# Programme

## Thursday Aug 24

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Registration opens</td>
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<tr>
<td>12.00-13.00</td>
<td>Lunch (in the exhibition area)</td>
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<tr>
<td>13.00</td>
<td>Welcome to NSDS 2017. Paul Gerdhem, Stockholm, René Castelein, Utrecht</td>
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<tr>
<td>13.10-14.40</td>
<td>Invited lectures, moderators Paul Gerdhem/René Castelein</td>
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<tr>
<td>13.10-13.40</td>
<td>Use of the fulcrum bending technique to understand the behaviour of the spine in 3D, implications for instrumentation strategy and levels. Kenneth Cheung, Hong Kong</td>
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<td>13.40-14.10</td>
<td>Mechanical load and morphological changes in the development of scoliosis. René Castelein, Utrecht, the Netherlands</td>
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<td>14.40-15.00</td>
<td>Gold sponsor session; moderator René Castelein</td>
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<tr>
<td>14.40-15.00</td>
<td>Gold sponsor session; Innosurge: Indications and preliminary results of using a new expandable cage system. Martin Gehrchen</td>
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<tr>
<td>15.00-15.30</td>
<td>Coffe break (in the exhibition area)</td>
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<tr>
<td>15.30-17.00</td>
<td>Free papers, moderators Ralph Hasserius/Anna Grauers</td>
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</table>
Abstract 1  A prospective comparative study of juvenile versus adolescent idiopathic scoliosis undergoing pedicle screw instrumentation with direct vertebral column derotation. Oksanen H, Lastikka M, Helenius L, Pajulo O, Helenius I.

Abstract 2  Feasibility of preplanned extreme pedicle screws to improve vertebral derotation. Suurd D, Swaan A, Hekman E, Kruyt M.


Abstract 4  Custom-designed and manufactured rods for AIS surgical correction: applying the principles of the new AIS sagittal classification. Abelin-Genevois K


Abstract 6  A rod construct with differentiated rigidity improves the restoration of thoracic kyphosis in surgical treatment of adolescent idiopathic scoliosis. Ohrt-Nissen S, Dragsted C, Dahl B, Ferguson JA, Gehrchen M

Abstract 7  Implant density unrelated to patient reported outcome in a nationwide survey of 328 Patients with idiopathic scoliosis. Charalampidis A, Möller A, Wretling ML, Brismar TB, Gerdhem P

Abstract 8  Bracing of patients with juvenile idiopathic scoliosis does not influence spinal growth compared to a matched patient cohort without scoliosis. Wijdicks SPJ, Heemskerk JL, Altena MC, Kruyt MC, Castelein RM, Kempen DHR

Abstract 9  Brace treatment in children with cerebral palsy. Pettersson K, Rodby-Bousquet Elisabet

Abstract 10  Is postural control changed in adolescents with idiopathic scoliosis? -a systematic review and meta-analysis. Dufvenberg M, Öberg B, Abbott A
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Social event (Boat trip - boat will leave 18:00 sharp)</td>
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<tr>
<td>19:00</td>
<td>Dinner (at the venue)</td>
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**Friday Aug 25**

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08.30-10.00</td>
<td><strong>Invited lectures; moderators Paul Gerdhem/Hans Tropp</strong></td>
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<tr>
<td>08.30-09.00</td>
<td>Growth lengthening devices for spinal deformity - indications and outcome. Kenneth Cheung, Hong Kong</td>
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<tr>
<td>09.00-09.30</td>
<td>Cerebral palsy and deformity in the lower extremities. Prevention, treatment and impact on the spine. Gunnar Hägglund, Lund, Sweden</td>
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<tr>
<td>09.30-10.00</td>
<td>Treatment of scoliosis in patients with cerebral palsy. Athanasios Tsirikos, Edinburgh, Great Britain</td>
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<td>10.00-10.30</td>
<td>Coffe break (in the exhibition area)</td>
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<tr>
<td>10.30-11.40</td>
<td><strong>Free papers, moderators Ane Simony/Hans Möller</strong></td>
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**Abstract 11**
Rapidly increasing incidence in scoliosis surgery over 14 years in a nationwide sample. von Heideken J, Iversen M, Gerdhem P

**Abstract 12**
Hospital stay was reduced with 2 days after introduction of a standardized pre- and post-operative management protocol in patients with adolescent idiopathic scoliosis. Fure M, Krosby KE, Kibsgård TJ

**Abstract 13**
Pre- and postoperative physiotherapy interventions following scoliosis surgery in patients with Adolescent Idiopathic Scoliosis (AIS) - A Clinical Practice Guideline. Krosby K, Dagsgaard AH, Kivle K

**Abstract 14**
Abstract 15  
Self-perceived trunk appearance and quality of life in individuals with and without scoliosis. Savvides P, Diarbakerli E, Grauers A, Danielsson A, Gerdhem P

