# Wednesday, 16 September

## Concurrent Session 1

**Craniosynostosis 6**  
Chairs: Jesse A. Taylor (USA) & Marie-Lise Van Veelen (Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation Title</th>
<th>Presenter &amp; Affiliation</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>8:00-8:05</td>
<td>A Treatment Protocol for Atypical Presenting Sagittal Craniosynostosis</td>
<td>Edward J. Ruane (University of Pittsburgh Medical Center, USA)</td>
<td>Ruane EJ, Camison L, Fenton R, Pollack IF, Tamber MS, Davit AJ, Grunwaldt LJ, Losee JE, Goldstein JA</td>
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<tr>
<td>8:05-8:08</td>
<td>Combined sagittal and unicoronal synostosis: preoperative assessment and outcomes after spring-assisted surgery</td>
<td>Giovanni Maltese (Department of Plastic Surgery, Institute of Clinical Science, University of Göteborg, Sahlgrenska University Hospital, Göteborg, Sweden)</td>
<td>Maltese G, Tarnow P, Wikberg E, Bernhardt P, Kölby L</td>
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<tr>
<td>8:08-8:13</td>
<td>Decreased Craniosynostosis Deformity Relapse Following Removal of Compensations</td>
<td>James P. Bradley (Division of Plastic and Reconstructive Surgery, Temple University School of Medicine, USA)</td>
<td>Bradley JP, Lee JC, Hindin DI, Kawamoto HK</td>
</tr>
<tr>
<td>8:13-8:18</td>
<td>Power-Assisted Particulate Bone Harvesting Minimizes Osseous Defects After Cranial Vault Reconstruction</td>
<td>Brad M. Gandolfi (Duke University Medical Center, Division of Plastic, Maxillofacial, and Oral Surgery, USA)</td>
<td>Gandolfi BM, Hirji SA, Sobol DL, Allori AC, Marcus JR</td>
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<tr>
<td>8:18-8:30</td>
<td>Discussion</td>
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## Concurrent Session 2

**Craniosynostosis 7**  
Chairs: Charles Davis (New Zealand) & Mark Proctor (USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation Title</th>
<th>Presenter &amp; Affiliation</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>8:30-8:35</td>
<td>Evaluation of long-term sensory outcomes following cranial vault reconstruction</td>
<td>Jana Dengler (University of Toronto, Canada)</td>
<td>Dengler J, Ho E, Klar E, Forrest CR</td>
</tr>
<tr>
<td>8:35-8:38</td>
<td>Sagittal Synostosis More Than Aesthetics</td>
<td>Kamilah A. Dowling (Montefiore Medical Center, USA)</td>
<td>Dowling KA, Tepper O, Goodrich JT</td>
</tr>
</tbody>
</table>
Wednesday, 16 September

54 Sagittal suture synostosis without scaphocephalic deformation.
Presenter: Kazuaki Shimoji
Affiliation: Department of Neurosurgery Juntendo University School of Medicine, Tokyo, JAPAN
Authors: Shimoji K, Akiyama O, Kimura T, Shimoji T, Komuro Y, Miyajima M, Arai H

55 Less is More? Quantitative Comparison of Endoscopic-Assisted Techniques in the Management of Sagittal Synostosis
Presenter: Suresh N. Magge
Affiliation: Pediatric Neurosurgery, Children’s National Medical Center, USA
Authors: Magge SN, Wood BC, Ahn ES, Wang JY, Keating RF, Rogers GF

56 10 Year Long Term Outcome of Endoscopic Sagittal Craniosynostosis Repair
Presenter: Eric Stelnicki
Affiliation: Cleveland Clinic Florida, USA
Authors: Stelnicki E, Hertzler D, Eberle N, Rodriguez L

57 Endoscope-assisted craniectomy with post-operative helmet for treatment of craniosynostosis in Japan
Presenter: Makoto Hikosaka
Affiliation: Department of Plastic Surgery, National Center for Child Health and Development, Japan
Authors: Hikosaka M, Kaneko T, Morota N, Ogiwara H, Takamatsu A, Kajita H, Nagashima H, Ohara H, Tokuyama E, Yamaguchi K

58 Bilateral Endoscopic Suturectomy and Helmet Therapy for Bilateral Coronal Craniosynostosis
Presenter: Mark R. Proctor
Affiliation: Department of Neurosurgery, Boston Children’s Hospital, Harvard Medical School, USA
Authors: Proctor MR, Rottgers SA, Syed H, Jeelani Y, Yang E, Meara JG

