XVII Congress of the International Society of Craniofacial Surgery (ISCFS)

October 24th, 2017
Pre-Congress Course

October 25th-28th, 2017
ISCFS Meeting

Venue & Headquarter
Fiesta Americana Coral Beach Hotel
Cancun, Quintana Roo, Mexico

PROGRAM
CMF Surgery

Individualizing therapeutic concepts.

Surgical innovation is our passion.

Applying advanced technologies.

Understanding surgeon’s requirements.

Developing comprehensive solutions.

Maximizing daily success.

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WELCOME TO THE ISCFS 2017 IN MEXICO

As President of the International Society of Craniofacial Surgery (ISCFS), I am delighted to welcome you to 17th Biennal Congress to be held in Cancun, Mexico from October 24th to 28th, 2017. I hope you will enjoy the beauty of the Mexican Caribbean at Cancun, a very unique place, where the history of the Maya culture reaches the modernism of the contemporary Mexico.

Nowadays, more than 50 years after Craniofacial Surgery was born, it is my sincere desire that we all will richly benefit for this experience and take back home new knowledge and richness of spirit to enhance our practice and results.

The ISCFS Officers and a selected group of Founding Members will work in highly specialized scientific program, in which each topic will be analyzed from the very basic to the most sophisticated and modern approach. Naturally we will include the “success”, that fundamentally change the patient’s life, but also the “failures”, they encourage us to explore further for different and better treatments, always trying to find the better smile from our patients. No doubt it will be an exciting and stimulating Scientific Program.

Our social program will also be very attractive and along with the natural beauty of the place, which itself renews the soul, the group will visit the pre-hispanic city of Chichen - Itza, one of the wonders of the world and sacred site of the New Mayan culture. Throughout its nearly 1,200-year history, different people have left their mark on the city and a full vision of the world and the universe is revealed in their stone monuments and artistic works.

Everybody is welcome to shake hands at the welcome cocktail, also to listen to the lectures honoring Paul Tessier and Fernando Ortiz Monasterio during the scientific sessions. As well on Friday night dress up elegant gowns for the gala dinner and share friendship, camaraderie and new perspectives. All these activities will be the ideal framework to enjoy wine and beer, local spicy food and high Mexican cuisine gastronomy, now so trendy around the world.

Please do not forget your swimsuit! You can not miss the chance to feel the pleasure of plunging into the turquoise and gently warm water in Cancun.

Receive my warmest regards!

Dr. Fernando Molina
President, ISCFS
Dear ISCFS friends and members, dear participants,

It is my pleasure as Vice-President of this society to welcome you as at this outstanding meeting organized by our President, Fernando Molina. Twenty four years after the Oaxaca meeting, organized by Fernando Ortiz Monasterio, the ISCFS is back to Mexico, country of numerous craniofacial contributions as well as filled with archeological treasures.

I was lucky to meet the “Fernandos” in 1993 when doing a fellowship in the Mexican team. It was obvious that the breakthrough of osteodistraction initiated by MacCarthy was igniting a revolution in the craniofacial congenital care, and Mexico the place to be. I learnt a lot and we were all excited by imagining the endless applications of distraction. Many of the members of this society spent some time in the Gea Gonzalez Hospital to learn these new techniques. The fever went down, but this society can be proud that it had promoted, considerable advances after Tessier’s initial breakthrough.

I trust our ISCFS will still be able to maintain its scientific leadership in the craniofacial care. I am sure that the XVII ISCFS meeting will contribute by being a very stimulating one; but also a most enjoyable event, not to forget Mexican hospitality, food and history. Thank you, Fernando!

Eric Arnaud, Paris, France
ISCFS Vice-President
ISCFS 2017 Organizing Committee

Fernando Molina, Mexico
**PRESIDENT**

Eric Arnaud, France
**VICE PRESIDENT**

Irene Mathijssen, The Netherlands
**SECRETARY-TREASURER**

Kaneshige Satoh, Japan
**IMMEDIATE PAST PRESIDENT**

**Council Members**

Charles Davis, New Zealand

Stephen Dover, United Kingdom

Alvaro Figueroa, United States

Richard Hopper, United States

Juan Carlos Rodriguez, Argentina

**ISCFS Founding Members**

Ernest P. Caronni, MD, Italy

David J. David, MD, Australia

Milton T. Edgerton, MD, USA

Ian T. Jackson, MD, USA

Bengt Johanson, MD, Sweden

Henry K. Kawamoto, MD, USA

Daniel Marchac, MD, France

Joseph G. McCarthy, MD, USA

Ian R. Munro, MD, USA

Joseph E. Murray, MD, USA

Fernando Ortiz-Monasterio, MD, Mexico

Jorge Psillakis, MD, Mexico

Kenneth E. Salyer, MD, USA

Michael Striker, MD, France

Paul L. Tessier, MD, France

Jacques van der Meulen, MD, The Netherlands

Linton A. Whitaker, MD, USA

S. Anthony Wolfe, MD, USA

**Past Presidents and Congress Meeting Sites**

1985 Paul Tessier, La Napoule, France

1987 Paul Tessier, New Delhi, India

1989 Ian R. Munro, Florence, Italy

1991 Joseph G. McCarthy, Santiago de Compostela, Spain

1993 Fernando Ortiz-Monasterio, Oaxaca, Mexico

1995 Daniel Marchac, St. Tropez, France

1997 Linton A. Whitaker, Santa Fe, New Mexico, USA

1999 Yu-Ray Chen, Taipei, Taiwan

2001 Claes Lauritzen, Visby Gotland, Sweden

2003 Kenneth E. Salyer, Monterey, California, USA

2005 David J. David, Queensland, Australia

2007 S. Anthony Wolfe, Bahia, Brazil

2009 Steven Wall, Oxford, UK

2011 Anil Madaree, Livingstone, Zambia

2013 Scott Bartlett, Jackson Hole, USA

2015 Kaneshige Satoh, Maihama Tokio Bay, Japan

2017 Fernando Molina, Mexico
Ortiz Monasterio Memorial Lecture

2013. JACKSON HOLE, USA
Joseph McCarthy

2015 TOKIO, JAPÓN
David J. David.

Tessier Memorial Lecture

2003. MONTEREY, CAL.
Michael Longaker

2005. QUEENSLAND, AUS.
Jeffrey Richardson

2007. BAHIA, BRAZIL

2009. OXFORD, UK

2011. LIVINGSTONE, ZAMB.

2013. JACKSON HOLE, USA

2015 TOKIO, JAPÓN
Joseph McCarthy.

TESSIER MEDAL RECIPIENTS

2005 Fernando Ortiz-Monasterio
Mexico

2009 Linton Whitaker
USA

2013 Daniel Marchac
France

2015 Joseph McCarthy
USA
GENERAL INFORMATION
**GENERAL INFORMATION**

**Registration**
The Congress Registration desk hours are:

- **Monday 23rd**: 17:00 - 20:00 hrs.
- **Tuesday 24th**: 7:00 – 18:00 hrs.
- **Wednesday 25th**: 7:00 – 18:00 hrs.
- **Thursday 26th**: 7:30 – 10:30 hrs.
- **Friday 27th**: 7:30 – 18:30 hrs.
- **Saturday 28th**: 7:30 – 12:30 hrs.

**Registration Entitlements**
- Entry to all scientific sessions and exhibit hall
- Daily Lunch
- Morning and Afternoon Refreshments
- Congress Bag
- Copy of Program / Abstract Book
- Welcome Reception

**Exhibit Hall Hours**
All registrants are invited to visit the exhibits located in the Hotel.

- **Wednesday 25th**: 8:00 – 18:00 hrs.
- **Thursday 26th**: 8:00 – 10:30 hrs.
- **Friday 27th**: 8:00 – 18:30 hrs.
- **Saturday 28th**: 8:00 – 12:30 hrs.

**Electricity**
The standard Cancun electricity supply is 110 volts. Hotels usually offer voltage converters for 220 volt devices. Many sockets do not accept polarized or three-prong plugs so it is recommended that you bring your own adapter but you can usually buy these in the hotel shop.

**Travel and Program Disclaimers**
In the event of any travel disruptions, Congress Organizers will not be held responsible for any losses incurred by registrants en route to or from the Congress. The program is correct at the time of printing. Congress Organizers reserve the right to alter the program as necessary.

**Liability**
Congress Organizers are not liable for personal accidents, losses or damage to the private property of registered attendees or any accompanying persons during the Congress. Please make your own arrangements with respect to personal insurance.

**Congress Attire**
For the meetings and conference rooms: Business Casual (no jeans, shorts or bermudas)
For the Welcome Reception: A light long sleeve shirt with trousers. A local “guayabera” is ideal for this event.
For the Gala Dinner: Cocktail Dress
For men a dark suite and a tie, and for women short dresses (no long dresses are required)
For the Chichen-Itza Tour: Informal Clothing: Shorts, light trousers or Bermudas, shirt and comfortable shoes.

**Mobile Phones and Pagers**
As a courtesy to speakers and other registrants, we request that all mobile phones and pagers are switched off or muted before entering sessions.

**No Smoking Policy**
Registrants and guests should be aware that smoking is not permitted in public buildings and many hotels and restaurants including the Congress venue. Smoking is prohibited in the meeting and exhibit rooms at all times.

**Program Content Disclaimer**
The content of this program is presented solely for educational purposes for use by medical practitioners. This material is intended to express the opinions, techniques or approaches of the presenters. Sponsorship of this program and/or advertising by any company or organization are not to be construed, in any fashion, as an endorsement of the materials or products presented.

**Topic and Abstract Disclaimer**
All presentation titles and abstracts are printed as submitted by the speakers. ISCFS cannot be responsible for errors in spelling or content.

