DE)
Pierre Philip (Bordeaux/FR)
Wolfgang Pirsig (Ulm/DE)
Winfried Randerath (Solingen/DE)
Madeline Ravesloot (Amsterdam/NL)
Philippe Rombaux (Brussels/BE)
Brian Rotenberg (London/CA)
Ryan Soose (Pittsburgh, PA/US)
Armin Steffen (Lübeck/DE)
Boris A. Stuck (Marburg/DE)
Maria V. Suurma (New York, NY/US)
Erica Thaler (Philadelphia, PA/US)
Song Tar Toh (Singapore/SG)
Peter van Maanen (Amsterdam/NL)
Olivier M. Vanderveken (Antwerpen, Edegem/BE)
Johan Verbraecken (Edegem/BE)
Thomas Verse (Hamburg/DE)
Claudio Vicini (Forli/IT)
Patty Vonk (Amsterdam/NL)
Ed Weaver (Seattle, WA/US)
Silke Anna T. Weber (Botucatu/BR)
Holger Woehrle (Ulm/DE)
B. Tucker Woodson (Milwaukee, WI/US)
Kathleen Yaremchuk (Detroit, MI/US)
Fahri Yildiz (Cologne/DE)
Edilson Zancanella (Indaiatuba/BR)
<table>
<thead>
<tr>
<th>Time</th>
<th>Lecture hall B</th>
<th>Lecture hall C</th>
<th>Seminar room 1</th>
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<tbody>
<tr>
<td>09:00–16:00</td>
<td><strong>Pre-Course</strong> Training in upper airway stimulation with 3D live-implant</td>
<td><strong>Pre-Course</strong> Training and cases in decision making – Which treatment is suitable for which patient?</td>
<td><strong>Pre-Course</strong> DISE – Training course</td>
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**PROGRAM OVERVIEW | FRIDAY, 6 APRIL**

<table>
<thead>
<tr>
<th>Lecture hall A</th>
<th>Lecture hall B</th>
<th>Lecture hall C</th>
<th>Foyer</th>
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<tbody>
<tr>
<td><strong>09:00–09:15</strong></td>
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<tr>
<td>Welcome reception</td>
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<tr>
<td><strong>09:15–10:30</strong></td>
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<tr>
<td>Symposium 1</td>
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<tr>
<td>Landscapes in OSA 2018</td>
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<td>p. 14</td>
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<tr>
<td><strong>Coffee break and industrial exhibition</strong></td>
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<tr>
<td><strong>11:00–12:30</strong></td>
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<tr>
<td>Symposium 2</td>
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<td>Individualizing OSA treatment: beyond CPAP for all</td>
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<td><strong>12:40–13:25</strong></td>
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<tr>
<td>Lunch symposium</td>
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<tr>
<td><strong>Coffee break and industrial exhibition</strong></td>
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<td><strong>13:30–15:00</strong></td>
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<tr>
<td>Symposium 3</td>
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<tr>
<td>CPAP and its future in a world of diversified OSA treatments</td>
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<td><strong>Symposium 4</strong></td>
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<tr>
<td>The role of the nose in the upper airway</td>
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<tr>
<td><strong>14:00–15:00</strong></td>
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<tr>
<td>Sleep surgery in Asia, past and now</td>
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<tr>
<td><strong>Coffee break and industrial exhibition</strong></td>
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<tr>
<td><strong>15:30–17:00</strong></td>
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<tr>
<td>Symposium 5</td>
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<tr>
<td>Surgical modifications of the soft palate and snoring</td>
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<td><strong>17:05–17:35</strong></td>
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<tr>
<td>Panel discussion: Xill implant side effects, adverse outcomes &amp; complications</td>
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<td><strong>17:50–18:20</strong></td>
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<tr>
<td>Symposium 6</td>
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<td>The history surgery for sleep apnea in Germany and Europe</td>
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<tr>
<td><strong>18:20–19:20</strong></td>
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<tr>
<td>Keynote lecture</td>
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<tr>
<td>Pathway to target therapy in different phenotypes of OSA</td>
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<tr>
<td><strong>from 19:30 Social evening in the &quot;Hofbräukeller München&quot;</strong></td>
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<td>p. 52</td>
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<tr>
<td>Time</td>
<td>Lecture hall A</td>
<td>Lecture hall B</td>
<td>Lecture hall C</td>
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<tr>
<td>09:00–10:30</td>
<td>Symposium 7</td>
<td>Symposium 8</td>
<td>Short talks</td>
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<td></td>
<td>Tongue base</td>
<td>Surgical modifications of the soft palate in OSA</td>
<td>Diagnostic in sleep apnea &amp; drug-induced sleep endoscopy (DISE) I</td>
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<tr>
<td>11:00–12:30</td>
<td>Coffee break and industrial exhibition</td>
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<tr>
<td>13:30–15:00</td>
<td>Symposium 9</td>
<td>Symposium 10</td>
<td>Short talks</td>
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<tr>
<td></td>
<td>Hypoglossal nerve stimulation / Upper airway stimulation in OSA</td>
<td>Oral appliance &amp; maxillomandibular advancement (MMA)</td>
<td>Drug-induced sleep endoscopy (DISE) II &amp; nose</td>
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<tr>
<td>15:30–16:45</td>
<td>Symposium 12</td>
<td>Short talks</td>
<td>Short talks</td>
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<tr>
<td></td>
<td>Pediatric sleep disordered breathings (SDB) – role of conservative and surgical therapies</td>
<td>Soft palate I</td>
<td>Multi-level surgery</td>
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<tr>
<td>16:45–17:00</td>
<td>Fare well, next meeting</td>
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</table>
A separate registration for all three pre-courses is necessary. Please register online at www.isss-munich.com.

**09:00–16:00**  
**Pre-course**  
**Lecture hall B**  
Training in upper airway stimulation with 3D live-implant

**Course directors**  
Clemens Heiser (Munich/DE), Peter Baptista (Pamplona/ES)  
Armin Steffen (Lübeck/DE), Olivier M. Vanderveken (Antwerpen, Edegem/BE)  
Benedikt Hofauer, Markus Wirth (Munich/DE), Thomas Verse (Hamburg/DE)

**09:00**  
Anatomical backgrounds and the nerve diversity  
Clemens Heiser (Munich/DE)

**09:30**  
Function of airway stimulation on the upper pharynx  
Thomas Verse (Hamburg/DE)

**Patient selection**  
10:00  
General patient characteristics for implant  
Peter Baptista (Pamplona/ES)

10:15  
DISE as a screening or tool – or something else?  
Peter Baptista (Pamplona/ES)

**Implant procedure**  
11:00  
Theoretically  
Armin Steffen (Lübeck/DE)

11:30  
Live Implantation  
Clemens Heiser, Markus Wirth, Benedikt Hofauer (Munich/DE)

13:00–14:00  
Lunch break

**Postoperative care**  
14:00  
Patient activation (real cases)  
Olivier M. Vanderveken (Antwerpen, Edegem/BE)

14:30  
Tongue motions and its clinical outcome  
Olivier M. Vanderveken (Antwerpen, Edegem/BE)

15:00  
Titration in the sleep lab (advanced titrations)  
Benedikt Hofauer (Munich/DE)

15:30  
Trouble shooting with patients  
Benedikt Hofauer (Munich/DE)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Details</th>
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<tr>
<td>09:00–13:00</td>
<td>Pre-course</td>
<td>Lecture hall C</td>
<td>Training and cases in decision making – Which treatment is suitable for which patient?</td>
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<td>Course directors: Thomas Verse (Hamburg/DE), Boris A. Stuck (Marburg/DE), Joachim T. Maurer (Mannheim/DE), Nico de Vries (Amsterdam/NL)</td>
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<tr>
<td>09:30–15:30</td>
<td>Pre-course</td>
<td>Seminar room 1</td>
<td>DISE – Training course</td>
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<td>Course directors: Marina Carrasco-Llatas (Valencia/ES), Andrea De Vito (Forli/IT), Winfried Hohenhorst (Essen/DE), Günther Edenharter (Munich/DE), Michael Herzog (Cottbus/DE)</td>
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<tr>
<td>09:30</td>
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<td></td>
<td>The need of DISE (Pro and Cons)</td>
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<td>10:00</td>
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<td>Changes in the sleep architecture and upper airway during natural sleep and sedation</td>
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<td>Günther Edenharter (Munich/DE)</td>
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<td>10:30</td>
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<td>DISE – concept, indications, contraindications and reliability/validity</td>
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<td>Andrea De Vito (Forli/IT)</td>
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<td>11:00</td>
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<td>How to do it (maneuvers, oral devices and classifications of the findings)</td>
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<td>Marina Carrasco-Llatas (Valencia/ES)</td>
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<td>11:30</td>
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<td>Results of DISE – changes in therapeutic procedure</td>
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<td>Michael Herzog (Cottbus/DE)</td>
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<tr>
<td>12:00–13:00</td>
<td>Lunch break</td>
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<td>13:00</td>
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<td>Pediatric DISE</td>
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<td>Winfried Hohenhorst (Essen/DE)</td>
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<td>13:15</td>
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<td>Analysis of DISE induced snoring sounds</td>
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<td>Michael Herzog (Cottbus/DE)</td>
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<td>13:35–15:30</td>
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<td>Clinical cases Live DISE and videos</td>
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</tbody>
</table>
09:00–09:15  Welcome reception  
Lecture hall A  
Chairs Clemens Heiser (Munich/DE), Thomas Verse (Hamburg/DE)