59 Aesthetic outcomes of molding helmet therapy with spring-mediated cranioplasty for sagittal craniosynostosis
Presenter: Jackie Haas
Affiliation: University of Pennsylvania, USA/Children’s Hospital of Philadelphia, USA
Authors: Haas J, Swanson JW, Mitchell BT, Storm JP, Bartlett SP, Heuer G, Taylor JA

60 The Effect of Preoperative Molding Helmet in Patients with Sagittal Synostosis—Follow Up Study
Presenter: Asra Hashmi
Affiliation: Department of Plastic and Reconstructive Surgery Wayne State University/Detroit Medical Center, USA
Authors: Hashmi A, Sood S, Rozzelle A

61 Where does the “volcano sign” come from in sagittal synostosis surgery?
Presenter: Ruth E. Bristol
Affiliation: Phoenix Children’s Hospital, USA/Barrow Neurological Institute, USA/Barrow Cleft and Craniofacial Center, USA
Authors: Bristol RE, Mahaney K, Singh DJ, Beals SP

9:14 - 9:30 Discussion
| Time       | Session                          | Title                                                                 | Presenters                                                                                      | Affiliations                                                                                   |
|-----------|----------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 9:30 - 10:30 | Concurrent Session 3              | Craniosynostosis 8                                                    | Chairs: Scott P. Bartlett (USA) & Takuya Akai (Japan)                                        |
| 9:30 - 9:33 | 62                               | Fronto-orbital Expansion: Reversing the paradigm of sagittal synostosis correction for late presentation | David Staffenberg                                                                                 | New York University Medical Center, USA                                                        |
| 9:33 - 9:38 | 63                               | Application of Distraction Osteogenesis for elderly Scaphocephaly Children | Shinsuke Akita                                                                                   | Department of Plastic and Reconstructive Surgery, Chiba University, Japan                     |
| 9:38 - 9:43 | 64                               | Comparison of two techniques for nonsyndromic sagittal craniosynostosis: morphological outcomes | Christopher R. Forrest                                                                            | Division of Plastic and Reconstructive Surgery, The Hospital for Sick Children, Canada        |
| 9:43 - 9:46 | 65                               | Computer Aided Design and Manufacturing in Cranial Vault Remodeling for Non-syndromic Sagittal Suture Synostosis | Gerhard S. Mundinger                                                                             | Johns Hopkins Hospital, Department of Plastic & Reconstructive Surgery, USA                  |
| 9:46 - 9:49 | 66                               | One-piece bone flap osteotomy using thread wire saw for fronto-orbital advancement in craniosynostosis | Takuya Akai                                                                                      | Department of Neurosurgery, Kanazawa Medical University, Japan                               |
| 9:49 - 9:54 | 67                               | Distraction osteogenesis vs. conventional fronto-orbital advancement for the treatment of Unicoronal Synostosis | Youssef Tahiri                                                                                    | Riley Hospital for Children, USA                                                              |
| 9:54 - 9:59 | 68                               | Springs in Craniofacial surgery-Selection of appropriate cases        | Charles Davis                                                                                    | Central and Southern Craniofacial Program, New Zealand                                       |
| 9:59 - 10:04 | 69                               | Squamosal suture synostosis: incidence, associations and impact in a craniofacial population | Greg Thomas                                                                                      | Oxford Craniofacial Unit, UK                                                                 |