**Recording Policy**
Recording (photographic, video and audio) of the sessions, entertainers and exhibit hall during the ISCFS Congress is strictly prohibited.
PROGRAM AT A GLANCE
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<td>8:00</td>
<td>8:25 Pre-Congress Welcome</td>
<td>8:00-9:00 Concurrent Session 4 Rooms A and B</td>
<td>8:30 - 9:30 Concurrent Session 6 Rooms A</td>
<td>8:30 - 9:00 Concurrent Session 11 Rooms A and B</td>
<td>8:30 - 9:30 Coffee Break and Visit to the Exhibit</td>
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<td>8:00-10:30 Special Lectures Room A</td>
<td>9:00 - 9:30 Concurrent Session 7 Rooms A</td>
<td>9:00 - 10:00 Concurrent Session 7 Rooms B</td>
<td>9:30 - 10:00 Coffee Break and Visit to the Exhibit</td>
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<td>General Session 1</td>
<td>9:30 - 10:00 Coffee Break: Visit to the Exhibit and E-posters presentations</td>
<td>10:00 - 10:30 Concurrent Session 12 Rooms A and B</td>
<td>11:30 - 12:30 General Session 4: Rooms A and B</td>
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<tr>
<td>10:00</td>
<td>10:00 - 10:30 Panel Discussion 1 Room A</td>
<td>10:00 - 10:30 Concurrent Session 6 Rooms A</td>
<td>10:30-13:00 General Session 3: Paul Tessier Lecture Room A</td>
<td>10:00 - 11:30 Concurrent Session 12 Rooms A and B</td>
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<td>10:30 - 11:00 Coffee Break: Visit to the Exhibit and E-posters presentations</td>
<td>11:00 - 12:00 Panel Discussion 4 Room A</td>
<td>11:00 - 12:00 Panel Discussion 4 Room A</td>
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<td>12:00</td>
<td>12:00 - 13:00 Panel Discussion 3 Room A</td>
<td>12:00 - 13:00 Concurrent Session 8 Rooms A and B</td>
<td>12:00 - 13:00 Panel Discussion 5 Room A</td>
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<td>13:00</td>
<td>13:00 - 14:00 Lunch</td>
<td>13:00 - 14:00 Coffee Break</td>
<td>13:00 - 14:00 Lunch</td>
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<td>14:00</td>
<td>14:00 - 15:00 Concurrent Session 1 Rooms A and B</td>
<td>14:00 - 15:00 Concurrent Session 8 Rooms A and B</td>
<td>14:00 - 15:00 Concurrent Session 9 Rooms A and B</td>
<td>14:00 - 15:00 Concurrent Session 9 Rooms A and B</td>
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<td>15:00</td>
<td>15:00 - 16:00 Concurrent Session 2 Rooms A and B</td>
<td>15:00 - 16:00 Concurrent Session 9 Rooms A and B</td>
<td>15:00 - 16:00 Concurrent Session 10 Rooms A and B</td>
<td>15:00 - 16:00 Concurrent Session 10 Rooms A and B</td>
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<td>16:00</td>
<td>16:00 - 16:30 Coffee Break: Visit to the Exhibit and E-posters presentations</td>
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<td>17:00</td>
<td>16:30 - 18:15 Concurrent Session 3 Rooms A and B</td>
<td>16:30 - 18:30 Concurrent Session 10 Rooms A and B</td>
<td>16:30 - 18:30 Concurrent Session 10 Rooms A and B</td>
<td>16:30 - 18:30 Concurrent Session 10 Rooms A and B</td>
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<td>18:00</td>
<td>16:30 - 18:00 Concurrent Session 3 Rooms A and B</td>
<td>16:30 - 18:30 Concurrent Session 10 Rooms A and B</td>
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<td>16:30 - 18:30 Concurrent Session 10 Rooms A and B</td>
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<td>19:00</td>
<td>19:00 - 21:00 Opening Reception The Sunset Terrace at the Grand Fiesta Americana Coral Beach</td>
<td>19:30 - 20:00 Farewell Dinner Reception Foyer Grand Coral Room</td>
<td>19:30 - 20:00 Farewell Dinner Reception Foyer Grand Coral Room</td>
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<td>20:00 - 23:00 Farewell Dinner Grand Coral Room 1</td>
<td>19:30 - 20:00 Farewell Dinner Reception Foyer Grand Coral Room</td>
<td>19:30 - 20:00 Farewell Dinner Reception Foyer Grand Coral Room</td>
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Congress Conferences Room
Grand Coral Ballroom / Fourth floor

Pre-Congress Conference Reg Room
Coral Garden Ballroom / Second Floor

FLOOR MAP
Registration Area
Coral Sea Room

CORAL SEA ROOM
137 m² / 1,471 sq.ft. Room Height: 2.98 m / 9.8'.
PRE-CONGRESS PROGRAM
**SESSION 1**  
**CHAIRMAN:** Anil Madaree, M.D., **CO-CHAIRMAN:** Charles Davis, M.D.

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<th>Presentation Title</th>
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<tr>
<td>08:30 – 08:45</td>
<td>Juan Carlos Rodríguez, M.D. (Argentina)</td>
<td>Spring assisted for posterior expansión and simultaneous fronto-orbital advancement in syndromic craniosynostosis</td>
</tr>
<tr>
<td>08:45 – 09:00</td>
<td>Charles Davis, M.D. (New Zealand)</td>
<td>Facial clefts: principles of planning and treatment up-date</td>
</tr>
<tr>
<td>09:15 – 09:30</td>
<td>Eric Arnaud, M.D. (France)</td>
<td>Long-term outcomes in sagittal craniosynostosis: what works and what doesn’t. Patients with at least 10 years of follow up. Compare various techniques: open remodeling (whole vault vs regional remodeling), strip + helmet, springs with regards to specific outcome measures: shape, rate of reoperation, incidence of increased intra-cranial pressure, neuropsychological testing results.</td>
</tr>
<tr>
<td>09:30 – 09:45</td>
<td>Steve Buchman, M.D. (USA)</td>
<td>The Hypercorrection Technique for metopic, unicoronal and bicoronal craniosynostosis: Why the need to overcorrect the supraorbital bar. Long term results</td>
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<tr>
<td>09:45 – 10:00</td>
<td>[Discussion]</td>
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<tr>
<td>10:00 – 10:30</td>
<td>[Coffee Break]</td>
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**SESSION 2:**  
**CHAIRMAN:** Steve Buchman, M.D., **CO-CHAIRMAN:** Kaneshige Satoh, M.D.

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<th>Time</th>
<th>Speaker</th>
<th>Presentation Title</th>
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<tr>
<td>10:30 – 10:45</td>
<td>Jesse Taylor, M.D. (USA)</td>
<td>Treatment of Unicoronal craniosynostosis: timing, type, and long-term outcomes. Panelists who do various types of remodeling (strip + helmet, springs, distraction, conventional unilateral remodeling, conventional bilateral remodeling) can debate their results</td>
</tr>
<tr>
<td>10:45 – 11:00</td>
<td>Irene Mathijssen, M.D. (The Netherlands)</td>
<td>Challenging cases in infant craniosynostosis surgery: (case presentations of kleebachschadel, pan-synostosis, syndromic w airway compromise and globe exposure: what would panelists do, when, and why? )</td>
</tr>
<tr>
<td>11:00 – 11:15</td>
<td>[Discussion]</td>
<td></td>
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</tbody>
</table>
| 11:15 – 12:30 | My best case ever after, my medical, scientific and human reasons  
ISCFS Past-Presidents Session:  
Chairman: Fernando Molina, M.D.  
Co-Chairman: Irene Mathijssen, M.D.  
Speakers: Anil Madaree, M.D. (South Africa), Kenneth E. Salyer, M.D. (USA), Scott Bartlett, M.D. (USA), Joseph G. McCarthy, M.D. (USA), S. Anthony Wolfe, M.D. (USA), Kaneshige Satoh, M.D. (Japan), Linton A. Whitaker, M.D. (USA), Steven Wall, M.D. (UK) |                                                                                                           |
| 12:30 – 12:45 | [Discussion] |                                                                                                           |
Pre-Congress Program
Tuesday, October 24th, 2017
Coral Garden Ballroom

12:45 – 14:00 Lunch

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<tr>
<th>Time</th>
<th>Session 3 Chairmen</th>
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<tr>
<td>14:00 – 14:15</td>
<td>Eric Arnaud, M.D., Jessie Taylor, M.D.</td>
<td>Observation of long-term craniosynostosis: relapse or biological continuity of a congenital deformity</td>
</tr>
<tr>
<td>14:15 – 14:30</td>
<td></td>
<td>Joseph Losee, M.D. (USA) New techniques in cleft palate surgery: buccal fat, buccal myomucosal flaps, etc.</td>
</tr>
<tr>
<td>14:30 – 14:45</td>
<td></td>
<td>Derec M. Steinbacher, M.D. (USA) Evolving techniques in Orthognathic surgery: surgery first, CAD/CAM planning, custom-milled plates and screws, mandible first vs maxilla first, the role of soft tissue planing in complex CF cases</td>
</tr>
<tr>
<td>14:45 – 15:00</td>
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<td>Discussion</td>
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<td>15:00 – 16:00</td>
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<td>Hemifacial Microsomia Panel: Controversies in hemifacial macrosomia. Timing and vector selection in mandibular distraction. Early versus late MDO. External versus semi-buried devices. Orthognatic vs Distraction</td>
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<tr>
<td>16:00 – 16:30</td>
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<td>Coffee Break: Visit to the Exhibit and E-Posters Presentations</td>
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<tr>
<th>Time</th>
<th>Session 4 Chairmen</th>
<th>Presentation</th>
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<tr>
<td>16:30 – 16:45</td>
<td>Steven Wall, M.D., Juan Carlos Rodríguez, M.D.</td>
<td>Evolving concepts in syndromic craniosynostosis: The midface, when, why, what? Choice of midface correction (Lefort III, monobloc, Lefort II + zygoma re-positioning, facial bipartition). Timing of midface surgery and rationale for each in an Aperts, Crouzon, Pfeifer patient</td>
</tr>
<tr>
<td>16:45 – 17:00</td>
<td></td>
<td>Juan Martin Chavanne, M.D. (Argentina) The five keys to success in hiperteleorbitism: current strategies and morphologic outcomes with surgical correction</td>
</tr>
<tr>
<td>17:15 – 17:30</td>
<td></td>
<td>Gary Rogers, M.D. (USA) Normal cephalic, asymptomatic craniosynostosis: found by chance vs. late onset causing functional problems. Timing of surgery and the potential functional implications</td>
</tr>
<tr>
<td>17:30 – 17:45</td>
<td></td>
<td>Roberto L. Flores The Surgical Treatment of Pierre Robin Sequence: To distract or not to distract.</td>
</tr>
<tr>
<td>17:45 – 18:00</td>
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<td>Nivaldo Alonso, M.D. (Brazil) Syndromic Craniosynostosis: stability or relapse in the long term.</td>
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<td>18:00 – 18:15</td>
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<td>Discussion</td>
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OFFICIAL PROGRAM
## ROOM A

### Special Lectures

<table>
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| 08:00 – 08:05 am | Welcome to Cancun, Mexico  
Opening Remarks                                                                 |
| 08:05 - 08:25 am  | Diseases in Prehispanic Mexico  
Speaker: Eduardo Matos Moctezuma                                              |
| 08:25 – 08:45 am  | Guest Lecture: ISCFS: A petite histoire  
Speaker: Joseph G. Mc Carthy, M.D.                                           |
| 08:45 - 08:55 am  | Eulogy to Jacques van der Muelen (The Netherlands)  
Speaker: Joseph Gruss, M.D.                                                   |
| 08:55 – 09:05 am  | Special Lecture: Safely in Reconstructive Surgery  
Speaker: Eugenio Rodríguez Olivares, M.D.                                     |
| 09:05 – 09:11 am  | Special Lecture: Craniopagus  
Speaker: Jesse Taylor, M.D.                                                    |
| 09:11 - 09:30 am  | President Lecture: Curiosity in Craniofacial Surgery  
Speaker: Fernando Molina, M.D.                                                |

### General Session 1

<table>
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<th>Discussion</th>
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</table>
| 09:30 – 10:30 am  | **PANEL DISCUSSION 1**  
The non-syndromic craniosynostosis: Exploring the best treatment  
Moderator: Kennet Salyer, M.D.  
Panelist: John Persing, M.D., Scott Bartlett, M.D., Irene Mathijssen, M.D., Suresh Magge, M.D. |
| 10:30 – 11:00 am  | Coffee Break: Visit to the Exhibit and E-Posters Presentations              |
| 11:00 – 12:00 pm  | **PANEL DISCUSSION 2**  
Midface Distraction: Long Term Results  
Moderator: Richard Hopper  
Panelist: Jeffrey Fearon, Joseph G. Mc Carthy, Richard Hopper |
| 12:00 – 01:00 pm  | **PANEL DISCUSSION 3**  
The Apert Syndrome: analyses results after Classic osteotomies vs. distraction  
Moderator: Antony Wolfe  
Panelist: Eric Arnaud, David Dunaway, James Bradley, Richard Hopper |
| 01:00 – 02:00 pm  | Lunch                                                                       |
**ROOM A**

**02:00 – 03:00 pm**

**CONCURRENT SESSION 1**

**Syndromic Craniosynostosis**

Moderators: Kaneshige Satoh, M.D., Andrew Heggie, M.D.