09:00  Welcome note of the conference chairs  
Clemens Heiser (Munich/DE), Thomas Verse (Hamburg/DE)

09:02  Welcome note of the president of the International Surgical Sleep Society (ISSS)  
Stacey L. Ishman (Cincinnati, OH/US)

09:05  Welcome note of the president of the German Sleep Society (DGSM)  
Alfred Wiater (Cologne/DE)

09:10  Welcome note of a representative of the German Society of Otorhinolaryngology, Head and Neck Surgery (DG HNO)  
Karl Hörmann (Mannheim/DE)

09:15–10:30  Symposium 1  
Lecture hall A  
Chairs Clemens Heiser (Munich/DE), Thomas Verse (Hamburg/DE)

09:15  Redefining OSA – what else than airway obstructions and daytime sleepiness?  
Joachim T. Maurer (Mannheim/DE)

09:30  Setting up a multidisciplinary sleep medicine program: the Jefferson model  
Karl Doghramji (Philadelphia, PA/US)

09:45  How to increase ENT presence in sleep medicine  
Edilson Zancanella (Indaiatuba/BR)

10:00  Clinical endpoints in OSA – how to measure success  
Kenny P. Pang (Singapore/SG)

10:15  OSA, anesthesia and bariatric surgery  
Christel de Raaff (Amsterdam/NL)

10:30–11:00  Coffee break in the industrial exhibition
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:00–12:30</td>
<td><strong>Symposium 2</strong>&lt;br&gt;<strong>Individualizing OSA treatment – beyond CPAP for all</strong>&lt;br&gt;Andrea De Vito (Forli/IT), Bruno Duarte (Campinas/BR)</td>
</tr>
<tr>
<td>11:00</td>
<td>Conservative therapies in recent treatment guidelines: the ENTs perspective&lt;br&gt;Boris A. Stuck (Marburg/DE)</td>
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<tr>
<td>11:15</td>
<td>Surgical therapies in recent treatment guidelines: the Pulmonologists perspective&lt;br&gt;Johan Verbraecken (Edegem/BE)</td>
</tr>
<tr>
<td>11:30</td>
<td>The role of DISE in individualized OSA treatments&lt;br&gt;Marc Blumen (Paris/FR)</td>
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<tr>
<td>11:40</td>
<td>Update on the EUROPEAN position paper in DISE&lt;br&gt;Marina Carrasco-Llatas (Valencia/ES)</td>
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<tr>
<td>11:50</td>
<td>DISE and maneuvers during DISE&lt;br&gt;Madeline Ravesloot (Amsterdam/NL)</td>
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<tr>
<td>12:00</td>
<td>Round-table discussion: Is DISE accurate enough for procedure selection?&lt;br&gt;How to connect ENT and pulmonology for an improved therapy selection?</td>
</tr>
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<p>| 11:00–12:30 | <strong>Short talks</strong>&lt;br&gt;<strong>Tongue base and nose</strong>&lt;br&gt;Ira Sanders (Pittsburgh, PA/US), Xiangmin Zhang (Guangzhou/CN) |
| 11:00       | Role of static versus dynamic tongue base evaluation in decision making in tongue base surgery in Obstructive Sleep Apnea patients&lt;br&gt;Ahmed Elsobky (Mansoura/EG) |
| 11:10       | Corrective procedures of the tongue base using Shaver and plasma-PK techniques in the treatment of snoring and sleep apnea – own experience&lt;br&gt;Michał Michalik, Wiesław Konopka, Agata Gerwel (Warsaw/PL) |
| 11:20       | A novel surgical procedure for Obstructive Sleep Apnea by adjustable lingual septum suspension&lt;br&gt;Xiangmin Zhang (Guangzhou/CN) |</p>
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 11:30 | Adjustable tongue suspension combined with uvulopalatopharyngoplasty for treatment of severe Obstructive Sleep Apnea   
       | Xiangmin Zhang (Guangzhou/CN)                                           |
| 11:40 | Role of endoscopic midline glossectomy in Obstructive Sleep Apnea management  
       | Susan K. Sebastian (Delhi/IN)                                          |
| 11:50 | Feasibility trial of a novel device, the linguaflex tongue retractor (LTR), for tongue base suspension to treat Obstructive Sleep Apnea (OSA)   
       | Ira Sanders (Pittsburgh, PA/US), Peter Catalano (Boston, MA/US)       
       | Balwinder Singh (Putrajaya/MY), Asif Amirali                         
       | Jon Buzzard (Pittsburgh, PA/US)                                      |
| 12:00 | New technique of Hyo-mandibular suspension in the treatment of Obstructive Sleep Apnea – a preliminary study   
       | Yongwan Kim, Myoungjoo Kang, Seong Kook Park                         
       | Jun-Ook Park (Busan/KR)                                              |
| 12:10 | Biomechanical and stress distribution effects of maxillary expansion methods (SARPE, MARPE, DOME) using finite element modeling   
       | Yu Feng Chen (Kaohsiung/TW), Audrey Yoon (Los Angeles, CA/US)        
       | Stanley Yung-Chuan Liu (Palo Alto, CA/US), Hung Chih Chang           
<pre><code>   | Yung Chuan Chen (Tainan/TW)                                          |
</code></pre>
<p>| 12:20 | How OSAHS patient looks like                                            |
| Nuria Pérez-Martín, Gabriela Bosco, Guillermo Plaza Mayor (Fuenlabrada/ES) |
| 12:40–13:25 | Lunch symposium (Lecture hall B) see page 38                            |
| 12:40–13:25 | Lunch symposium (Lecture hall C) see page 38                            |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tr>
<td>13:30–15:00</td>
<td><strong>Symposium 3</strong></td>
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<tr>
<td></td>
<td><strong>CPAP and its future in a world of diversified OSA treatments</strong></td>
<td>Thomas Penzel (Berlin/DE), Claudio Vicini (Forli/IT)</td>
</tr>
<tr>
<td>13:30</td>
<td>State of the art – different modes of PAP and its future developments</td>
<td>Thomas Penzel (Berlin/DE)</td>
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<tr>
<td>13:45</td>
<td>Clinical efficacy of CPAP machines – All the same?</td>
<td>Holger Woehrle (Ulm/DE)</td>
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<tr>
<td>14:00</td>
<td>Improving outcomes with combined treatments – CPAP and surgery (ENTs perspective)</td>
<td>Joachim T. Maurer (Mannheim/DE)</td>
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<tr>
<td>14:10</td>
<td>CPAP intolerance – the psychiatrist’s perspective</td>
<td>Pierre Philip (Bordeaux/FR)</td>
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<tr>
<td>14:20</td>
<td>OSA and driving – the new EU directive and its implementation status</td>
<td>Winfried Randerath (Solingen/DE)</td>
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<td></td>
<td><strong>Round-table: Discussion and ask the experts</strong></td>
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<td>13:30–15:00</td>
<td><strong>Symposium 4</strong></td>
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<tr>
<td></td>
<td><strong>The role of the nose in the upper airway</strong></td>
<td>Sam Mickelson (Atlanta, GA/US), Philippe Rombaux (Brussels/BE)</td>
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<tr>
<td>13:30</td>
<td>Pathophysiology – nose and sleep disordered breathing</td>
<td>Maria V. Suurna (New York, NY/US)</td>
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<td>13:45</td>
<td>Subjective and objective outcome of nasal surgery for sleep disordered breathings SDB</td>
<td>Colin Huntley (Philadelphia, PA/US)</td>
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<tr>
<td>14:00</td>
<td>Nose and PAP – improving adherence with combination treatments</td>
<td>Brian Rotenberg (London, Ontario/CA)</td>
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<tr>
<td>14:10</td>
<td>Is the evaluation of the nose really important in OSA?</td>
<td>Literature review and clinical experience</td>
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<td><strong>10</strong></td>
<td>Alessandro Bucci (Senigallia/IT)</td>
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<tr>
<td>14:20</td>
<td>The role of allergies in SDB</td>
<td>Ioannis Koutsourelakis (Athens/GR)</td>
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<td>14:30</td>
<td><strong>Round-table: Discussion and ask the experts</strong></td>
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<tr>
<td>14:00–15:00</td>
<td><strong>Sleep surgery in Asia, past and now</strong></td>
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<td><strong>Chairs</strong></td>
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<td>Itsuo Nakajima (Tochigi-ken, Shimotsuga-gun/JP)</td>
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<td>Shintaro Chiba (Kawasaki-city/JP)</td>
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<td>14:00</td>
<td>History of Asian sleep surgery including palatal surgery</td>
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<td>14:15</td>
<td>Transoral robotic surgery in Asian</td>
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<td>14:30</td>
<td>Skeletal surgery in Asia</td>
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<td>14:45</td>
<td>Future perspective of surgical treatment strategy in Asia</td>
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<td>15:00–15:30</td>
<td><strong>Coffee break in the industrial exhibition</strong></td>
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<td>15:30–17:00</td>
<td><strong>Symposium 5</strong></td>
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<td></td>
<td><strong>Surgical modifications of the soft palate and snoring</strong></td>
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<td></td>
<td>B. Tucker Woodson (Milwaukee, WI/US), Thomas Kühnel (Regensburg/DE)</td>
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<tr>
<td>15:30</td>
<td>Update on indications for surgical modifications of the soft palate for snoring</td>
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<td>Kathleen Yaremchuk (Detroit, MI/US)</td>
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<tr>
<td>15:45</td>
<td>How to measure and analyze snoring</td>
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<td></td>
<td>Thomas Kühnel (Regensburg/DE)</td>
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<tr>
<td>16:00</td>
<td>Recent developments in palatal surgery for snoring</td>
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<td></td>
<td>Ewa Olszewska (Bialystok/PL)</td>
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<td>16:10</td>
<td>Sleep tech and OSA – an update</td>
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<td>Robson Capasso (Palo Alto, CA/US)</td>
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<td>16:20</td>
<td>New surgical techniques of the soft palate – what we have learned from the past</td>
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<td>Peter O’Connor (Ramstein/DE)</td>
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<td>16:30</td>
<td>Round-table: Discussion and ask the experts</td>
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</tbody>
</table>
15:30–17:00 | **Short talks**