**Wednesday, 16 September**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
<th>Affiliations</th>
</tr>
</thead>
</table>
| 10:04 - 10:09 | 70                                                                      | Use of Acellular Dermal Matrix in Craniofacial Reconstruction          | Presenter: Anil Madaree                                                      | Affiliation: Nelson R Mandela School of Medicine, University of Kwazulu Natal, South Africa  
Author: Madaree A                                                                 |
| 10:09 - 10:14 | 71                                                                      | Molding helmet therapy for the infants with deformational plagiocephaly: our experience of 200 cases | Presenter: Ako Takamatsu                                                    | Affiliation: Plastic Surgery, National Center for Child Health and Development, Japan  
Authors: Takamatsu A, Kaneko T, Hikosaka M, Ogiwara H, Morota N, Kaneko A |
| 10:14 - 10:30 |                                                                         | Discussion                                                            |                                                                            |                                                                                                                                             |
| 8:00 - 9:10   | **Concurrent Session 4**                                                | **Hypertelorism Rare Cleft Trauma Tumor 1**                          | **Chair**: Michael Dover (UK) & Anil Madaree (South Africa)                |                                                                                                                                             |
| 8:00 - 8:05   | 72                                                                      | Surgical strategies for soft tissue reconstruction in hypertelorbitism. | Presenter: Cassio Eduardo Raposo Amaral                                      | Affiliation: SOBRAPAR, Brazil  
Authors: Raposo Amaral CE, Denadai R, Ghizoni E, Buzzo C, Raposo Amaral CA                                                                 |
| 8:05 - 8:10   | 73                                                                      | Improving Results in Orbital Hypertelorism Correction by Applying Nasoethmoid Fracture Techniques | Presenter: Larry A. Sargent                                                   | Affiliation: University of Tennessee College of Medicine Chattanooga, USA  
Author: Sargent LA                                                                                                                     |
| 8:10 - 8:15   | 74                                                                      | The origins & presentation of patients with midline Tessier 0, 14 & 0-14 clefts managed at a single craniofacial unit | Presenter: Thomas E. Pidgeon                                                   | Affiliation: University Hospital Coventry and Warwickshire, UK  
Authors: Pidgeon TE, Flapper WJ, Anderson PJ, David DJ                                                                                   |
| 8:15 - 8:20   | 75                                                                      | Rare Tessier’s Cleft N° 6, about 5 cases.                             | Presenter: Philippe Pellerin                                                   | Affiliation: French National reference center for rare cranio maxillo facial malformations, Lille University Hospital, France/Department of cranio maxillo facial surgery, Plastic surgery hospital of the Chinese Academy of Medical sciences, China/Cleft and cranio facial center, Jeyasekharan hospital, India  
Authors: Pellerin P, Zhang ZY, Yin L, Tang XJ, Richardson S                                                                                 |
| 8:20 - 8:25   | 76                                                                      | Intrallesional Nd-YAG laser and intratumoral ligation as a cure for craniofacial arteriovenous malformations | Presenter: Nond Rojvachiranonda                                               | Affiliation: Department of Surgery, Faculty of Medicine, Chulalongkorn University, Thailand  
Authors: Rojvachiranonda N, Lerdlum S, Mahatumarat C                                                                                       |
77 Pediatric Maxillofacial Trauma and Its Impact On Developing Dentition: A Retrospective Review of 117 Patients
Presenter: Sanjay Naran
Affiliation: University of Pittsburgh Department of Plastic Surgery, USA
Authors: Naran S, Camison L, Lam B, Basri O, Schuster L, Martin B, Losee JE

78 COMPUTER PLANNING AND NAVIGATION FOR CRANIOMAXILLOFACIAL TUMORS AND RECONSTRUCTION WITH FIBULA FREE FLAPS
Presenter: Francisco Alamillos
Affiliation: Oral and Maxillofacial Surgery Service, University Hospital Reina Sofia, Spain
Authors: Alamillos F, Dean A, Heredero S, García B, Ruiz MASERA JJ, Solivera J

79 Early intermaxillary traction and delayed reduction for LeFort fracture
Presenter: Akimitsu Sato
Affiliation: Department of Plastic and Reconstructive Surgery, Tohoku University, Japan
Authors: Sato A, Imai Y, Tachi M

80 Island superficial temporal artery flap for reconstruction of complex facial defects: A new algorithm
Presenter: Tarek M. Elbanoby
Affiliation: Plastic Surgery Department, Alazhar University, Egypt/craniofacial unit, Naser institute, Egypt.
Author: Elbanoby TM

81 An Outcomes Comparison Between Autologous and Alloplastic Cranioplasty in the Pediatric Population
Presenter: Mathew Greives
Affiliation: University of Texas Health Sciences Center at Houston, USA/Division of Pediatric Plastic Surgery, USA/Department of Pediatric Surgery, USA
Authors: Greives M, Fu KJ, Barr RM, Kerr ML, Shah MN, Fletcher SA, Sandberg DI, Teichgraeber JF

82 Single Stage Cranioplasty Following Skull Neoplasm Resection Using Customized Craniofacial Implants
Presenter: Jens U. Berli
Affiliation: The Johns Hopkins University School of Medicine, USA/The Johns Hopkins Hospital Department of Plastic and Reconstructive Surgery, USA

83 u-HA/PLLA composite sheet in orbital wall reconstruction
Presenter: Takeshi Miyawaki
Affiliation: Department of Plastic and Reconstructive Surgery, The Jikei University School of Medicine, Japan
Authors: Miyawaki T, Umeda G, Tomita S, Nishimura R, Sakai S, Ninomiya K