---

**2:00 pm**  
**Lectern 1**

**1**  
**THE EFFICIENCY OF ANTERIOR AND POSTERIOR DISTRACTION OSTEOGENESIS FOR CRANIOSYNOSTOSIS REPAIR**

Presenter: Amanda A. Gosman, M.D. (6 Min)

Authors: Amanda A. Gosman, Michael G. Brandel, Cecilia L. Dalle Ore, Chris M. Reid, Samuel Lance, Hal Meltzer

Institution: University of California, San Diego

---

**2:06 pm**  
**Lectern 2**

**2**  
**IMPROVEMENT OF SLEEP APNEA AFTER FRONTOFACIAL MONOBLOC IN 108 FACIOCRANIOSYNOSTOSES**

Presenter: Eric Arnaud M.D. (6 Min)

Authors: Eric Arnaud, S. Haber, G. Paternoster, S. James, B. Faurous, Ph. Meyer

Institution: Hospital Necker Craniofacial Unit

---

**2:12 pm**  
**Lectern 1**

**3**  
**A SOFT TISSUE PREDICTION MODEL TO EVALUATE OUTCOME OF FRONTOFACIAL DISTRACTION SURGERY IN SYNDROMIC CRANIOSYNOSTOSIS**

Presenter: Freida Angullia M.D. (3 min)

Authors: Freida Angullia, W R Fright, R Richards, A D Linney, S Schievano, D J Dunaway

Institution: Great Ormond Street Hospital for Children

---

**2:15 pm**  
**Lectern 2**

**4**  
**THE WHITAKER CLASSIFICATION OF CRANIOSYNOSTOSIS OUTCOMES: AN ASSESSMENT OF INTER-RATER RELIABILITY FOR FRONTAL-ORBITAL SURGERY**

Presenter: Ari Wes M.D. (3 min)

Authors: Ari Wes, Sanjay Naran, James Sun, Scott Bartlett, Linton Whitaker, Jesse Taylor

Institution: Children's Hospital of Philadelphia

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**2:18 pm**  
**Lectern 1**

**5**  
**TELESCOPING WITH MULTIPLE REVOLUTION CRANIAL OSTEOTOMIES IN PATIENTS WITH SIMPLE CRANIOSYNOSTOSIS**

Presenter: Diego Jose Caycedo M.D. (3 min)

Authors: Diego Jose Caycedo, Marcela Cabal, Luis Fernando Santacruz

Institution: Universidad del Valle, Centro Medico Imbanaco, Cali - Colombia

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**2:21 pm**  
**Lectern 2**

**6**  
**SELF-STABILIZING S-OSTEOTOMY IN FOREHEAD REMODELLING FOR CRANIOSYNOSTOSIS**

Presenter: David Johnson M.D. 170 (3 min)

Authors: David Johnson, Greg Thomas, Steven Wall

Institution: Oxford Craniofacial Unit
Scientific Program

Wednesday, October 25th, 2017
Grand Coral Ballroom

2:24 pm  
Discussion (10 min)

2:34 pm  
7  
LATE PRESENTATION OF SYRINX IN CROUZON PATIENTS AND THEIR CLINICAL SYMPTOMS  
Presenter: Irene Mathijssen M.D. (6 min)  
Authors: Irene Mathijssen, Priya Doriga, Robbin de Goederen, Sarah Versnel, Koen Joosten, Marie-Lise van Veelen  
Institution: Erasmus MC

2:40 pm  
8  
10-YEAR OUTCOME OF PRE-ADOLESCENT LEFORT III DISTRACTION OSTEOGENESIS IN SYNDROMIC CRANIOSYNOSTOSIS  
Presenter: Pradip Shetye M.D. (6 min)  
Authors: Pradip Shetye, Travis L. Gibson, Barry H. Grayson, Joseph G. McCarth  
Institution: NYU Langone Medical Center

2:46 pm  
9  
PEDIATRIC BLOOD MANAGEMENT TEAM IN CRANIOFACIAL SURGERY  
Presenter: John Girotto M.D. (6 min)  
Authors: John Girotto, Brian Boville, Josh Kelley, John Polley, Robert Mann, Dominic Sanfilippo  
Institution: Helen DeVos Childrens Hospital

2:52 pm  
Questions and Discussion (8 min)

ROOM B

02:00 – 03:00 pm  
CONCURRENT SESSION 1  
Syndromic Craniosynostosis  
Moderators: Cornelius Klein, M.D., Pia Vuola, M.D.

2:00 pm  
10  
THE TRANSFUSION OUTCOME OF PRE-OPERATIVE ADMINISTRATION OF IRON IN INFANT CRANIOSYNOSTOSIS SURGERY  
Presenter: Chelsea Durocher, M.D. Lisa Luxford, M.D. (3 min)  
Authors: Chelsea Durocher M.D., Lisa Luxford, Benita Lee, Nadia Naraine, Tara Der, John Phillips  
Institution: The Hospital for Sick Children

2:03 pm  
11  
RECTUS MUSCLE CYCLOROTATION AND STRABISMUS: IMPACT OF ORBITAL ANATOMY IN SYNDROMIC CRANIOSYNOSTOSIS  
Presenter: Linda Dagi, MD (3 min)  
Authors: Linda Dagi, MD, Sarah Mackinnon, MSc, OC(C), David Zurakowski, PhD, Sanjay Prabhu, MBBS  
Institution: Boston Children’s Hospital
2:06 pm  
Lectern 1  
12  
CHANGE IN SLEEP ARCHITECTURE AFTER CRANIAL VAULT SURGERY AND/OR SURGERY FOR OBSTRUCTIVE SLEEP APNEA IN SYNDROMIC CRANIOSYNOSTOSIS  
Presenter: Robbin de Goederen M.D. (3 min)  
Authors: Robbin de Goederen M.D, Caroline Driessen, Irene Mathijssen  
Institution: Erasmus MC Rotterdam  

2:09 pm  
Lectern 2  
13  
MORPHOLOGIC SEVERITY OF CRANIOSYNOSTOSIS: IMPLICATIONS FOR SPEECH AND NEURODEVELOPMENT  
Presenter: Kamlesh B. Patel M.D. (6 min)  
Authors: Damini Tandon, Gary B. Skolnick, Lynn M. Grames, Mary M. Cradock, Matthew D. Smyth, Kamlesh B. Patel  
Institution: Division of Plastic and Reconstructive Surgery, Department of Surgery, Washington University School of Medicine  

2:15 pm  
Lectern 1  
14  
NEURODEVELOPMENTAL, COGNITIVE, SPEECH, LANGUAGE, AND PSYCHOSOCIAL OUTCOMES FOR CHILDREN WITH A MUTATION IN THE TCF12 GENE AND ASSOCIATED CRANIOSYNOSTOSIS: A RETROSPECTIVE STUDY  
Presenter: Dr. Patrick Kennedy-Williams (6min)  
Authors: Dr. Patrick Kennedy-Williams, Sarah Kilcoyne, Dr. Helen Care, Prof. Andrew Wilkie, Mr David Johnson  
Institution: Oxford University Hospitals NHS Foundation Trust  

2:21 pm  
Discussion (10 min)  

2:31 pm  
Lectern 2  
15  
THE LIVERPOOL-YORK HEAD MODEL - A NOVEL SHAPE-BASED OUTCOMES TOOL FOR CRANIOFACIAL SURGEONS  
Presenter: Christian Duncan, M.D. (6 min)  
Authors: Christian Duncan, Mr Hang Dai Meng, Mr Will Smith PhD, Mr Nick Pears PhD  
Institution: Alder Hey Childrens Hospital NHSFT  

2:37 pm  
Lectern 1  
16  
FRONTO-FACIAL FEATURES OF UNILATERAL LAMBDOID CRANIOSYNOSTOSIS: A MULTI-CENTER ASSESSMENT  
Presenter: Joseph E Losee, M.D. (6 min)  
Authors: Jonathan Y Lee, Sanjay Naran, Jesse A Taylor, Jesse A Goldstein, Scott P Bartlett, Joseph E Losee  
Institution: University of Pittsburgh Medical Center  

2:43 pm  
Lectern 2  
17  
HYDROCEPHALUS IN FGFR BASED SYNDROMIC CRANIOSYNOSTOSIS - CORRELATING DISTINCT GENETIC MUTATIONS  
Presenter: Steven Wall, M.D. (6 min)  
Authors: Steven Wall M.D., O Manley, A Wilkie, D Jayamohan, D Johnson, S Magdum  
Institution: Oxford Craniofacial Unit
Scientific Program
Wednesday, October 25th, 2017
Grand Coral Ballroom

2:49 pm
Lectern 1
18
ANTERIOR CRANIAL VAULT RECONSTRUCTION WITH DISTRACTION FOR PRIMARY
AND SECONDARY CRANIOSYNOSTOSIS REPAIR
Presenter: Stephan Barrientos, MD (3 min)
Authors: Jason Miller, M.D., Stephan Barrientos, M.D.
Institution: University of Nebraska Medical Center

2:52 pm
Discussion (8 min)

ROOM A

03:00 – 04:00 pm
CONCURRENT SESSION 2
Sagittal Synostosis
Moderators: Steven Wal, M.D., Jack Van der Meulen, M.D.