**Upper airway stimulation**

Nikolaus Netzer (Bad Aibling/DE), Kerstin Rohde (Hamburg/DE)

**The role of UPPP in outcomes of upper-airway stimulation therapy in patients with Obstructive Sleep Apnea**

Nils Abrams, Katrin Hasselbacher, Barbara Wollenberg (Lübeck/DE)
Maria V. Suurna (New York, NY/US), Armin Steffen (Lübeck/DE)

**Upper airway stimulation for OSA treatment – potential benefits on metabolism**

Armin Steffen, Rodrigo Chamorro, Laura Buyny, Katrin Hasselbacher
Barbara Wollenberg, Hendrik Lehnert, Anne Windjäger
Sebastian Schmid (Lübeck/DE)

**Upper airway stimulation in Obstructive Sleep Apnea – Can radiological cuff control predict tongue movement?**

Katrin Hasselbacher, Anna-Sophie Wozny, Jan-Peter Goltz, Inke R. König
Barbara Wollenberg, Armin Steffen (Lübeck/DE)

**Tips, tricks and tunneling – what we’ve relearned doing XII implant surgery**

Martin Hopp, Daryoush Saadat (Los Angeles, CA/US)

**Multi-institutional case series – hypoglossal nerve stimulation in three adults with Down syndrome and severe Obstructive Sleep Apnea**

Carol Li (New York, NY/US), Maurits Boon (Philadelphia, PA/US)
Stacey L. Ishman (Cincinnati, OH/US), Maria V. Suurna (New York, NY/US)

**Prevalence and clinical significance of positional Obstructive Sleep Apnea in patients treated with upper airway stimulation therapy**

Jolien Beyers, Marijke Dieltjens (Antwerpen, Edegem/BE), Patty Vonk
Madeline Ravesloot (Amsterdam/NL), Marc Willemen (Edegem/BE)
Johan Verbraecken, Paul Van de Heyning, (Edegem, Antwerpen/BE)
Nico de Vries (Edegem/BE, Amsterdam/NL)
Olivier M. Vanderveken (Edegem, Antwerpen/BE)

**Selective upper airway stimulation effective in upper and lower obstructions**

Markus Wirth, Benedikt Hofauer, Maximilian Bautz
Clemens Heiser (Munich/DE)
16:40 Comparison of TORS multilevel surgery versus hypoglossal nerve stimulator – a new treatment paradigm
Ashley Bauer, Cher (Xue) Zhao, Matt Spector, Paul Hoff (Ann Arbor, MI/US)

16:50 The ADHERE registry – clinical outcome, adherence and safety of selective upper airway stimulation in 12 centers worldwide
Zhaojun Zhu, Benedikt Hofauer, Clemens Heiser (Munich/DE)

15:30–17:00 Short talks
Lecture hall C

15:30 Role of transpalatal advancement pharyngoplasty in management of lateral pharyngeal wall collapse at the hypopharyngeal level in OSA patients
Ahmed Elsobky (Mansoura/EG)

15:40 High dependency care for patients after sleep apnea surgery – Is it necessary?
Wei Sian Lim, Sue Rene Soon, Ranjit Gabriel Magherra, Vijayaraj Thirunavukarasu (Singapore/SG)

15:50 Can we improve epworth sleepiness scale with an additional question
Coimbatore Praveena, Andrew Cruise, Talat Butt (Frimley, Surrey/GB)

16:00 Laryngeal Obstructive Sleep Apnea
Sandeep Bansal (Chandigarh/IN)

16:10 Safety of ambulatory surgery in patients with Obstructive Sleep Apnea
Colin Huntley, Patrick Hunt, Michael Mullen, Nicholas Taflin, Maurits Boon (Philadelphia, PA/US)

16:20 Automated sleep stage, apnea, and hypopnea scoring using deep learning
Linda Zhang, Daniel Fabbri, Raghu Upender, David Kent (Nashville, TN/US)

16:30 Surgical versus conventional weight loss therapy for Obstructive Sleep Apnea – a randomized controlled trial – quantitative and qualitative outcome
Mawaddah Azman, Ng Sze Yin, Marina Mat Baki, Abdullah Sani, Nik Ritza Kosai (Bandar Tun Razak, Cheras/MY)

16:40 Sexual quality of life and sexual health in OSA patients
Martin Hopp, Daryoush Saadat (Los Angeles, CA/US)
16:50 Which subgroup of patients with Obstructive Sleep Apnea should be screened for depression?
Josie Xu (Toronto/CA), Kenny P. Pang (Singapore/SG)
Brian Rotenberg (London/CA)

17:05–17:35 Panel discussion
Lecture hall B
XII implant side effects, adverse outcomes and complications
Chair Martin Hopp (Los Angeles, CA/US)
Panel Maria V. Suurna (New York, NY/US)
Mark DeAgostino (New Haven, CT/US)
Maurits Boon (Philadelphia, PA/US)
Victor Certal (Ovar/PT)
Sam Mickelson (Atlanta, GA/US)
Thomas Verse (Hamburg/DE)

17:05–17:45 Guided ePoster session
Foyer see page 33

17:50–18:20 Symposium 6
Lecture hall A
The history surgery for sleep apnea in Germany and Europe
Chairs Karl Hörmann (Mannheim/DE), Thomas Verse (Hamburg/DE)
17:50 The history surgery for sleep apnea in Germany and Europe
Wolfgang Pirsig (Ulm/DE)

18:20–19:20 Keynote lecture
Lecture hall A
Pathway to target therapy in different phenotypes of OSA
Chair Eric Kezirian (Los Angeles, CA/US)
18:20 Phenotypic approaches to Obstructive Sleep Apnea – new pathways for targeted therapy
Danny Eckert (Randwick, Sydney/AU)

19:30–23:30 Social evening in the “Hofbräukeller München”
see page 52
<table>
<thead>
<tr>
<th>Time</th>
<th>Symposium</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>09:00–10:30</td>
<td>Symposium 7</td>
<td><strong>Tongue base</strong></td>
<td>Filippo Montevecchi (Forli/IT), Raj Dedhia (Atlanta, GA/US)</td>
</tr>
<tr>
<td>09:00</td>
<td></td>
<td>Update surgical anatomy for tongue base surgery</td>
<td>Filippo Montevecchi (Forli/IT)</td>
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<tr>
<td>09:15</td>
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<td>Role of tongue base procedures and implants in 2018 – Is there a future for it?</td>
<td>Václav Pavelec (Plzen/CZ)</td>
</tr>
<tr>
<td>09:30</td>
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<td>Value of TORS in OSA surgery</td>
<td>Hsin-Ching Lin (Kaohsiung City/TW)</td>
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<tr>
<td>09:40</td>
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<td>Pitfalls in tongue base procedures</td>
<td>Mustafa Gerek (Ankara/TR)</td>
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<tr>
<td>09:50</td>
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<td>Minimally invasive tongue base procedures</td>
<td>Rodolfo Lugo-Saldaña (Monterrey/MX)</td>
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<td>10:00</td>
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<td>Round-table: Discussion and ask the experts</td>
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<tr>
<td>09:00–10:30</td>
<td>Symposium 8</td>
<td><strong>Surgical modifications of the soft palate in OSA</strong></td>
<td>Frédéric Chabolle (Suresnes/FR), Danielle Friberg (Uppsala/SE)</td>
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<tr>
<td>09:00</td>
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<td>Actual role of classical UPPP procedures</td>
<td>Erica Thaler (Philadelphia, PA/US)</td>
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<tr>
<td>09:15</td>
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<td>Modifications of classical UPPP procedures to improve outcome</td>
<td>Thomas Verse (Hamburg/DE)</td>
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<tr>
<td>09:30</td>
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<td>Review of long-term outcomes of soft-palate surgery for OSA</td>
<td>Ed Weaver (Seattle, WA/US)</td>
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<tr>
<td>09:40</td>
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<td>Soft palate or lateral pharyngeal wall – What needs to be addressed in surgical decision making?</td>
<td>Bhik Kotecha (London/GB)</td>
</tr>
<tr>
<td>09:50</td>
<td></td>
<td>Reasons for failures in soft palate surgery</td>
<td>Song Tar Toh (Singapore/SG)</td>
</tr>
</tbody>
</table>
10:00 A new level specific classification of the lateral pharyngeal wall collapse in OSA patients
Ahmed Elsobky (Mansoura/EG)