Abstract 16  
Scoliosis within the 22q11.2 deletion syndrome. Homans JF, Schlösser TPC, Kruyt MC, Castelein RM

Abstract 17  
Intra-wound vancomycin powder can reduce surgical site infections in spinal surgery compared to controls. Wijdicks SPJ, Lemans JVC, Öner FC, Ekkelenkamp MB, Vogely HC, Kruyt MC

Abstract 18  
Patients with idiopathic scoliosis run an increased risk of schizophrenia. Malmqvist M, Tropp H, Lyth J, Wiréhn A-B, Castelein R

11.40-12.00 Gold sponsor session; moderator Hans Tropp

11.40-12.00 Gold sponsor session; Philips. First clinical experiences with new augmented reality surgical navigation technology in scoliotic patients. Adrian Elmi-Terander/ Paul Gerdhem

12.00-13.00 Lunch (in the exhibition area)

13.00-14.00 Invited lectures; moderators Hans Möller/Håkan Jonsson


13.30-14.00 Can systematic pre, peri and post-operative care reduce the hospital stay? Tomas Kibsgård/ Marit Fure, Oslo, Norway

14.00-15.00 Free papers, moderators Barend van Royen/Ilkka Helenius

Abstract 19  
Three-dimensional pelvic incidence is much higher in (thoraco)lumbar scoliosis than in thoracic scoliosis and controls. Brink RC, Vavruh L, Schlösser TPC, Abul-Kasim K, Ohlin A, Tropp H, Castelein RM, Vrtovec T
Abstract 20 Neural axis abnormalities in patients with adolescent idiopathic scoliosis - the role of MRI. Fruergaard SS, Ohrt-Nissen S, Dahl B, Gehrchen M


Abstract 22 Relevance of iliac crest bone graft donor site pain after instrumented (thoraco)lumbar spinal fusion: can patients identify the harvesting site? Lehr AM, Oner FC, Castelein RM, Kruyt MC


15.00-15.30 Coffe break (in the exhibition area)

15.30-16.00 History of spine deformities. Acke Ohlin, Malmö, Sweden

16.00-16.30 Free papers, moderators Ilkka Helenius/Hans Tropp


Abstract 26 14-fold reduction of radiation dose with new micro-dose protocol; first phantom measurements of organ dose and effective dose with the EOS® micro-dose protocol in full-spine examinations. Pedersen PH, Greval A, Ostgaard SE, Tvedebrink T, Eiskjær SP
Abstract 27  
A reliability and validity study for different coronal angles using ultrasound imaging in adolescent idiopathic scoliosis. Brink RC, Wijdicks SPJ, Tromp IN, Schlösser TPC, Kruyt MC, Beek EFJ, Castelein RM

16.30-17.00  The Alf Nachemson memorial lecture. Rune Hedlund, Gothenburg, Sweden

19:00  Dinner (at the venue)

Saturday Aug 26

Time
08.30-09.15  General assembly of the Nordic Spinal Deformity Society
09.15-09.30  Presentation of NSDS 2018

09.30-11.00 Invited lectures; moderators Hans Tropp/Allan Abbott

09.30-10.00  Conservative treatment of scoliosis. Fabio Zaina, Milan, Italy

10.00-10.30  Coffe break (in the exhibition area)

10.30-11.00  New paradigm in the management of early onset scoliosis: Pitfalls and concept. Cody Bünger, Aarhus, Denmark

11.00-11.50 Free papers, moderators Thomas Kibsgård/Martin Gehrchen

Abstract 28  
What is the actual 3D representation of the rib vertebra angle difference (Mehta’s angle)? Brink RC, Schlösser TPC, van Stralen M, Vincken KL, Kruyt MC, Chu WCW, Cheng JCY, Castelein RM
Abstract 29  
A single magnetic driver (MCGR) and a contralateral passive sliding rod construct with apical control can provide 3D correction and maintain spinal growth in EOS. Wijdicks SPJ, Skov ST, Bünger C, Castelein RM, Li H, Kruyt MC

Abstract 30  
Magnetic controlled growing rods - our results. Ivars K, Ellinger F, Ahlinder P, Tropp H

Abstract 31  
Reliability and construct validity of the adapted Norwegian version of the Early Onset Scoliosis-24-item Questionnaire (EOSQ-24). Molland RS, Diep LM, Brox JI, Stuge B, Holm I, Kibsgård TJ.

Abstract 32  
High patient-parent satisfaction with magnetically controlled growing rod treatment in EOS. Toftgaard Skov S, Bünger C

11.50-12.00 Sponsor acknowledgements

12.00-13.00 **Invited lecture; moderator Allan Abbot/Ane Simony**

12.00-13.00 Braces and physiotherapy in scoliosis treatment. Fabio Zaina, Milan, Italy

13.00 Lunch (in the dining hall) and departure