3:00 pm
Lectern 2
19
MANAGING THE VARIATION IN DEFORMITY IN SAGITTAL SYNOSTOSIS USING CAL
VARIAL VAULT REMODELING
Presenter: David Johnson M.D. (3 min)
Authors: David Johnson M.D., Greg Thomas, Shailendra Magdum, Jay Jayamohan,
Peter Richards, Steven Wall
Institution: Oxford Craniofacial Unit

3:03 pm
Lectern 1
20
CRANIOTOMY WITH INTACT PERIOSTEUM REDUCES BLOOD LOSS IN PI-PLASTY
SURGERY FOR SAGITTAL SYNOSTOSIS
Presenter: Tobias Hallén M.D. (3 min)
Authors: Tobias Hallén M.D., Lars Kölby, Robert Olsson, Peter Tarnow, Giovanni Maltese
Institution: Dept of Neurosurgery, Sahlgrenska University Hospital, Gothenburg, Sweden

3:06 pm
Lectern 2
21
NUMERICAL MODELLING TO ASSESS THE EFFECT OF SURGICAL PARAMETERS ON
SPRING CRANIOPLASTY OUTCOMES
Presenter: Alessandro Borghi M.D. (3 min)
Authors: Alessandro Borghi M.D., Jan Bruse, Naiara Rodriguez Florez, Silvia Schievano,
David Dunaway, Owase Jeelani
Institution: UCL GOS Institute of Child Health and Great Ormond Street Hospital

3:09 pm
Lectern 1
22
LONG-TERM OUTCOMES OF SPRING-ASSISTED CRANIOPLASTY FOR SAGITTAL
CRANIOSYNOSTOSIS
Presenter: Daniel Couture M.D. (6 min)
Authors: Christopher Runyan, Daniel Couture, Christopher Michael Runyan,
Edreca Allison Thompson, Kyle Gabrick, Jungwon Genevieve Park,
Lisa Renee David
Institution: Wake Forest
23
SAGITTAL SYNOSOTOSIS: ADDRESSING THE TEMPORAL CONSTRAINT IN ENDOSCOPIC CORRECTION
Presenter: Nicole Kurnik M.D. (6 min)
Authors: Davinder J. Singh, Davinder J. Singh, Nicole Kurnik, Ruth Bristol, David Shafron
Institution: Phoenix Childrens Hospital/Barrow Cleft and Craniofacial Center/Mayo School of Medicine

3:21 pm  Discussion (10 min)

24
THREE-DIMENSIONAL HEAD SHAPE CHANGES AFTER EXTENDED SAGITTAL STRIP CRANIECTOMY AND HELMET THERAPY
Presenter: Rami R. Hallac (3 min)
Authors: Rami R. Hallac, Pang-yun Chou, Christopher Warne, Neil M. Stewart, Alex A. Kan, Christopher Derderian
Institution: Childrens Health

25
LONGITUDINAL CORRELATES OF NEURODEVELOPMENT IN PATIENTS WITH UNICORONAL OR METOPIC CRANIOSYNOSTOSIS
Presenter: Alexis L. Johns, PhD (3 min)
Authors: Alexis L. Johns, PhD, J. Gordon McComb, MD, Michaela Tsuha, BS, Mark M. Urata, M.D., DDS
Institution: Childrens Hospital Los Angeles

26
A SINGLE INSTITUTION EXPERIENCE WITH ENDOSCOPIC SUTURECTOMY AND CRANIAL VAULT REMODELLING FOR TREATMENT OF SAGITTAL CRANIOSYNOSTOSIS
Presenter: Mark R. Proctor, M.D. (6min)
Authors: John G. Meara, Mark R. Proctor, Kathryn V. Isaac
Institution: Boston Children’s Hospital

27
DEVELOPMENTAL OUTCOMES IN CHILDREN WITH SAGITTAL CRANIOSYNOSTOSIS AT 3 AND 5 YEARS OF AGE
Presenter: Helen Care M.D. (3 min)
Authors: Helen Care M.D., Jo Horton, Maria Knapp, Natasha Rooney, Louise Dalton, David Johnson
Institution: Oxford Craniofacial Unit, Oxford University Hospitals NHS Foundation Trust, Oxford UK

28
INITIAL EXPERIENCE OF A MODIFIED MELBOURNE TECHNIQUE FOR SCAPHOCEPHALY CORRECTION AT GREAT ORMOND STREET
Presenter: Julia Sharma M.D. (3 min)
Authors: Greg James, Julia Sharma M.D., Alessandro Borghi, Juling Ong, David J Dunaway, N u Owase, Jeelani, Justine L O Hara, Greg James
Institution: Great Ormond Street Hospital

3:49 pm  Discussion (10 min)
### 03:00 – 04:00 pm
**ROOM B**

<table>
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<tr>
<th>Time</th>
<th>Lectern</th>
<th>Presentation Title</th>
<th>Presenter(s)</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
</table>
| 3:00 pm| Lectern 2| **CONCURRENT SESSION 2**  
Metopic and Sagittal Synostosis  
Moderators: Stephen Dover, M.D., Lisa David, M.D. | 29 Long-term Results in Isolated Metopic Synostosis - A 22-Year Review of 245 Treated Patients | Hamidreza Natghian M.D.  
Marie Song  
Jay Jayamohan  
David Johnson  
Shailendra Magdum  
Steven Wall | Oxford Craniofacial Unit |
| 3:03 pm| Lectern 1| Surgical Outcomes in Trigonocephaly Correction Using Spring Assisted Therapy | Juan Martin Chavanne M.D. (3min) | Juan Martin Chavanne M.D.  
Alfredo Houssa | WCF Bs.As. Craniofacial Center |
| 3:06 pm| Lectern 2| 3D CT Analysis of Late Deformity After Fronto-Orbital Remodelling for Metopic Synostosis | Silvia Schievano M.D. (3 min) | Naiara Rodriguez-Florez  
Arantzazu Florez-Tapia  
Silvia Schievano  
NU Owase Jeelani  
David J Dunaway  
Richard Hayward | UCL GOS Institute of Child Health and Great Ormond Street Hospital for Children |
| 3:09 pm| Lectern 1| The Correction of Orbital Hypotelorism | S Anthony Wolfe M.D. (6 min) | S Anthony Wolfe M.D. | Division of Plastic Surgery Miami Children’s Health System |
| 3:15 pm| Lectern 2| The Metopic Synostosis Correction with Distraction | Damian Palafox, M.D. (6min) | Damian Palafox, M.D.  
Pablo Arrieta-Joffe  
Fernando Molina | Fernando Ortiz Monasterio Foundation, Hospital Angeles del Pedregal Mexico City |
| 3:21 pm|          | Discussion (10 min) | | | |
| 3:31 pm| Lectern 1| Quantitative Outcomes of Endoscopic Strip Cranietomy for Metopic Craniosynostosis with Severe Trigonocephaly | Orgest Lajthia (3 min) | Orgest Lajthia  
Chima O. Oluigbo  
John S. Myseros  
Robert F. Keating  
Gary F. Rogers  
Suresh N. Magge | Childrens National Health System |
3:34 pm  35  EARLY SURGICAL CORRECTION OF TRIGONOCEPHALY WITH MINIMALLY INVASIVE METOTIC AND LATERAL FRONTO-ORBITAL OSTECTOMIES: THE ADDITION OF BILATERAL BLEPHAROPLASTY INCISIONS ALLOWS A COMPLETE RELEASE AND ADVANCEMENT OF THE FRONTO-ORBITAL BAR
Presenter: Silvio Podda M.D. (3 min)
Authors: Silvio Podda M.D., Francesco Gargano
Institution: St. Josephs Childrens Hospital

3:37 pm  36  SAGITTAL CRANIECTOMY WITH BIPARIETAL MORCELLATION: OUTCOME ANALYSIS OF AGE AT SURGERY AND EXTENDED TECHNIQUES
Presenter: Brooke French, M.D. (6 min)
Authors: Brooke French, M.D., C. Corbett Wilkinson, M.D., Brent O’Neill, M.D., David Khechoyan, M.D., Ken Winston, M.D., Aaron Kian, M.D.
Institution: University of Colorado School of Medicine Division of Plastic and Reconstructive Surgery

3:43 pm  37  THE MICHIGAN ŒGULLWING APPROACH TO TOTAL CRANIAL VAULT REMODELING FOR SAGITTAL SYNOSTOSIS: LONG TERM OUTCOMES
Presenter: Steven Buchman M.D. (6 min)
Authors: Steven Buchman M.D. Fan Liang, Molly McNeely, Riaz Nabi, Ali Trachtenberg, Christian Vercler
Institution: University of Michigan

3:49 pm  38  OUTCOMES OF EARLY EXTENDED MIDLINE STRIP CRANIECTOMY FOR SAGITTAL SYNOSTOSIS
Presenter: Parks CJ, M.D. (3 min)
Authors: Ellenbogen JR, England JL, Turnock C, Parks CJ, M.D.
Institution: Alder Hey Childrens NHS Foundation Trust

3:52 pm  Discussion (8 min)