10:10 Round-table: Discussion and ask the experts

09:00–10:30 Short talks
Lecture hall C
Chairs Diagnostic in sleep apnea and drug-induced sleep endoscopy (DISE) I
Marcel Copper (Nieuwegein/NL), Eric Treutlein (Erlangen/DE)

09:00 Surgical indications for OSA – a respiratory pattern perspective
Shintaro Chiba (Kawasaki-city/JP)

09:10 Polysomnography and sleep position – A Heisenberg phenomenon?
A large scale series
Patty Vonk, Madeline Ravesloot, Nico de Vries (Amsterdam/NL)

09:20 Unsupervised polysomnography in children – a technical and economic study
Silke Anna T. Weber, José Vicente Tagliarini, Iury Lima (Botucatu/BR)

09:30 ST2 – a valid biomarker for diagnosis and cardiovascular risk assessment in Obstructive Sleep Apnea?
Eric Treutlein, Judith Bauer, Olaf Wendler Maximilian Traxdorf (Erlangen/DE)

09:40 Upper airway simulation for analysis of OSAS based on FEA
Lars Bonitz, Stefan Hassfeld (Dortmund/DE), Uwe Janoske (Wuppertal/DE)
Christoph Mueller, Alexander Pugachev (Grafing/DE)

09:50 Can drug-induced sleep endoscopy in children predict OSA persistence after adenotonsillectomy
Silke Anna T. Weber, Antonio Carlos Marão, Jefferson Barros Sergio Henrique Kiemle Trindade (Botucatu/BR)

10:00 DISE with online polygraphic cardiorespiratory monitoring in OSAS patients – 100 patients prospective analysis
Riccardo Gobbi, Giovanni Cammaroto, Andrea De Vito Giuseppe Meccariello, Filippo Montecvecchi, Claudio Vicini (Forlì/IT)
10:10 Reliability of drug-induced sleep endoscopy – interobserver agreement according to level of training
Sophie Bartier, Frédéric Chabolle, Marc Blumen (Suresnes/FR)

10:20 DISE during CPAP therapy in patients with CPAP failure
Marcel Copper (Nieuwegein/NL)

10:30–11:00 Coffee break in the industrial exhibition

11:00–12:30 Symposium 9
Lecture hall A

Hypoglossal nerve stimulation/Upper airway stimulation in OSA
Chairs Karl Doghramji (Philadelphia, PA/US), Armin Steffen (Lübeck/DE)

11:00 Patient selection and predictors of success 2018
Benedikt Hofauer (Munich/DE)

11:10 The role of DISE in hypoglossal stimulation
Boyd Gillespie (Memphis, TN/US)

11:20 Evolving methods for hypoglossal neurostimulation
Eric Kezirian (Los Angeles, CA/US)

11:30 Surgical anatomy of the hypoglossal nerve
Maurits Boon (Philadelphia, PA/US)

11:40 Different systems – different techniques: What is the future of upper airway stimulation?
Armin Steffen (Lübeck/DE)

11:50 Long-term outcome of upper airway stimulation and effects on cardiovascular risks
Ryan Soose (Pittsburgh, PA/US)

12:00 The value of hypoglossal nerve stimulation in the portfolio of surgical OSA treatments – the pulmonologists perspective
Joachim Ficker (Nuremberg/DE)

12:10 Round table: Is upper airway stimulation the future? The right technique to open the obstructive airway?
### 11:00–12:30 | Symposium 10
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Lecture hall B
Chairs

**Oral appliance and maxillomandibular advancement (MMA)**

Olivier M. Vanderveken (Antwerpen, Edegem/BE)
Stanley Yung-Chuan Liu (Stanford, CA/US)

**Patient selection and predictors for success in MAD therapy**

Olivier M. Vanderveken (Antwerpen, Edegem/BE)

**Follow-up reports on intraoral negative air pressure device treated patients underwent Obstructive Sleep Apnea uvulopalatopharyngoplasty**

Tien Jen Liu (Taipei/TW), Wen-Yeh Hsieh (Hsinchu branch/TW)
Bo-Nien Chen (Taipei/TW), Wen-Ko Su (Hsinchu branch/TW)

**Different types of MAD and their respective outcomes – Are there any differences?**

Fahri Yildiz (Cologne/DE)

**MMA – Where do we stand and when should it be done?**

Nestor Montesdeoca (Madrid/ES)

**MMA – surgical technique by video demonstration**

Nico de Vries (Amsterdam/NL)

**Round table: What shows the better clinical outcomes – MAD or MMA?**

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### 11:00–12:30 | Short talks
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Lecture hall C
Chairs

**Drug-induced sleep endoscopy (DISE) II and nose**

Ying Shuo Hsu (Taipei/TW), Robert Pavelka (Baden/AT)

**Optimization of drug-induced sleep endoscopy (DISE) – persistent circumferential velopharyngeal collapse when head rotation in supine position with oral appliance correlate to more severe Obstructive Sleep Apnea**

Ying Shuo Hsu (Taipei/TW)

**Drug-induced sedation endoscopy without the presence of an anesthesiologist**

Eva Kirkegaard Kiær, Anders Bilde, Niclas Rubek
Henrik Bredahl Sørensen, Christine Møller, Anne Marie Hildebrandt
Anne Hammering, Philip Tønnesen, Christian von Buchwald
Poul Jørgen Jennum (København/DK)
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<th>Time</th>
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<th>Authors</th>
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<tr>
<td>11:20</td>
<td>Drug-induced sleep endoscopy findings in children with obesity and</td>
<td>Derek Lam, Henry Milczuk, Carol Macarthur, Ericka King, Lourdes Quintanilla-Dieck (Portland, OR/US)</td>
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<td>Down syndrome</td>
<td>Edward Weaver (Seattle, WA/US)</td>
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<tr>
<td>11:30</td>
<td>Drug-induced sleep endoscopy – new insights of the effect and value of</td>
<td>Patty Vonk, Megan van de Beek, Madeline Ravesloot, Nico de Vries (Amsterdam/NL)</td>
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<td>lateral head rotation as a screening tool in patients with positional</td>
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<td>dependent OSA</td>
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<td>11:40</td>
<td>Including oxygen saturation both in conducting and in classification of drug-induced sleep endoscopy</td>
<td>Robert Pavelka (Baden/AT)</td>
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<tr>
<td>11:50</td>
<td>Elimination of complete concentric collapse at the level of the palate through maxillomandibular advancement surgery for Obstructive Sleep Apnea</td>
<td>Chloé Kastoer (Antwerp/BE), Sara Op de Beeck, Marc Dom, Thérèse Neirinckx, Johan Verbraecken, Marc Braem, Paul Van de Heyning (Antwerp/BE), Nasser Nadjmi, Olivier M. Vanderveken (Edegem/BE)</td>
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<td>12:00</td>
<td>Remotely controlled mandibular positioning during drug-induced sleep endoscopy preceding mandibular advancement device therapy: protocol and feasibility</td>
<td>Chloé Kastoer, Marijke Dieltjens, Sara Op de Beeck, Paul Van de Heyning, Marc Braem, Olivier M. Vanderveken (Edegem/BE)</td>
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<tr>
<td>12:10</td>
<td>Sound frequency spectra of snore in relation to the site of obstruction among snoring patients in Malaysia</td>
<td>Nor Hafiza Qualickuz Zanan, Khairulamir Zainuddin, Mawaddah Azman, Sharifah Ezat Wan Putih, Abdullah Sani Mohamed, Marina Mat Baki (Kuala Lumpur/MY)</td>
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<tr>
<td>12:20</td>
<td>Urologic quality of life and urologic health in OSA patients</td>
<td>Martin Hopp, Daryoush Saadat (Los Angeles, CA/US)</td>
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<td>13:30–15:00</td>
<td><strong>Symposium 11</strong></td>
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| Lecture hall A | **Combining treatments with multi-level surgery – the recipe for success?**  
Nico de Vries (Amsterdam/NL), Karl Hörmann (Mannheim/DE) |
| 13:30        | Multi-level surgery                                                  |
|              | Peter van Maanen (Amsterdam/NL)                                     |
| 13:45        | Combination therapy – positional treatment, combined with or compared to other treatments |
|              | Linda Benoist (Amsterdam/NL)                                        |
| 14:00        | Systematic review – surgery in patients with positional OSA         |
|              | Patty Vonk (Amsterdam/NL)                                           |
| 14:15        | Surgery and mandibular advancement devices (MAD)                    |
|              | Stuart MacKay (Wollongong/AU)                                       |
| 14:30        | Round-table: Discussion and ask the experts                         |
| 13:30–15:00  | **Short talks**                                                      |
| Lecture hall B | **Soft palate I**                                                   |
| Chairs       | Yassin Bahgat (Alexandria/EG), Marina Carrasco-Llatas (Valencia/ES) |
| 13:30        | Five-year outcomes of palatopharyngeal surgery in patients with Obstructive Sleep Apnea Hypopnea Syndrome |
|              | Jingying Ye, Guoping Yin, Yuhuan Zhang (Beijing/CN)                  |
| 13:40        | The evaluation of results of expansion sphincter pharyngoplasty by acoustic pharyngometry |
|              | Ahmet Emre Süslü, Hayyam Masiyev, Serdar Özer, Metin Önerci (Ankara/TR) |
| 13:50        | Retrospective analysis of 10 years of pharyngoplasty techniques      |
|              | Marina Carrasco-Llatas, Paula Martínez-Ruíz de Apodaca Africa de-la-Rosa, Jose Dalmau-Galofre (Valencia/ES) |
| 14:00        | Polysomnogram outcomes in children undergoing adenotonsillectomy with and without concurrent pillarplasty: a case control study |
|              | Cecille Sulman, Ryan Little (Milwaukee, WI/US), John Faria (Rochester, NY/US) |
14:10 Uvulopalatoplasty surgery using radiofrequency induced thermotherapy (RFITT) – based on own experience