8:56 - 9:10 Discussion
| 9:10 - 10:30 | **Concurrent Session 5**  
**Hypertelorism Rare Cleft Trauma Tumor 2**  
*Room B (2F Soara III)*  
*Chairs: Anthony Wolfe (USA) & Cassio Eduardo Raposo Amara (Brazil)* |
|-------------|------------------------------------------------|
| 9:10 - 9:15 | 84  
Incidence of lower eyelid complications after a transconjunctival approach: influence of repeated incisions.  
Presenter: Masanobu Yamashita  
Affiliation: Kanazawa Medical University, Japan  
Authors: Yamashita M, Yamashita A, Kishibe M, Shimada K, Kawakami S |
| 9:15 - 9:20 | 85  
FACIAL INFILTRATING LIPOMATOSIS (FIL): THE VALUE OF SURGICAL RESECTION BASED ON TIMING AND OUTCOMES.  
Presenter: Dov C. Goldenberg  
Affiliation: Division of Plastic Surgery, Hospital das Clinicas, University of Sao Paolo School of Medicine, Brazil/Hospital Municipal Infantil Menino Jesus, Sao Paulo, Brazil  
Authors: Goldenberg DC, Smaniotto PH, Fioravanti AB, Hiraki PY, Fernandes TR, Koga A |
| 9:20 - 9:23 | 86  
The subcranial/transglabellar approach: Our experience with 50 cases.  
Presenter: Juan Solivera  
Affiliation: Department of Neurosurgery, Hospital Universitario Reina Sofia, Spain  
Authors: Solivera J, Heredero S, Blanco C, Lozano JE |
| 9:23 - 9:26 | 87  
Elucidation of Genetic Basis of Craniofacial Hyperostoses  
Presenter: Yoshitaka Kubota  
Affiliation: Department of Plastic Surgery, Chiba University, Japan  
Authors: Kubota Y, Mitsukawa N, Uchida M, Uchida Y, Akita S, Hasegawa M, Satoh K |
| 9:26 - 9:31 | 88  
Craniofacial approach to en plaque cranio-orbital meningiomas: Strategies and lessons learned.  
Presenter: Rachna S. Ram  
Affiliation: Cranio-maxillofacial, Plastic And Burns Unit, Hutt Hospital DHB, New Zealand  
Authors: Ram RS, Wickremesekera A, Davis C |
| 9:31 - 9:34 | 89  
Application of a mini-preauricular incision, trans-parotid approach for surgical management of condylar fracture  
Presenter: Po-Fang Wang  
Affiliation: Department of Plastic and Reconstructive surgery, Chang Gung Memorial Hospital, Taiwan  
Authors: Wang P, Liao H, Chen CT |
| 9:34 - 9:39 | 90  
Risk factors analysis for outcome of indirect traumatic optic neuropathy (TON) with steroid pulse therapy  
Presenter: I-Li Lai  
Authors: Lai I, Liao H |
| 9:39 - 9:44 | 91  
Fibrous Dysplasia: Opinions on the Indications for the Unroofing of Circumferentially Encased Optic Nerves  
Presenter: Craig Rowin  
Affiliation: Miami Children’s Hospital, USA  
Authors: Rowin C, Wolfe SA, Satterwhite TS |
9:44 - 9:49 (5min.)

92

Combining Navigation and Endoscopy for Orbital Reconstruction

Presenter: Chien-Tzung Chen
Affiliation: Chang Gung Memorial Hospital, Taiwan
Author: Chen CT

9:49 - 9:54 (5min.)

93

Sphenoid dysplasia in neurofibromatosis: Patterns of presentation and outcomes of treatment

Presenter: Scott P. Bartlett
Affiliation: University of Pennsylvania, USA/Children’s Hospital of Philadelphia, USA
Authors: Bartlett SP, Swanson JW, Ligh CA, Shubinets V, Mitchell BT, Whitaker LA, Taylor JA

9:54 - 9:57 (3min.)

94

Comparison of custom CAD/CAM PEEK, HTR, and titanium implants for craniofacial reconstruction in children

Presenter: Phuong D. Nguyen
Affiliation: Division of Plastic and Reconstructive Surgery, The Hospital for Sick Children, Canada
Authors: Nguyen PD, Smith DM, Forrest CR, Phillips JH

9:57 - 10:02 (5min.)

95

Surgery of Craniofacial Venous Malformations—New Strategies

Presenter: Nguyen Hong Ha
Affiliation: Viet Duc Hospital, Vietnam
Authors: Ha NH, McKinnon M

10:02 - 10:07 (5min.)

96

Navigation assisted standardized Osteotomies as intracranial and extracranial approaches to the skull base

Presenter: Robert A. Mischkowski
Affiliation: Department of Oral, Maxillofacial and Facial Plastic Surgery, Medical Center Ludwigshafen, Germany
Authors: Mischkowski RA, Thiele OC

10:07 - 10:30 Discussion