04:00 – 04:30 pm  Coffee Break: Visit to the Exhibit and E-Posters Presentations
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<tr>
<th>Time</th>
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<th>Presenter</th>
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<th>Institution</th>
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<tbody>
<tr>
<td>4:30 pm</td>
<td>Lectern 1</td>
<td>Syndromic, Rare Craniosynostosis and Hypertelorism</td>
<td>Xiongzheng Mu, M.D., Dov Charles Goldenberg, M.D.</td>
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<tr>
<td>4:30 pm</td>
<td>Lectern 1</td>
<td>MULTIPLE SUTURE SYNOSTOSIS ASSOCIATED WITH CONGENITAL MYOTONIC DYSTROPHY: A CASE REPORT</td>
<td>Ikkei Tamada M.D. (3 min)</td>
<td>Ikkei Tamada M.D., Hiroshi Yoshihashi, Satoshi Ihara</td>
<td>Tokyo Metropolitan Childrens Medical Center</td>
</tr>
<tr>
<td>4:33 pm</td>
<td>Lectern 2</td>
<td>DIPYRIDAMOLE-LOADED 3D-PRINTED BIOACTIVE CERAMIC SCAFFOLDS PROMOTE BONE REGENERATION AND PRESERVE CRANIAL SUTURE PATENCY IN A SKELETALLY-IMMATUERE RABBIT CALVARIAL DEFECT MODEL</td>
<td>Lukasz Witek, MD</td>
<td>Jonathan M. Bekisz, BA, Roberto L. Flores, MD, Lukasz Witek, MSci, PhD, Christopher D. Lopez, BA, Andrea Torroni, MD, Paulo G. Coelho, DDS, PhD</td>
<td>New York University School of Medicine</td>
</tr>
<tr>
<td>4:36 pm</td>
<td>Lectern 1</td>
<td>SURGERY OF AURICULOTEMPORAL NEUROFIBROMATOSIS IN YOUNG PATIENTS</td>
<td>Mckay Mckinnon M.D. (3 min)</td>
<td>Mckay Mckinnon M.D., Nguyen Hong Ha, M.D., Nguyen Tuan, M.D.</td>
<td>LurieChildrens Hospital, Presence St. Joseph Hospital</td>
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<tr>
<td>4:39 pm</td>
<td>Lectern 2</td>
<td>NON-SYNDROMIC COMPLEX CRANIOSYNOSTOSIS IN FINLAND 1987-2010</td>
<td>Pia Vuola M.D. (3 min)</td>
<td>Pia Vuola M.D., Arja Heliovaara, Annukka Ritvanen, Virve Koljonen, Junnu Leikola</td>
<td>Helsinki University Hospital, Craniofacial Centre, Finland</td>
</tr>
<tr>
<td>4:42 pm</td>
<td>Lectern 1</td>
<td>LARGE SERIES OF CRANIAL VAULT REMODELING IN PATIENTS WITH SHUNT-INDUCED CRANIOSYNOSTOSIS: OUTCOMES &amp; TREATMENT ALGORITHM</td>
<td>Michael Golinko M.D. (3 min)</td>
<td>Michael Golinko M.D., Danielle Atwood, PhD, Eylem Ocal M.D.</td>
<td>Arkansas Children's Hospital</td>
</tr>
<tr>
<td>4:45 pm</td>
<td>Lectern 2</td>
<td>A TWENTY-YEAR RETROSPECTIVE ON LONG-TERM CRANIOSYNOSTOSIS OUTCOMES AT THE UNIVERSITY OF MICHIGAN</td>
<td>Fan Liang, M.D. (3 min)</td>
<td>Fan Liang, M.D., Fan Liang, Peter Beck, Meike Stoldts, Eboni Saywer, Christian Vercler, Steven Buchman</td>
<td>University of Michigan</td>
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<td>Time</td>
<td>Lectern</td>
<td>Session Title</td>
<td>Presenter</td>
<td>Authors</td>
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<td>4:48 pm</td>
<td>45</td>
<td>SYSTEMATIC CLASSIFICATION OF THE COMPLICATION PANORAMA IN 1023 CONSECUTIVE CRANIOFACIAL OPERATIONS</td>
<td>Bhatti-Softeland Madiha, M.D.</td>
<td>Madiha Softeland, Bhatti-Softeland Madiha, M.D., Paganini Anna, MSc, Maltese Giovanni, M.D, PhD, Tarnow Peter, M.D., PhD, Kolby Lars, M.D., PhD</td>
<td>Madiha Softeland</td>
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<tr>
<td>4:52 pm</td>
<td></td>
<td>Discussion</td>
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<tr>
<td>5:02 pm</td>
<td>46</td>
<td>ARRHINIA, CONCEPTS AND TREATMENT</td>
<td>Rolando Prada, M.D.</td>
<td>Rolando Prada</td>
<td>Hospital Infantil Universitario de San José</td>
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<tr>
<td>5:08 pm</td>
<td>47</td>
<td>VARIANT OF FRONTOORBITAL ADVANCEMENT BEFORE HYPERTelorISM CORRECTION</td>
<td>J. Britto M.D.</td>
<td>Eric Arnaud, D. Benderbous, J. Britto, G. Paternoster, S. James, E. Vergnaud, M. Zerah</td>
<td>Hospital Necker craniofacial unit</td>
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<tr>
<td>5:11 pm</td>
<td>48</td>
<td>DIGITAL MEDICINE IN THE CORRECTION OF HYPERTelorISM</td>
<td>Zheyuan Yu M.D.</td>
<td>Zheyuan Yu M.D, Min Wei, Jie Yuan, Liang Xu, Xiongzheng Mu</td>
<td>Dept. of PRS, Shanghai Ninth People Hospital</td>
</tr>
<tr>
<td>5:14 pm</td>
<td>49</td>
<td>PARTICULATE BONE GRAFT FOR RECONSTRUCTION OF THE NASAL DORSUM AFTER ORBITAL BOX OSTEOTOMIES</td>
<td>Anna Carlson, M.D.</td>
<td>Anna Carlson, M.D., Andre Marshall, M.D., Jeffrey Marcus, M.D.</td>
<td>Duke University Hospital Division of Plastic Surgery</td>
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<tr>
<td>5:17 pm</td>
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<td>Discussion</td>
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<tr>
<td>5:27 pm</td>
<td>50</td>
<td>A 22-YEAR REVIEW OF THE USE OF STAINLESS WIRES IN CRANIOsYNOSTOSIS SURGERY - A SINGLE CENTRE STUDY</td>
<td>Hamidreza Natghian M.D.</td>
<td>Hamidreza Natghian M.D., Marie Song, Steven Wall, David Johnson</td>
<td>Oxford Craniofacial Unit</td>
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5:33 pm
Lectern 1
51
IMPROVED PERIOPERATIVE OUTCOMES ASSOCIATED WITH CRANIOFACIAL TEAM
ANESTHESIOLOGIST
Presenter: Albert K. Oh, M.D. (6 min)
Authors: Albert K. Oh, Srijaya K. Reddy, Sophie R. Pestieau, Erin M. Rada, Robert F. Keating,
Gary F. Rogers
Institution: Children’s National Health System

5:39 pm
Lectern 2
52
MINIMIZING ALLOGENIC BLOOD TRANSFUSIONS IN CHILDREN UNDERGOING PRIMARY
CRANIAL VAULT REMODELING FOR CRANIOSYNOSTOSIS: AKRON CHILDREN’S
HOSPITAL PROTOCOL
Presenter: Bin Song M.D. (3 min)
Authors: Bin Song M.D., Ananth Murthy, Niyant Patel
Institution: Akron Children’s Hospital

5:42 pm
Lectern 1
53
RISK FACTORS FOR DELAYED REFERRAL TO A CRANIOFACIAL SPECIALIST FOR
TREATMENT OF CRANIOSYNOSTOSIS
Presenter: Brad Gandolfi, M.D. (3 min)
Authors: Anna Carlson, M.D., Brad Gandolfi, M.D., Danielle Sobol, M.D., Alfredo Farjat, PhD,
Alexander Allori, M.D., MPH, Jeffrey Marcus, MD, Anna R Carlsoa, MD
Institution: Duke University Hospital Division of Plastic Surgery

5:45 pm
Lectern 2
54
SQUAMOSAL CRANIOSYNOSTOSIS: EXPECTED PHENOTYPE AND MANAGEMENT
Presenter: Alexander Y. Lin, MD, FACS (3 min)
Authors: Alexander Y. Lin, MD, FACS, Kashyap Tadisina
Institution: Saint Louis University School of Medicine

5:48 pm
Lectern 1
55
SIN? SALVAGE? OR FINAL SOLUTION? ALLOPLASTIC RECONSTRUCTION IN
HEMIFACIAL MICROsomia (hFM)
Presenter: John Polley, M.D. (3 min)
Authors: John Polley, M.D., John Polley, M.D., John Girotto, M.D., Spiros Lazaros, M.D.,
Neophytos Demetriades, DDS M.D., Joseph Taylor, M.D., Nicholas Adams, M.D.
Institution: Helen DeVos Childrens Hospital, Grand Rapids, Michigan USA

5:51 pm
Discussion (9 min)
<table>
<thead>
<tr>
<th>Time</th>
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<th>Presenter(s)</th>
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<tbody>
<tr>
<td>4:30 pm</td>
<td>Lectern 1</td>
<td>A COMPARATIVE ANALYSIS OF LONG-TERM OUTCOMES FOR TREATMENT OF</td>
<td>Kathryn V. Isaac M.D. (3 min)</td>
<td>Kathryn V. Isaac M.D., Sarah MacKinnon, John G. Meara, Mark R. Proctor, Linda R. Dagi</td>
<td>Boston Children's Hospital</td>
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<tr>
<td></td>
<td></td>
<td>ISOLATED UNILATERAL CORONAL SYNOSTOSIS WITH ENDOSCOPIC SUTURECTOMY</td>
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<td>OR FRONTO-ORBITAL ADVANCEMENT</td>
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<tr>
<td>4:33 pm</td>
<td>Lectern 2</td>
<td>NON-SYNDROMIC UNICORONAL SYNOSTOSIS: DOES THE FACE UNTWIST?</td>
<td>Jonathan A. Burge, M.D. (3 min)</td>
<td>Mark J. Edmondson, Sebastian M. A. Brooke, Jonathan A. Burge, M.D.</td>
<td>The Royal Childrens Hospital, Melbourne</td>
</tr>
<tr>
<td>4:36 pm</td>
<td>Lectern 1</td>
<td>NON-INVASIVE ICP MEASUREMENT IN CRANIOFACIAL DISORDERS</td>
<td>T Forcht Dagi (6 min)</td>
<td>T Forcht Dagi, Linda Dagi, Javier Fandino, Robert Keating, Joe Sam Robinson, Arminas Ragauskas</td>
<td>Queens University Belfast and Vittamed Neurosciences Corp</td>
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<tr>
<td>4:42 pm</td>
<td>Lectern 2</td>
<td>A VOLUMETRIC AND CRANIOMETRIC ANALYSIS OF CRANIAL BASE IN UNICORONAL</td>
<td>Hoppe Ian, M.D. (3 min)</td>
<td>Hoppe Ian, M.D, Daniel Mazzaferro, Ari Wes, Sanjay Naran, Scott Bartlett, Jesse Taylor</td>
<td>The Childrens Hospital of Philadelphia</td>
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<td>CRANIOSYNOSTOSIS</td>
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<tr>
<td>4:45 pm</td>
<td>Lectern 1</td>
<td>FMRI REVEALS ALTERED BRAIN ACTIVATION IN SPATIAL WORKING MEMORY IN</td>
<td>Jenny F. Yang, M.D. (3 min)</td>
<td>Jenny F. Yang, M.D, Eric D.K. Brooks, MD, Cheryl LaCadie, MS, Alex Sun, BS, Derek M. Stein bacher,</td>
<td>Yale Plastic and Reconstructive Surgery</td>
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<td></td>
<td></td>
<td>UNICORONAL SYNOSTOSIS</td>
<td></td>
<td>M.D., DMD, FACS, John A. Persing, M.D.</td>
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<tr>
<td>4:48 pm</td>
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<td>Discussion (10 min)</td>
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</table>
61
ALTHOUGH REFERRALS FOR NON-SYNDROMIC FRONTAL PLAGIOCEPHALY HAVE BEEN INCREASED DURING THE PAST SEVERAL YEARS, SUCCESSFUL SURGICAL REPAIR OF UNICORONAL SYNOSTOSIS (UCS) REMAINS A CHALLENGE FOR CRANIOFACIAL SURGEONS
Presenter: Amir Daryani M.D. (3 min)
Authors: Amir Daryani M.D.
Institution: sbmu