Agata Gerwel (Warsaw/PL), Wiesław Konopka (Warsaw, Łódź/PL)
Michał Michalik, Marcin Broda (Warsaw/PL)

14:20 Lateral expansion pharyngoplasty – a combined technique for OSAS treatment

Heloisa dos Santos Sobreira Nunes
Jose Antonio Pinto (São Paulo, São Paulo/BR)

14:30 Suspension suture palatopharyngoplasty SSPP – a new surgical technique in snoring and OSA management

Yassin Bahgat (Alexandria/EG)

14:40 Endoscopic expansion pharyngoplasty

Luis Amando García, Gabriela Muñoz (Cangas del Narcea/ES)

14:50 Long-term outcome of modified cautery-assisted palatal stiffening operation as a treatment of Obstructive Sleep Apnea syndrome

Lit Yee Loo, Marina Mat Baki, Mawaddah Azman Zuraidah Che’ Man, Abdullah Sani Mohamed (Kuala Lumpur/MY)

13:30–15:00 Short talks

Lecture hall C
Chairs

Advantages of the multi-level bipolar radiofrequency (RF) for the treatment of moderate Obstructive Sleep Apnea (OSA) and snoring

Andrei Marinescu (Winnenden/DE)

Hypo pharyngeal collapse in OSA -hidden areas in OSA surgery – how to address it?

Anand Raju (Coimbatore, Tamilnadu/IN)

Single session multi-level soft tissue radiofrequency treatment as an option in snoring/Obstructive Sleep Apnea – a pilot study on safety, patient satisfaction and symptomatic improvement

Crystal Cheong, Vijayaraj Thirunavukarasu, Ranjit Magherra Sue Rene Soon (Singapore/SG)
14:00  Mechanical splinting of the nasal and velopharyngeal airway for patency of the upper airway in OSA
Klaus Düring (Frechen/DE)

14:10  Longterm compliance of supine avoidance using smartphone apps in patients with positional Obstructive Sleep Apnea
Dominik A. Haas, Joachim T. Maurer (Mannheim/DE), Boris A. Stuck Richard Birk (Marburg/DE), Ulrich J. Sommer (Mannheim/DE)

14:20  Treatment of sleep-disordered breathing with positional therapy: long-term results

14:30  Adult Obstructive Sleep Apnea syndrome and tonsil hypertrophy: Should soft palate surgery be associated with tonsillectomy?
Robin Baudouin, Marc Blumen, Cyril Chaufton Frédéric Chabolle (Suresnes, Paris-Saclay/FR)

14:40  Vertebropharyngeal prosthesis (VPP) for treatment of Obstructive Sleep Apnea
Arman Afrashi (Izmir/TR)

14:50  The impact of postoperative CPAP therapy on the efficacy of palatopharyngeal surgery in patients with OSAHS
Guoping Yin, Jingying Ye, Yuhuan Zhang, Jinkun Xu (Beijing/CN)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:30–16:45</td>
<td><strong>Symposium 12</strong></td>
<td>Pediatric sleep disordered breathings (SDB) – role of conservative and surgical therapies</td>
<td>Danielle Friberg (Uppsala/SE), Stacey L. Ishman (Cincinnati, OH/US)</td>
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<tr>
<td>15:30</td>
<td></td>
<td>Perioperative monitoring for children with OSA</td>
<td>Silke Anna T. Weber (Botucatu/BR)</td>
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<tr>
<td>15:40</td>
<td></td>
<td>Clinical symptoms in children with sleep disordered breathings (SDB): treating symptoms or improving measures?</td>
<td>Matthias Frerick (Munich/DE)</td>
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<td>15:50</td>
<td></td>
<td>Evaluation of adenoidal regrowth after adenotonsillectomy in pediatric Obstructive Sleep Apnea</td>
<td>Itsuo Nakajima, Shinichi Haruna (Tochigi-ken, Shimotsuga-gun/JP)</td>
</tr>
<tr>
<td>16:00</td>
<td></td>
<td>The role of adenotonsillectomy in treatment of pediatric SDB</td>
<td>Ron B. Mitchell (Dallas, TX/US)</td>
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<td>16:10</td>
<td></td>
<td>Diagnostic concepts in children with SDB</td>
<td>Victor Certal (Ovar/PT)</td>
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<td>16:20</td>
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<td>Round table: Translation of adult surgery in pediatric surgery: Is it possible?</td>
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<td>Time</td>
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<tr>
<td>15:30–16:45</td>
<td><strong>Short talks</strong></td>
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<td></td>
<td><strong>Soft palate II and pathophysiology</strong></td>
<td>David Smith (Cincinnati, OH/US), Bruno Duarte (Campinas/BR)</td>
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<tr>
<td>15:30</td>
<td>Effectiveness of barbed repositioning pharyngoplasty (BRP) in different surgical settings for OSA treatment</td>
<td>Giovanni Cammaroto, Giuseppe Mecciariello, Mohamed Saleh Rashwan, Riccardo Gobbi, Filippo Montevucchi, Andrea De Vito, Claudio Vicini (Forlì/IT)</td>
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<tr>
<td>15:40</td>
<td>Prospective multi-centre study on expansion esphincter pharyngoplasty standing alone as surgical treatment of Obstructive Sleep Apnea/Hypopnea Syndrome</td>
<td>Guillermo Plaza (Fuenlabrada/ES), Peter Baptista (Pamplona/ES), Carlos O’Connor (Marbella/ES), Gabriela Bosco, Nuria Pérez-Martín (Fuenlabrada/ES), Kenny P. Pang (Singapore/DE)</td>
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<tr>
<td>15:50</td>
<td>Sphincter expansion pharyngoplasty (ESP) in the treatment of patients with Obstructive Sleep Apnea/Hypopnea Syndrome (SAHS): our experience</td>
<td>Maria Gabriela Bosco Morales, Nuria Pérez-Martín, Guillermo Plaza Mayor (Fuenlabrada/ES)</td>
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<tr>
<td>16:00</td>
<td>Machine learning for the classification of snoring noise: the Munich Passau snore sound corpus</td>
<td>Christoph Janott (Berlin/DE), Maximilian Schmitt (Passau/DE), Yue Zhang (London/GB), Kun Qian (Munich/DE), Vedhas Pandit, Zixing Zhang (Passau/DE), Clemens Heiser (Munich/DE), Winfried Hohenhorst (Essen/DE), Michael Herzog (Cottbus/DE), Werner Hemmert (Berlin/DE), Björn Schuller (Passau/DE, London/GB)</td>
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<tr>
<td>16:10</td>
<td>Histological comparison between fibers of the palatopharyngeal and superior pharyngeal constrictor muscles in individuals with and without Obstructive Sleep Apnea</td>
<td>Bruno Duarte, Michel Burihan Cahali, Luiz Ubirajara Sennes, Gilberto Guanaes Simões Formigoni, Suely Kazue Nagahashi Marie (Campinas/BR)</td>
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</table>
| 16:20 | A murine model of Obstructive Sleep Apnea to study circadian dysregulation  
        David Smith, Douglas von Allmen, Lauren Francey  
        Robert Schmidt, Garrett Rogers, John Hogenesch (Cincinnati, OH/US) |
| 16:30 | Dinamometric measures of upper airway collapse  
        Luis Amando García, Gabriela Muñoz (Cangas del Narceas/ES) |
| 16:40 | Discussion |
| 16:45–17:00 | Farewell, next meeting  
Lecture hall A |  
Farewell  
Thomas Verse (Hamburg/DE), Clemens Heiser (Munich/DE)  
Outlook 2019  
Maria V. Suurna (New York, NY/US)  
Closing by the president of the International Surgical Sleep Society (ISSS)  
Stacey L. Ishman (Cincinnati, OH/US) |

**SAVE THE DATE**

The ISSS meeting 2019  
10–11 May 2019  
The Marriott Marquis Times Square, New York, USA
Please prepare your ePoster presentation in a time frame of 5 minutes (2 minutes presentation + 3 minutes discussion).