62
SPEECH AND LANGUAGE DEVELOPMENT IN CHILDREN WITH SYNDROMIC AND NON-SYNDROMIC UNICORONAL SYNOSTOSIS: A LONGITUDINAL RETROSPECTIVE REVIEW
Presenter: Sarah Kilcoyne M.D. (3 min)
Authors: Sarah Kilcoyne M.D., Carrie Luscombe, Andrew Wilkie, Steven Wall, David Johnson
Institution: Oxford Craniofacial Unit

63
3D PRINTING GUIDED SURGERY IN TREATMENT OF UNICORONAL CRANIOSYNOSTOSIS
Presenter: Tarek Elbanoby M.D (3 min)
Authors: Tarek Elbanoby M.D., Amr Mohammed Elbatawy, Gaber M. Aly, Usama A. Abdelfattah, Mohab A. Sharafuddin
Institution: Al Azhar University, Cairo, Egypt

64
INTERNAL DISTRACTION OSTEONEGENESIS WITH PIEZOSURGERY OBLIQUE OSTEOTOMY OF SUPRAORBITAL MARGIN OF FRONTAL BONE FOR THE TREATMENT OF UNILATERAL CORONAL SYNOSTOSIS
Presenter: Shen Weimin, M.D. (6 Min)
Authors: Cui Jie, Shen Weimin M.D., Jianbing Chen, Ji Yi, Liangliang Kong
Institution: Department of Plastic Surgery, Children’s Hospital of Nanjing Medical University

Discussion (10 min)

65
INTRACRANIAL VOLUME MEASUREMENT: A SYSTEMATIC REVIEW OF GLOBALLY USED TECHNIQUES AND A DIRECT COMPARISON OF MANUAL, SEMI-AUTOMATIC AND FULLY AUTOMATIC TECHNIQUES
Presenter: Will Breakey, M.D. (6 Min)
Authors: Will Breakey, P.G.M Knoops, A. Borghi, D.J Dunaway, S. Schievano
Institution: Great Ormond Street and UCL Institute of Child Health

66
CHIARI MALFORMATION MANAGEMENT IN BILAMBDOID AND SAGITTAL SYNOSTOSIS
Presenter: Giovanna Paternoster, M.D. (6 Min)
Authors: Giovanna Paternoster, Syril James, Dominique Renier, Federico di Rocco, Michel Zerah, Eric Arnaud
Institution: Hospital Necker CF Unit
<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Presentation Title</th>
<th>Presenter</th>
<th>Authors</th>
<th>Institution</th>
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<tr>
<td>5:35 pm</td>
<td>Lectern 2</td>
<td>SYNDROMIC CRANIOSYNOSTOSIS AND LATE APPEARING SYRINGOMYELIA</td>
<td>Syril James, M.D.</td>
<td>Syril James, Giovanna Paternoster, Stéphanie Puget, Michel Zerah, Eric Arnaud</td>
<td>Hospital Necker Craniofacial Unit</td>
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<tr>
<td>5:38 pm</td>
<td>Lectern 1</td>
<td>AUTOMATED OBJECTIVE VISUAL OUTCOMES ANALYSIS</td>
<td>Elizabeth Zellner, M.D.</td>
<td>Darren Smith, John Phillips, David Khechoyan, Jessica Ching, Elizabeth Zellner</td>
<td>The Hospital for Sick Children</td>
</tr>
<tr>
<td>5:41 pm</td>
<td>Lectern 2</td>
<td>SURGERY NAVIGATION IN TREATING CONGENITAL MIDFACIAL DYSPLASIA OF FACIAL CLEFT PATIENTS</td>
<td>Jie Yuan, M.D.</td>
<td>Jie Yuan, Min Wei, Dong Li, Liang Xu, Zheyuan Yu</td>
<td>Department of plastic and reconstructive surgery, Shanghai 9th people hospital</td>
</tr>
<tr>
<td>5:44 pm</td>
<td>Lectern 1</td>
<td>AN OUTCOME REVIEW OF 225 PATIENTS WITH METOPIC SYNOSTOSIS TREATED AT BIRMINGHAM CHILDREN’S HOSPITAL OVER 15 YEARS</td>
<td>Neil Opie, M.D.</td>
<td>Neil Opie, MS Dover, H Nishikawa, M Evans, N White, D Rodrigues, M Sharp</td>
<td>Birmingham Children Hospital</td>
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<td>5:47 pm</td>
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<td>Discussion</td>
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<td>07:00 – 09:00 pm</td>
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<td>Opening Reception</td>
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<td>The Sunset Terrace at the Grand Fiesta Americana Coral Beach</td>
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<td>Time</td>
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<td>Title</td>
<td>Presenter(s)</td>
<td>Authors</td>
<td>Institution</td>
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<tr>
<td>08:00</td>
<td>71</td>
<td>CORRECTION OF RESIDUAL FACIAL DEFORMITY IN SYNDROMIC CRANIOSYNOSTOSIS</td>
<td>David Dunaway M.D.</td>
<td>David Dunaway M.D., Daljit Gill, Owase Jeelani, Jonathan Britto, Robert Evans, Timothy Lloyd</td>
<td>Royal Children's Hospital of Melbourne</td>
</tr>
<tr>
<td>08:12</td>
<td>73</td>
<td>COMPARATIVE COST ANALYSIS OF TEMPORAL HOLLOWING CORRECTION FOLLOWING NEUROSURGICAL PROCEDURES</td>
<td>Gabriel F. Santiago, M.D.</td>
<td>Gabriel F. Santiago, M.D., Anthony Asemota, M.D., M.P.H., Shuting Zhong, M.D., Chad R. Gordon, D.O.</td>
<td>Johns Hopkins University Department of Plastic and Reconstructive Surgery</td>
</tr>
<tr>
<td>08:15</td>
<td>74</td>
<td>INCIDENCE OF SECONDARY MIDFACE ADVANCEMENT AT THE TIME OF SKELETAL MATURITY IN PATIENTS WITH A HISTORY OF EARLY LE FORT III DISTRACTION OSTEOGENESIS</td>
<td>Gerald J. Cho M.D.</td>
<td>Gerald J. Cho M.D., Zachary M. Borab, Travis L. Gibson, Pradip R. Shetye, Barry H. Grayson, Roberto L. Flores, Joseph G. McCarthy</td>
<td>NYU Langone Medical Center</td>
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<tr>
<td>08:18</td>
<td>75</td>
<td>CRANIOSYNOSTOSIS REPAIR: FACTORS EFFECTING COMPLICATIONS, READMISSION, AND REOPERATION</td>
<td>Renata Maricevich, M.D.</td>
<td>Kevin Jubbal, Nikhil Agrawal, Larry Hollier, Jr, Dra. Renata Maricevich, M.D.</td>
<td>Loma Linda University</td>
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<td>08:21</td>
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<td>Discussion (10 min)</td>
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76
ORTHODONTICS AND ORTHOGNATHIC SURGERY IN PATIENTS WITH SYNDROMIC CRANIOSYNOSTOSIS
Presenter: Mariana Sabás M.D. (3 min)
Authors: Mariana Sabás M.D., Emmanuela Nadal-Lopez, M.D.
Institution: Sociedad Argentina de Ortodoncia. Buenos Aires. Argentina

8:34 am
Lectern 1
77
SKULL GROWTH IN UNOPERATED SYNDROMIX
Presenter: P.G.M Knoops, M.D. (3 min)
Authors: Will Breakey, P.G.M Knoops, G. James, S. Schievano, D. Dunaway, N.u.O Jeelani M.D.
Institution: Great Ormond Street and UCL Institute of Child Health

8:37 am
Lectern 2
78
ANALYSIS OF SURGICAL CORRECTION OF CRANIOSYNOSTOSIS: FOA VS PVDO
Presenter: Xiongzheng Mu M.D. (3 min)
Authors: Xiongzheng Mu M.D., Yingzhi Wu, Junyin Yang
Institution: Huashan Hospital, Fudan University

8:40 am
Lectern 1
79
PATTERNS OF INTRACRANIAL PRESSURE IN CHILDREN WITH CRANIOSYNOSTOSIS UTILIZING OPTICAL COHERENCE TOMOGRAPHY
Presenter: Jordan Swanson M.D. (3 min)
Authors: Jordan Swanson M.D., Wen Xu, Grant Liu, Philip Storm, Scott Bartlett, Jesse Taylor
Institution: University of Pennsylvania

8:43 am
Lectern 2
80
THE LONG-TERM MORPHOMETRIC OUTCOMES IN PATIENTS WITH UNTREATED CRANIOSYNOSTOSIS
Presenter: John Phillips M.D. (6 min)
Authors: John Phillips M.D., Christopher Forrest, Elizabeth Zellner, David Khechoyan, Darren Smith
Institution: The Hospital for Sick Children

8:49 am
Discussion (11 min)
<table>
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<tr>
<th>Time</th>
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<th>Institution</th>
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<tr>
<td>8:00 am</td>
<td>Lectern 1</td>
<td>81 ALLOPLASTIC CRANIOPLASTY WITH POROUS POLYETHYLENE IN CHILDREN: OUT COMES AND CRANIAL GROWTH</td>
<td>Joseph E. Losee, MD</td>
<td>Liliana Camison, Lucas A. Dvoracek, Ilona Brueckmann M.D., Jesse A. Goldstein, Mandeep S. Tamber, Joseph E. Losee</td>
<td>University of Pittsburgh Medical Center</td>
</tr>
<tr>
<td>8:06 am</td>
<td>Lectern 1</td>
<td>83 RECONSTRUCTION OF SECONDARY SKULL DEFECTS WITH SPLIT CALVARIAL BONE GRAFTS IN A HIGH RISK POPULATION</td>
<td>Russell Frautschi M.D.</td>
<td>Russell Frautschi M.D., Brianna Halasa, Grzegorz Kwiecien, Antonio Rampazzo, James E. Zins, Bahar Bassiri Gharb</td>
<td>Cleveland Clinic</td>
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<tr>
<td>8:09 am</td>
<td>Lectern 2</td>
<td>84 USE OF TITANIUM MESH FOR CRANIOPLASTY -REPORT ON 100 CASES</td>
<td>Anil Madaree, M.D.</td>
<td>Anil Madaree, M.D., T Pillay</td>
<td>Nelson R Mandela Schoolof Medicine, University of Kwazulu Natal, Durban, South Africa</td>
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<td>8:15 am</td>
<td>Lectern 1</td>
<td>85 SYNDROME OF THE TREPHINED: FUNCTIONAL IMPROVEMENT AFTER RECONSTRUCTION OF LARGE CRANIAL VAULT DEFECTS</td>
<td>James P Bradley, M.D.</td>
<td>James P Bradley, M.D., Matthew Hagan, M.D., Joe Tarr, PhD, Justine Lee,M.D., PhD</td>
<td>Temple University</td>
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<td>8:21 am</td>
<td>Lectern 2</td>
<td>86 LONG-TERM OUTCOMES OF DEMINERALIZED BONE MATRIX AND RESORBABLE MESH BILAMINATE CRANIOPLASTY IN LARGE PEDIATRIC CALVARIAL DEFECTS IN THE SETTING OF SCARRED DURA</td>
<td>Jonathan Y Lee, M.D.</td>
<td>Jonathan Y Lee, Lucas Dvoracek, Joseph E Losee, Jesse A Goldstein</td>
<td>University of Pittsburgh Medical Center</td>
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8:27 am  Discussion (8 min)