17:05–17:45 Combined treatments, CPAP, Nose
Terminal 1
Chairs Anneclaire Vroegop (Edegem/BE), Hyoseok Seo (Busan/KR)

17:05 Retrospective analysis of a 2-years multidisciplinary sleep centre experience
P01 Daniela Carioli, Mario Mantovani, Roberto Trojsi, Marco Mantero
Mirko Marra, Diego Rossi, Michele Romano, Eleonora Tobaldini
Nicola Montano, Lorenzo Pignataro (Milano/IT)

17:10 Oral appliance treatment in patients with persistent Obstructive Sleep Apnea after uvulopalatopharyngoplasty
P02 Anneclaire Vroegop, Marc Braem (Edegem/BE)
Evert Hamans (Antwerp/BE), An Boudewyns, Paul Van de Heyning
Olivier M. Vanderveken (Edegem/BE)

17:15 From upper airway reconstruction to upper airway stimulation
P03 Sung ok Catherine Hong (Incheon/KR)
Stanley Yung-Chuan Liu (Stanford, CA/US)

17:20 Overlooked causes of PAP non-compliance for the otolaryngologist
P04 Aliya Ferouz-Colborn (Murrieta/US)

17:25 Effect of doctor and device manager on adherence with positive airway pressure therapy in Obstructive Sleep Apnea
P05 Hyoseok Seo, Seon Lin Kim, Sung-Dong Kim, Kyu-Sup Cho (Busan/KR)

17:30 Efficacy of intravenous ibuprofen vs. dextroprofen for treatment of pain for acute postoperative pain relief after septorhinoplasty
P06 Ozgur Kemal, Ayse Bel Cecen, Mustafa Tastan (Atakum/TR)

17:35 Success of nasal surgery in patients with Obstructive Sleep Apnea: Is the presence of allergic rhinitis relevant?
P07 Sung-Dong Kim, Hyoseok Seo, Kyu-Sup Cho (Busan/KR)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:05</td>
<td>The use of overnight pulse oximetry and phoniatrics parameters in the screening protocol of Obstructive Sleep Apnea</td>
<td>Yassin Bahgat (Alexandria/EG)</td>
</tr>
<tr>
<td>17:10</td>
<td>Computational fluid dynamic study in Obstructive Sleep Apnea patient: preliminary study</td>
<td>Jin-Bu Ha (Daejoen City/KR), Huiseok Kim, Wanju Lim, Seunghun Jung (Gwangju/KR), Dong Chang Lee (Daejoen City/KR)</td>
</tr>
<tr>
<td>17:15</td>
<td>Incidental findings on upper airway computed tomography images in patients with sleep-disordered breathing</td>
<td>Nam Yoon Jung, Woo Yong Bae, Eun-Ju Kang (Busan/KR)</td>
</tr>
<tr>
<td>17:20</td>
<td>Association between STOP-BANG and mallampati core in commercial carriers referred for health license</td>
<td>Reihaneh Heidari, Farzaneh Chavoshi, Arezu Najafi, Ania Rahimi, Maryam Saraei (Tehran/IR)</td>
</tr>
<tr>
<td>17:25</td>
<td>A game changer in diagnosing Obstructive Sleep Apnea (OSA): the ApneaGraph®Spiro</td>
<td>Magne Tvinnereim (Bergen/NO)</td>
</tr>
<tr>
<td>17:30</td>
<td>The influence of media technology on sleep habits</td>
<td>Silke Anna T. Weber, Camila Correa, Letícia Dominguez Campos (Botucatu/BR)</td>
</tr>
<tr>
<td>17:35</td>
<td>Routine snoring frequency analysis in home polygraphy gives valuable hints about vibration localisations in real life influencing treatment decisions</td>
<td>Robert Pavelka (Baden/AT)</td>
</tr>
</tbody>
</table>
17:05–17:45  General OSA and drug-induced sleep endoscopy (DISE)
Terminal 3
Chairs
Gerlind Schneider (Jena/DE), Soo Kweon Koo (Busan/KR)

17:05  Comparison of jaw thrust maneuver effect between positional and non-positional Obstructive Sleep Apnea patient during DISE
Soo Kweon Koo, Young Joong Kim, Young Jun Kim, Ho Byung Lee (Busan/KR)

17:10  Characteristics of upper airway collapse assessed during drug-induced sleep endoscopy predicts response and deterioration under mandibular advancement device therapy
Olivier M. Vanderveken, Sara Op de Beeck, Marijke Dieltjens, Annelies Verbruggen, Anneclaire Vroegop (Edegem/BE), Evert Hamans (Antwerp/BE), Johan Verbraecken, Wilfried De Backer, Paul Van de Heyning, Marc Braem (Edegem/BE)

17:15  How to find out the best treatment of Obstructive Sleep Apnea?: evaluation of 100 Drug-induced sleep endoscopies (DISE)
Gerlind Schneider, Juliane Priese (Jena/DE)

17:20  Does drug-induced sleep endoscopy predict surgical success of limited palatal muscle resection in patients with Obstructive Sleep Apnea?
Kyu-Sup Cho, Jae-Wook Kim, Sung-Dong Kim (Busan/KR)

17:25  Relevance of surgery for second-line treatment of Obstructive Sleep Apnea in Germany
Marcel Braun (Maple Grove, MN/US)

17:30  Carotid arterial calcium scoring using upper airway computed tomography on the Obstructive Sleep Apnea patient – clinical usefulness as the predictor of cerebrocardiovascular disease
Eun-Ju Kang, Woo Yong Bae, Nam Yoon Jung, Jae-Hoon Lee (Busan/KR)

17:35  Sonographic evaluation of anatomical variations in patients with Obstructive Sleep Apnea
Janik Karl, Benedikt Hofauer, Clemens Heiser (Munich/DE)

17:40  Regarding precision medicine it needs a new index for identifying those patients with Obstructive Sleep Apnea Syndrome (OSAS) who are really in need for effective treatment with respect to OSAS-associated comorbidities
Wilfried Böhning (Bad Lippspringe/DE)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
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</thead>
<tbody>
<tr>
<td>17:05–17:45</td>
<td>Soft palate and tongue base</td>
<td>Chloé Kastoer (Edegem/BE), Minori Kondo (Kashiwa/JP)</td>
</tr>
<tr>
<td>17:05</td>
<td>A preliminary study on the treatment of OSA by pterygoid hamulus suspend palatopharyngoplasty</td>
<td>Xiangmin Zhang (Guangzhou/CN)</td>
</tr>
<tr>
<td>17:10</td>
<td>Predictive factors of pharyngeal surgery for Obstructive Sleep Apnea (OSA)</td>
<td>Minori Kondo (Kashiwa/JP), Shintaro Chiba (Kawasaki-city/JP)</td>
</tr>
<tr>
<td>17:15</td>
<td>Palate surgery from the patients’ perspective – comparision of barbed reposition pharyngoplasty and relocation pharyngoplasty techniques using a post-operative palate surgery specific questionnaire</td>
<td>Hung Tuan Lau, Rachel Leong, Terry Tan, Paul Mok (Singapore/SG)</td>
</tr>
<tr>
<td>17:20</td>
<td>Transoral endoscopic coblation tongue base resection not reduction: the robot simulator</td>
<td>Ahmed Bahgat (Alexandria/EG), Claudio Vicini (Forli/IT), Yassin Bahgat (Alexandria/EG)</td>
</tr>
<tr>
<td>17:25</td>
<td>Modified tongue radiofrequency ablation in the treatment of OSAHS</td>
<td>Xiangmin Zhang (Guangzhou/CN)</td>
</tr>
<tr>
<td>17:30</td>
<td>Hyoid expansion with titanium plate and screw with hyomandibular suspension – a study of human cadavers with computed tomographic comparative analysis</td>
<td>Shaun Loh, Song Tar Toh (Singapore/SG)</td>
</tr>
<tr>
<td>17:35</td>
<td>Evaluation of radiofrequency ablation therapy for patients with sleep disordered breathing</td>
<td>Chloé Kastoer (Edegem/BE), Valerio Fabiani (Rome/IT), Jolien Beyers Johan Verbraecken, Paul Van de Heyning (Edegem/BE), Mario Fabiani (Rome/IT), Olivier M. Vanderveken (Edegem/BE)</td>
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<tr>
<td>Time</td>
<td>Title</td>
<td>Presenters</td>
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<tr>
<td>17:05</td>
<td>Upper airway stimulation and pediatrics</td>
<td>Markus Wirth (Munich/DE), Colin Huntley (Philadelphia, PA/US)</td>
</tr>
<tr>
<td>17:05</td>
<td>Polysomnography outcomes following adenotonsillectomy in children with trisomy 21 – effects of weight and Obstructive Sleep Apnea severity</td>
<td>Cher (Xue) Zhao (Ann Arbor, MI/US); Israsena Woravipa (Ann Arbor, MI/US; Bangkok/TH); Fauziya Hassan, Jeffrey Stanley (Ann Arbor, MI/US)</td>
</tr>
<tr>
<td>17:10</td>
<td>Obstructive sleep apnea in a patient with Prader-Willi Syndrome: case report</td>
<td>Catarina Lombo, Jorge Rodrigues, Alexandra Gomes, Patricia Gomes, Pedro Salvador, Carlos Matos, Sérgio Caselhos, Rui Fonseca (Porto/PT)</td>
</tr>
<tr>
<td>17:15</td>
<td>Selective upper airway stimulation – a surgeon related outcome analysis</td>
<td>Rakan Saadoun, Dominik A. Haas, Joachim T. Maurer, Ulrich J. Sommer (Mannheim/DE)</td>
</tr>
<tr>
<td>17:20</td>
<td>Outcomes of upper airway stimulation at a high volume academic center</td>
<td>Colin Huntley, Karl Doghramji, Maurits Boon (Philadelphia, PA/US)</td>
</tr>
<tr>
<td>17:30</td>
<td>Emergence of cheyne-stokes breathing after hypoglossal nerve stimulator placement in two patients</td>
<td>Kathleen Sarber, Reena Dhanda-Patil, Stacey L. Ishman (Cincinnati, OH/US)</td>
</tr>
<tr>
<td>17:35</td>
<td>Oops, it’s the wrong nerve! Encountering the wrong nerve in hypoglossal nerve stimulation</td>
<td>Peter Baptista, Octavio Garaycochea, Juan Alcalde, Carlos Prieto (Pamplona/ES)</td>
</tr>
<tr>
<td>17:40</td>
<td>Combining MMA and upper airway stimulation – When and why?</td>
<td>Ying-Chieh Hsu (Taipei/TW), Chris Gouveia, Audrey Yoon, Stanley Yung-Chuan Liu (Stanford, CA/US)</td>
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LUNCH SYMPOSIA | FRIDAY, 6 APRIL

12:40–13:25  Lunch symposium
Lecture hall B  Olympus Europa SE & Co. KG
Drug-induced sleep endoscopy – its role in the evaluation of upper airway obstruction and patient selection for radiofrequency surgery

12:40  Welcome
Bhik Kotecha (London/GB), Olivier M. Vanderveken (Antwerpen, Edegem/BE)

12:45  Drug-induced sleep endoscopy
Bhik Kotecha (London/GB)

13:00  RFITT treatment options in patient with sleep related breathing disorders
Olivier M. Vanderveken (Antwerpen, Edegem/BE)

13:15  Discussion

12:40–13:25  Lunch symposium
Lecture hall C  Sutter Medizintechnik GmbH
Radiofrequency treatment of snoring and mild sleep apnea – is it still relevant?

Speakers
Kurt Tschopp (Liestal/CH)
Wish Banhiran (Bangkok/TH)

Visit our Lunch Symposium

ACCURATE DIAGNOSIS, SAFE AND EFFICIENT TREATMENT
Sleep Endoscopy and Treatment of Snoring and Mild to Moderate OSAS
Many sleep-related breathing disorders (SRBD), especially obstructive sleep apnea, originate from upper airway abnormalities. The connection to cardio- and cerebrovascular comorbidities is significant and the impact on the general health of patients is noteworthy. In recent years, important advances have been made in the research, diagnosis, and treatment of SRBD due to a multidisciplinary approach.

This volume incorporates contributions in which the efforts and expertise of more than thirty outstanding experts are shared. It provides a concise, practical, and comprehensive review of sleep medicine and will enable researchers and physicians to stay updated on the latest developments.
Registration
Registration for the conference is required. Please register online at www.isss-munich.com. Registration can also be made via fax or mail.

<table>
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<th>Registration fees</th>
<th>Late registration until 25 March</th>
<th>On-site registration from 26 March</th>
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<tr>
<td>Member ISSS/DGSM/DG HNO</td>
<td>450 EUR</td>
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<tr>
<td>Non-member</td>
<td>550 EUR</td>
<td>600 EUR</td>
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<td>Residents*</td>
<td>325 EUR</td>
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<td>Medical students*/</td>
<td>225 EUR</td>
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<td>Allied health professionals*</td>
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Pre courses 5 April
09:00–16:00
Training in upper airway stimulation with 3D live-implant 100 EUR

09:00–13:00
Training and cases in decision making: Which treatment is suitable for which patient 50 EUR

09:30–15:30
DISE – Training course 100 EUR

Social program
Historical city tour (4 April) 15 EUR
Guided beer tour (5 April) 35 EUR
Social evening in the “Hofbräukeller München“ (6 April) 50 EUR

* Please provide proof of status via fax +49 3641 31 16-244 or e-mail registration@conventus.de and quote ISSS 2018

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Payment and confirmation of payment
An invoice or confirmation of registration will be sent to you via postal or electronic mail within 14 days. This invoice is a valid invoice which may be submitted to the local tax and revenue office. All fees are due upon receipt of invoice/registration confirmation. Payment transfers must include participant’s name and invoice number. Payment is also accepted by credit card (Master-/Eurocard, American Express, VISA). In the case that you have transferred the registration fee shortly before the start of the congress, (up to 10 days prior to congress opening), we would like to ask you to please present your transfer remittance slip onsite.
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The self check-in is located next to the check-in. In case of full and timely payment by 26 March, you will receive your personal QR code via e-mail for a fast and easy self check-in. Please bring your QR code either printed or on your smartphone to the conference. Your name badge also provides access to the scientific sessions and to the industrial exhibition. Therefore, please wear your name badge during the whole conference.

Accommodation
We have reserved a contingent of rooms at special rates in different categories. Please quote the special conference booking code “ISSS 2018” when booking to benefit from the special conference rates. Conventus acts as an intermediary for hotel reservations and therefore assumes no liability for reservations. Changes and cancellations have to be addressed to the according hotels directly. The cancellation terms of the individual hotels apply. Further information on accommodation is provided at www.isss-munich.com/travel-hotels/hotels

Certification
An application was submitted to the European Accreditation Council for Continuing Medical Education (EACCME) for European CME credits (ECMEC).

The conference is accredited by the “Bavarian State Chamber of Physicians” as follows:

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<th>Time</th>
<th>Category</th>
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<tbody>
<tr>
<td>5 April</td>
<td></td>
<td>Category B</td>
<td>3 Points</td>
</tr>
<tr>
<td>6 April, 09:00–13:25</td>
<td>Category B</td>
<td>3 Points</td>
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<tr>
<td>6 April, 13:30–18:10</td>
<td>Category B</td>
<td>3 Points</td>
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<tr>
<td>7 April</td>
<td></td>
<td>Category B</td>
<td>3 Points</td>
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Proof of attendance
For certification you must provide proof of attendance. Therefore please scan your QR code from your name badge at the certification counter, on-site every day at the conference. **On the 6 April you have to scan twice, in the morning and in the afternoon.**

For the CME points of the **German State Chambers of Physicians** please enter your EFN number within the registration or send it to us via e-mail at registration@conventus.de. The points will be transferred to the Bavarian State Chamber of Physicians electronically.

Certificate of attendance and evaluation
You will receive a link for the online evaluation one week after the conference. As soon as your evaluation is finalized you will be able to download your certificates.
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www.heinemann-ent.de
General Information

Cloakroom
The coat and luggage room at the meeting (in Pavillon) is free and not guarded. Please be aware that we assume no liability for any loss or stolen items.

Opening hours
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<tr>
<td>Industrial exhibition</td>
<td>10:15–18:00</td>
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<tr>
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Internet corner and WIFI access
WIFI is available for free throughout the whole conference area. You will receive the login details on-site.

Industrial exhibition
A specialized industrial exhibition accompanies the conference. The exhibitors are looking forward to welcoming you and to present their comprehensive range of innovative products.
For a detailed layout of the exhibition plan see page 51. Please note that sponsors and exhibitors take essential credits for making this conference possible.

Publication of abstracts
All abstracts will be available online at the conference website www.isss-munich.com.

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Become an ISSS member or renew your membership and profit from a reduced registration fee at ISSS meetings. More information at the check-in.

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We offer a conference app for iPhone, iPad, Android smart phones and tablets.

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- further information about the conference
- evaluation of speaker and the entire congress
- a map of the venue
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For current detailed information regarding the scientific program please have a look at our session planner at programm.conventus.de/isss2018. Compose your individual program and review it at any time on your way.

**Catering**
In the coffee breaks we offer coffee, tea, beverages and sweets free of charge in the industrial exhibition. During lunch symposia on Friday lunch bags will be provided by the hosting companies.

**Service for impaired people**
All rooms are accessible by wheelchair.

**Travel planning**

**By plane**

We offer special prices and conditions to participants, visitors, exhibitors and invited guests. To make a reservation, please use www.lh.com/event-flight-booking and enter the access code DEZJWRD in the “Access to Your Special Lufthansa Offer” area. This will open an online booking platform that will automatically calculate the discount offered or provide you with an even better offer if another promotional fare is available.

*From airport to the conference venue:*
Munich Airport is about 30 kilometers outside of the city. From the airport, use the tram S8 to the stop “Munich Ostbahnhof”. There you change to the subway line U5 directing to “Laimer Platz” and drive one stop to “Max-Weber-Platz”. Alternatively, you can go by taxi: Taxis are leaving directly in front of the terminal. Your journey by taxi will take about 45 minutes and cost approx. 70 to 80 EUR. Also “Uber” is available, but keep in mind, prices can be high due to a small amount of cars, which are available.