8:35 am  
Lectern 1  

87  
CEPHALOMETRIC PREDICTORS OF CLINICAL SEVERITY IN TREACHER COLLINS SYNDROME  
Presenter: Roberto L. Flores, MD (6 min)  
Authors: Natalie M. Plana, Elcin Esenlik, DDS, PhD, Natalie M. Plana, BA, Barry H. Grayson, DDS, Joseph G. McCarthy, M.D., Roberto L. Flores, MD  
Institution: Hansjorg Wyss Department of Plastic Surgery

8:41 am  
Lectern 2  

88  
CRANIAL VAULT RECONSTRUCTION FOLLOWING DECOMPRESSIVE CRANIECTOMY; OPTIMIZING FUNCTIONAL AND AESTHETIC OUTCOMES USING A MULTIDISCIPLINARY APPROACH  
Presenter: Micaela Uberti M.D. (6 min)  
Authors: Micaela Uberti, Glass, GE, Blythe, J, Homes, SB, Barber, J  
Institution: Royal London Hospital

8:47 am  
Lectern 1  

89  
PURPOSE: THE PURPOSE OF THIS STUDY WAS TO DETERMINE THE HOSPITAL COSTS ASSOCIATED WITH DIFFERENT TYPES OF CRANIOPLASTY  
Presenter: Oleh Antonyshyn M.D. (6 min)  
Authors: Oleh Antonyshyn M.D., Adam Binhammer, Paul Binhammer  
Institution: Sunnybrook Health Sciences Centre

8:53 am  Discussion (7 min)
CONCURRENT SESSION 5
Hemifacial Microsomia
Moderators: Roberto Flores, M.D., Hector Malagon, M.D.

9:00 – 9:30 am

90
A VOLUMETRIC ANALYSIS OF THE COSTOCHONDRAL GRAFT IN HEMIFACIAL MICROsomia
Presenter: Scott Bartlett, M.D. (6 min)
Authors: Scott Bartlett M.D., Netanja ter Maaten, Daniel Mazzaferro, Ari Wes, Andrew Bauder, Sanjay Naran, Jesse Taylor
Institution: Childrens Hospital of Philadelphia

9:06 am

91
FEASIBILITY OF MAGNETIC ACTIVATION OF A MAXilloFACIAL DistrACTION OSSEOgenesis, DESIGN OF A NEW DEVICE
Presenter: Boisson Jean M.D. 6 min)
Authors: Boisson Jean, Strozyk Herve, Diner Patrick, Debemales Alexandre, Picard Arnaud, Kadlub Natacha
Institution: ENSTA-ParisTech

9:12 am

92
DISTRACTION OSSEOgenesis IN MICROVASCULAR FREE FIBULA FlAP FOR HEMIFACIAL MICROsomia PATIENTS
Presenter: Eric Santamaria, M.D. (6 min)
Authors: Eric Santamaria, M.D., Adriana Guerrero, Maria Soledad Rubio, Damian Palafox, Maria del Carmen Pamplona
Institution: Hospital Dr. Manuel Gea Gonzalez

9:18 am

93
MODIFIED SIMULTANEOUS BIMAXILLARY DistrACTION OSSEOgenesis FOR CORRECTION OF FACIAL ASYMMETRY USING SEMI-BURIED MANDIBULAR DistrACTORS. IN CHILDREN AND ADULTS, WITH LON-TERM FOLLOW UP
Presenter: Ahmed Medra M.D. (3 min)
Authors: Ahmed Medra M.D, Ahmed Mohamed Medra
Institution: Alexandria University, Faculty of Dentistry

9:21 am

94
SPEECH AND LANGUAGE CONCERNS IN CRANIOFACIAL MICROsomia
Presenter: Nicole Kurnik, M.D. (3 min)
Authors: Davinder Singh, M.D., Nicole Kurnik, M.D., Kelly Cordero, PHD, CCC-SLP
Institution: Department of Plastic Surgery, Phoenix Childrens Hospital, Barrow Cleft and Craniofacial Center

9:24 am

95
CRANIAL BASE MEASUREMENT IN HEMIFACIAL MICROsomia
Presenter: Jie Yuan, M.D. (3 min)
Authors: Xianxian Yang M.D, Xianxian Yang, Xiaojun Chen, Yan Zhang, Gang Chai
Institution: Department of Plastic and Reconstructive Surgery, Shanghai Ninth Peoples Hospital
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<td>9:27 am</td>
<td>Discussion (10 min)</td>
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**ROOM B**

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<tr>
<td>9:00 am</td>
<td>CONCURRENT SESSION 5 Orthognathic Surgery</td>
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<tr>
<td>9:00 am</td>
<td>3D EVALUATION OF MAXILLA AND FACE AFTER 2 AND 3 SEGMENTS SURGICALLY ASSISTED MAXILLARY EXPANSION</td>
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<tr>
<td>9:03 am</td>
<td>CONFORMITY OF THE ACTUAL TO PLANNED RESULT IN ORTHOGNATHIC SURGERY</td>
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<td>9:06 am</td>
<td>VINTAGE ORTHOGNATIC SURGERY: NO FERWELL FOR MAJOR OSTEOTOMIES</td>
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<tr>
<td>9:12 am</td>
<td>AN INTEGRATED SURGICAL PROTOCOL FOR ADULT PATIENTS WITH HEMIFACIAL MICROSOMIA: METHODS AND OUTCOME</td>
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<tr>
<td>9:18 am</td>
<td>TRACHEAL SLEEVE CARTILAGE -- VARIATIONS IN PRESENTATION AND CHALLENGES IN MANAGEMENT</td>
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<tr>
<td>9:21 am</td>
<td>Discussion (9 min)</td>
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<tr>
<td>09:30 – 10:00 am</td>
<td>Coffee Break: Visit to the Exhibit and E-Posters Presentations</td>
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<td>Time</td>
<td>Event</td>
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<tr>
<td>10:00 – 10:30 am</td>
<td><strong>General Session 2</strong>&lt;br&gt;<strong>Fernando Ortiz Monasterio Lecture</strong></td>
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<td>10:00- 10:10 am</td>
<td><strong>Introduction:</strong>&lt;br&gt;Pablo Ortiz Monasterio Prieto, Photographer</td>
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<tr>
<td>10:10 – 10:35 am</td>
<td><strong>Appearance in History, Art, Plastic Surgery, and Beyond</strong>&lt;br&gt;Linton A. Whitaker, M.D.</td>
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<tr>
<td>10:35 – 10:50 am</td>
<td><strong>Time to prepare for Chichen Itza Tour</strong></td>
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<td>10:50 – 11:00 am</td>
<td><strong>Meet at the Lobby of the Hotel Fiesta Americana Coral Beach</strong></td>
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<td>11:00 am</td>
<td><strong>Buses depart to Chichen Itza</strong></td>
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ROOM A

07:00 – 08:30 am  Business Meeting

08:30 – 09:30 am  CONCURRENT SESSION 6
Posterior Skull Expansion
Moderators: Irene Mathijssen, M.D., Juan Carlos Rodriguez, M.D.

8:30 am  Lectern 1
101
A NEW TECHNIQUE FOR POSTERIOR DISTRACTION IN CRANIOSYNOSTOSIS:
THE DOUBLE DOOR TECHNIQUE
Presenter: Yoshiaki Sakamoto M.D. (3 min)
Authors: Yoshiaki Sakamoto M.D., Tomoru Miwa, Kazunari Yoshida, Kazuo Kishi
Institution: Keio University School of Medicine

8:33 am  Lectern 2
102
ANALYSIS OF 20 CONSECUTIVE CASES OF POSTERIOR CRANIAL VAULT DISTRACTION
Presenter: Yuzo Komuro M.D. (3 min)
Authors: Yuzo Komuro M.D., Daiki Senda, Kazuaki Shimoji, Masakazu Miyajima, Hajime Arai
Institution: Department of Plastic Surgery Teikyo University

8:36 am  Lectern 1
103
EXPERIENCE OF POSTERIOR DISTRACTION IN 117 CASES: ANALYSIS OF THE
RESULTS AND PROSPECTS FOR THE FUTURE OF THE METHOD
Presenter: Leonid Satanin M.D. (3 min)
Authors: Leonid Satanin M.D., Niina Salokorpi, Ivan Teterin, Alexander Ivanov,
Vitaly Roginsky, Willy Serlo
Institution: Moscow Burdenko Neurosurgery Institute, Russia

8:39 am  Lectern 2
104
THE OXFORD EXPERIENCE OF POSTERIOR CRANIAL VAULT DISTRACTION; EVIDENCE
FOR A REDUCED CONSOLIDATION PERIOD
Presenter: David Johnson M.D. (6 min)
Authors: David Johnson M.D., Greg Thomas, Shailendra Magdum, Jay Jayamohan, Jo Byren,
Steven Wall
Institution: Oxford Craniofacial Unit

8:45 am  Lectern 1
105
POSTERIOR VAULT DISTRACTION IN MULTI-SUTURE SYNOSTOSIS: MORPHOMETRIC
ANALYSIS AND OUTCOMES
Presenter: Christopher R. Forrest, MD (6 min)
Authors: Christopher R. Forrest, MD, Jessica A. Ching, MD, April Clausen, P. Eng
Institution: The Hospital for Sick Children, Toronto

8:51 am
Discussion (10 min)
9:01 am  
**Lectern 2**  
106  
**CHANGES IN INTRACRANIAL VOLUME WITH POSTERIOR VAULT DISTRACTION FRONTAL ORBITAL ADVANCEMENT**  
Presenter: Daiki Senda M.D. (3 min)  
Authors: Daiki Senda M.D., Azusa Shimizu, Doruk Orgun, Takaoki Kimura, Kazuaki Shimoji, Masakazu Miyajima, Hajime Arai, Yuzo Komuro  
Institution: Department of Plastic and Reconstructive surgery, Juntendo University