*From airport to the conference hotels:*
Munich Airport is about 30 kilometers outside of the city. From the airport, use the tram S8 to the stop “Rosenheimer Platz”. If you get out of the train, use the right elevator to “Gasteig/Deutsches Museum”. Alternatively, you can go by taxi: Taxis are leaving directly in front of the terminal. Your journey by taxi will take about 45 minutes and cost approx. 70 to 80 EUR. Also “Uber” is available, but keep in mind, prices can be high due to a small amount of cars, which are available.
Travel by train – Conventus event ticket

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Book your ticket online now and to get the guaranteed lowest price. More information here: www.isss-munich.com/travel-hotels/travel

Public transportation from the main station to the venue

From City central station please use metro line “U4-Arabellapark” or „U5-Neuperlach“. Your journey from the central station to the venue will take approximately 6 minutes. Please exit at “Max-Weber-Platz“ and follow the Einsteinstrasse to the lecture building with the red roof.

By car

Please note: there are hardly any parking spaces available. We recommend traveling by public transport, the use of Park & Ride (for example Olympiazentrum, Freimann) or please ask for a parking garage in your hotel.

Puplic transport (Stop Max-Weber-Platz)
Subway U4, U5
Bus 91, 191, 192
tram 15/16/19/25

Parking
- Parking garage Hofbräukeller (5 min by feet)
  Innere Wiener Str. 19, Day-ticket approx. 17.50 EUR, open 24 hours
- Parking garage Gasteig (15 min by feet)
  Rosenheimer Str. 5, Day-ticket approx. 22 EUR, open from 6:30–24:00
- Parking garage City Hilton (15 min by feet)
  Rosenheimer Str. 15, Day-ticket approx. 22 EUR, open 24 hours
Submission of a presentation/Technical information
The presentation should be prepared as PDF, MS Office PowerPoint for Windows or key for Macintosh DVD in format 4:3.

A presentation notebook with a PDF reader and MS Office PowerPoint 2016 will be provided. The use of personal notebooks is possible upon agreement. However, it may interrupt the flow of the program in the lecture hall. Please provide an adapter for VGA if necessary. To guarantee a smooth running program please upload your presentation in due time – at least 2 hours before your presentation is scheduled to start. Should you wish to use non-digital equipment, please contact us at isss-munich@conventus.de. Technical support will be provided in each lecture hall.

Presentation upload
The media check-in for uploading your presentation is located left to the main entrance in the “Pavillon”.
For submission, please use a USB flash drive, CD or DVD disc that is not protected by any software. Professional staff and equipment will be available for you to arrange and preview your presentation.

Time allocation
Please prepare your presentation for the allotted amount of time. Chairs and moderators may interrupt should you overrun your time limit. Short talk presentation should prepare a 10 minutes talk (including 3 minutes for discussion). ePoster must be uploaded before the conference starts.

ePoster session
Each author is asked to upload his/her ePoster presentation online to our abstract system as electronic version (ePoster) before the conference starts. On-site all ePosters will be accessible on screens throughout the entire conference. Presentations have to be limited to 5 minutes including 3 minutes for discussion.

Please comply with the following technical requirements:
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Springer-Verlag GmbH (Heidelberg/DE) „HNO NACHRICHTEN“
„Sleep and Breathing“

S. Karger AG (Basel/DE) „Journal for Oto-Rhino-Laryngology, Head and Neck Surgery“
Wednesday, 4 April

**Historical city tour**
A classical sightseeing tour through the city of Munich with a tour guide. Discover beautiful places and the lovely, historical city during your stay. Marienplatz, Frauenkirche, Residenz or Viktualienmarkt – you will see all the typical attractions of the city and even more. In addition to interesting facts, a main focus is on many amusing and surprising anecdotes that make the Bavarian state capital so special.

**Time** 10:00–12:00  
**Meeting point** Fischbrunnen (fountain) at Marienplatz  
**Price** 15 EUR

Thursday, 5 April

**Guided beer tour**
“Drink this to repentance” the Pope once said about the Bavarian Starkbier. So let’s have a beer tasting with 3 different beers and Brezn. Where else to go if not Munich? Here they got beer museums, beer palaces and even beer fountains. Your guide will provide you with history and social information worth knowing and entertaining the city tour. Even local Munich citizens may see many familiar corners and places differently afterwards.

**Time** 17:00–19:00  
**Meeting point** Fischbrunnen (fountain) at Marienplatz  
**Price** 35 EUR

Friday, 6 April

**Social evening in the “Hofbräukeller München”**
Enjoy a social evening with colleagues and friends in the „Hofbräu- ller München“ at the Isarhochufer between the Maximilianeum and German museums. The venue used to be a deposit for several breweries in the 18th century. Now it attracts with its bavarian and international specialities. Allow yourself a good German beer and come together for a fantastic evening with interesting conversations by delicious bavarian food. Meet the experts personally and talk to them directly. We are looking forward to welcoming you!

**Time** 19:00–23:30  
**Venue** Hofbräukeller  
**Innere Wiener Straße 17, 81667 Munich**  
**Distance to venue** 500m  
**Price** 50 EUR  
**Dress code** dirndl dress or lederhose (not obligatory)
Sleep and Breathing
International Journal of the Science and Practice of Sleep Medicine
Editors-in-Chief: F.R. Almeida; A. Eliasson; T. Penzel

- Reflects the state of the art in the international science and practice of sleep medicine
- Official Journal of the Australasian Academy of Dental Sleep Medicine (AustADSM), the European Academy of Dental Sleep Medicine (EADSM), the Japanese Academy of Dental Sleep Medicine (JADSM), and the Korean Academy of Dental Sleep Medicine (KADSM)
- Average time from submission to 1st decision (2017): 46 days
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Sleep and Breathing reflects the international state of the science and practice of sleep medicine. The journal is founded on the recognition that management of sleep disorders requires a multi-disciplinary approach and diverse perspectives. Sleep and Breathing presents timely and original peer-reviewed studies on the management of the upper airway during sleep.

The journal presents cutting edge information on common sleep disorders and disruptions, including insomnia and shift work. Coverage includes patient studies, and studies that emphasize the principles of physiology and pathophysiology or illustrate novel approaches to diagnosis and treatment. In addition, the journal features articles describing patient-oriented and cost-benefit health outcomes research. It is dedicated to making the most important developments in sleep disordered breathing easily accessible to all who treat sleep apnea, presenting well-chosen, well-written, and highly organized information that is useful in patient care.

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Bavarian Restaurants

Wirtshaus In Der Au
Lilienstrasse 51  \ 81669 Munich  
Distance to the venue: 1.3 km (17 minutes by feet)  
Phone: +49 89 44 81 400  |  www.wirtshausinderau.de  
In this beautiful city, you will find one of the oldest Bavarian alehouses in Munich – definitely, worth a visit: In 1901, the renaissance building housed its first pub. The popular local comedian and actor, Karl Valentin, who was born in the area – the “Au”- and who was a regular at the “Wagner Bräus” at that time, was one of the first to drink the “Auer Kraft-beer” and seemed to like it quite a lot. It was not until 1993, however, that this natural, honest, Bavarian charm once again found its way into the beautiful building, when the “Wirtshaus in der Au” opened its doors for friends, foreigners, and neighbours, and ever since then, whether young or old, everyone is welcome! With its Paulaner beer, a happy, friendly, and witty team, and an authentic Bavarian cuisine, where the chefs still cook with all their sweat and tears. The “Wirtshaus in der Au” soon became one of the most popular alehouses of the area – with its beer garden, bar, Jazz-Bavarian breakfast and Munich’s biggest potato dumpling.

Augustiner Keller
Arnulfstrasse 52  \ 80335 Munich (near main station)  
Distance to the venue: 3.9 km  
Phone: +49 89 59 43 93  |  www.augustinerkeller.de  
At the Augustiner Keller, you can enjoy a traditional cosy atmosphere combined with food of the highest quality all year round. From the extremely cosy Bierstüberl to the large Festsaal hall, as well as the Lagerkeller with its unique vaults located eight meters underground, this historic building has various spaces and rooms to suit a wide range of preferences and occasions. We specialise in traditional Bavarian cuisine, which we complement with international specialities, light snacks and vegetarian dishes.

Schneider Bräuhaus
Tal 7  \ 80331 Munich  
Distance to the venue: 1.9 km (24 minutes by feet)  
Phone +49 89 29 01 38-0  |  www.schneider-brauhaus.de  
The Bräuhaus is a very traditional and rustic tavern. It has a lot of traditional Bavarian food as the “white sausages”, “lungs” and also “sweetbread” and “calf brain”. But also normal traditional foods can be found on their menu.

More restaurants recommendations can be found on our message board on-site.
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1. Venue I Klinikum rechts der Isar
2. Social evening I Hofbräukeller
3. Marienplatz I City Centre
4. Motel One Deutsches Museum
5. Hilton Munich City
6. Motel One Deutsches Museum
7. Holiday Inn Munich City Centre

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