9:04 am  
**Lectern 1**  
107  
**FORCE MEASUREMENTS DURING POSTERIOR CALVARIAL VAULT OSTEODISTRACTION: A NOVEL MEASUREMENT METHOD**  
Presenter: J. Leikola M.D. (3 min)  
Authors: Mikko Savolainen, Antti Ritvanen, Daniel Nowinski, Daniel Saiepour, Mervi Paulasto-Kröckel, J. Hukki, E. Tukiainen, J. Leikola M.D.  
Institution: Department of Plastic Surgery, Helsinki University Hospital

9:07 am  
**Lectern 2**  
108  
**A CRANIOMETRIC ANALYSIS OF POSTERIOR VAULT DISTRACTION AND ITS EFFECTS ON FRONTAL CRANIAL MORPHOLOGY**  
Presenter: Scott Bartlett M.D. (3 min)  
Authors: Netanja ter Maaten, Dan Mazzaferro, Ari Wes, Sanjay Naran, Scott Bartlett, Jesse Taylor  
Institution: Children's Hospital of Philadelphia

9:10 am  
**Lectern 1**  
109  
**POSTERIOR VAULT DISTRACTION OSTEOGENESIS AND NEUROLOGICAL OUTCOMES IN SYNDROMIC CRANIOSYNOSTOSIS**  
Presenter: James Thomas Paliga M.D. (6 min)  
Authors: James Thomas Paliga M.D., James SunChildrens, Ari M. Wes, Sanjay Naran, Scott P Bartlett, Jesse A Taylor  
Institution: Children's Hospital of Philadelphia

9:16 am  
**Lectern 2**  
110  
**A 2 CENTRE EXPERIENCE OF 100 CONSECUTIVE POSTERIOR VAULT DISTRACTIONS: PROCEDURES, OUTCOMES AND COMPLICATIONS**  
Presenter: Michael Stephen Dover M.D. (6 min)  
Authors: Michael Stephen Dover M.D., David Johnson Steven Wall, Nicholas White Martin Evans, Greg Thomas, Desiderio Rodrigues, Sheilendra Magdum, Guirish Solanki, Jay Jayamohan, Hiroshi Nishikawa  
Institution: Birmingham Children's Hospital, UK

9:22 am  
Discussion (8 min)
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<th>Title</th>
<th>Presenter</th>
<th>Authors</th>
<th>Institution</th>
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<tr>
<td>08:30 am</td>
<td>111</td>
<td>NEONATAL AND INFANT MANDIBULAR DISTRACTION OSTEOGENESIS: CAN WE PREDICT THE OUTCOME</td>
<td>Artur Fahradyan, M.D. (3 min)</td>
<td>Artur Fahradyan, M.D., Brady Colin, M.D., Michaela Tsuha, BS, Mark M. Urata, Jeffrey A. Hammoudeh</td>
<td>Childrens Hospital Los Angeles</td>
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<tr>
<td>08:33 am</td>
<td>112</td>
<td>AN ALGORITHM FOR AIRWAY MANAGEMENT IN PIERRE ROBIN SEQUENCE</td>
<td>Chad A Purnell M.D. (3 min)</td>
<td>Chad A Purnell M.D., Katherine E Hicks, Kathleen R Billings, John M Carter, Bharat Bhushan, Arun K Gosain, Dana M Thompson, Jeffry C Rastatter</td>
<td>Lurie Childrens Hospital of Northwestern Feinberg School of Medicine</td>
</tr>
<tr>
<td>08:36 am</td>
<td>113</td>
<td>INCREASED PEDIATRIC WEIGHT GAIN FOLLOWING MANDIBULAR DISTRACTION OSTEOGENESIS</td>
<td>Cyril S Gary M.D. (3 min)</td>
<td>Cyril S Gary M.D., Sharon Marczewski, Patricia M Vitagliano, Derek M Steinbacher</td>
<td>Yale School of Medicine</td>
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<tr>
<td>08:39 am</td>
<td>114</td>
<td>EXTREME MICROGNATHIA IN SYNDROMIC PATIENTS: SEQUENTIAL MANDIBULAR DISTRACTION DURING GROWTH TO FINAL SKELETAL CORRECTION</td>
<td>Andrew Heggie M.D. (6 min)</td>
<td>Andrew Heggie M.D., Anthony Holmes</td>
<td>Royal Children’s Hospital of Melbourne</td>
</tr>
<tr>
<td>08:45 am</td>
<td>115</td>
<td>PATHOGENESIS OF CLEFT PALATE IN ROBIN SEQUENCE: OBSERVATIONS FROM PRENATAL MRI</td>
<td>Cory M. Resnick, DMD, MD, FACS (6 min)</td>
<td>Cory M. Resnick, DMD, MD, FACS, Tessa D. Kooiman, BS, Carly E. Calabrese, MPH, Judy A. Estroff, MD, Maarten J. Koudstaal, DMD, MD, Bonnie L. Padwa, DMD, MD, FACS</td>
<td>Boston Children’s Hospital</td>
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<tr>
<td>08:51 am</td>
<td>Discussion</td>
<td>(9 min)</td>
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<tr>
<td>Time</td>
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<td>Presenter</td>
<td>Authors</td>
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<td>9:30 am</td>
<td>Lectern 1</td>
<td>NEURAL RESPONSE TO LANGUAGE IN CRANIOSYNOSTOSIS: AN ELECTROPHYSIOLOGIC STUDY</td>
<td>Alexander Sun M.D.</td>
<td>Alexander Sun M.D., Max Rolison, Carolyn Chuang, Derek Steinbacher, John Persing, James McPartland</td>
<td>Yale School of Medicine</td>
</tr>
<tr>
<td>9:36 am</td>
<td>Lectern 2</td>
<td>ELUCIDATION OF GENETIC DISORDERS IN UNCLASSIFIED RARE CRANIOFACIAL HYPEROSTOSES: TWO CASES OF SOMATIC MUTATION Mosaicism</td>
<td>Yoshitaka Kubota M.D.</td>
<td>Yoshitaka Kubota M.D., Yoshihisa Yamaji, Yoshitaro Sasahara, Shinsuke Akita, Nobuyuki Mitsukawa</td>
<td>Chiba University</td>
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<td>9:39 am</td>
<td>Lectern 1</td>
<td>IDENTIFICATION OF SEVERAL NOVEL CRANIOSYNOSTOSIS GENES BY NEXT GENERATION SEQUENCING</td>
<td>Jacqueline A.C. Goos</td>
<td>Jacqueline A.C. Goos, Sigrid M.A. Swagemakers, Ans M.W. van den Ouweland, Marieke F. van Dooren, Andrew O.M. Wilkie, Irene M.J. Mathijssen</td>
<td>Erasmus MC, University Medical Center</td>
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<tr>
<td>9:42 am</td>
<td>Lectern 2</td>
<td>VEGF DOES NOT IMPROVE BMP-2-MEDIATED BONE REGENERATION IN COMPLICATED CALVARIAL DEFECTS IN RABBITS</td>
<td>Liliana Camison M.D.</td>
<td>Liliana Camison M.D., Michael R. Bykowski, Jack Brooker, Phil Campbell, Gregory M. Cooper, Joseph E. Losee</td>
<td>University of Pittsburgh Medical Center</td>
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<tr>
<td>9:45 am</td>
<td>Lectern 1</td>
<td>ELEVATED RETINOID SIGNALING AS THE GENETIC BASIS FOR AN OAVS-LIKE PRESENTATION IN MICE</td>
<td>Timothy C Cox, M.D.</td>
<td>Timothy C Cox, M.D., Esra D Camci</td>
<td>University of Washington</td>
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9:48 am  
Lectern 2  
121  
**DIPYRIDAMOLE ENHANCES BONE REGENERATION IN 3D PRINTED BIOACTIVE CERAMIC SCAFFOLDS**  
Presenter: Christopher D Lopez, BA (3 min)  
Authors: Christopher D Lopez, BA, Lukasz Witek, MSc, PhD, Jonathan M Bekisz, BA, J. Rodrigo Diaz-Siso, MD, Eduardo D. Rodriguez, MD DDS, Paulo G. Coelho, DDS PhD  
Institution: Icahn School of Medicine at Mount Sinai

9:51 am  
Lectern 1  
122  
**MODELLING BONE FORMATION AT THE CRANIAL SUTURES IN WILD TYPE MOUSE**  
Presenter: Mehran Moazen M.D. (6 min)  
Authors: Arsalan, Joseph Libby, Christian Babbs, Erwin Pauws, Michael J. Fagan, Mehran Moazen  
Institution: University College London, UK

9:57 am  
Discussion (9 min)

10:06 am  
Lectern 2  
123  
**CRANIOFACIAL AND LONG BONE ANOMALIES IN STAT3 MUTATIONS**  
Presenter: David Boutboul (3 min)  
Authors: Roman Hossein Khonsari, David Boutboul, Nabil Kaci, Kimberley Ching, John Manis, Laurence Legaeai-Mallet  
Institution: Hôpital Universitaire Necker - Enfants Malades, Paris, France

10:09 am  
Lectern 1  
124  
**ALTERED BRAIN FUNCTIONAL CONNECTIVITY VARIES BY FORM OF CRANIOSYNOSTOSIS**  
Presenter: Alexander Sun M.D. (6 min)  
Authors: Alexander Sun M.D, Jeffrey Eilbott, Carolyn Chuang, Derek Steinbache, Kevin Pelphrey, John Persing  
Institution: Yale School of Medicine

10:15 am  
Lectern 2  
125  
**CONNECTIVE TISSUE GROWTH FACTOR CTGF/CCN2 IS ESSENTIAL FOR SECONDARY PALATOGENESIS**  
Presenter: Joe Tarr, PhD (3 min)  
Authors: James P Bradley, MD, Joe Tarr, PhD, Steve Popoff, MD, PhD, Alex Lambi, MD PhD  
Institution: Temple University

10:18 am  
Lectern 1  
126  
**PEPTIDE AMPHIPHILE NANOFIBERS AMPLIFY EFFECTS OF BMP-2 ON CRANIOFACIAL BONE REPAIR**  
Presenter: Reena Bakshi M.D. (3 min)  
Authors: Reena Bakshi M.D., Akishige Hokugo, Kameron Rezzadeh, Mark McClendon, Samuel Stupp, Reza Jarrahy  
Institution: Regenerative Bioengineering and Repair (REBAR) Laboratory, Division of the Plastic and Reconstructive Surgery, Department of Surgery, David Geffen School of Medicine at UCLA
10:21 am  127
Lectern 2
COMPARISON OF FACIAL PHENOTYPES BETWEEN NON-SYNDROMIC INFILTRATING
LIPOMATOSIS AND CLOVES SYNDROME
Presenter: Reid A Maclellan M.D. (3min)
Authors: Usha Beijnen, Ahmad I Alomari, Arin K Greene, John B Mulliken,
Reid A Maclellan M.D.
Institution: Boston Children's Hospital/ Harvard Medical School

10:24 am  Discussion (6 min)

ROOM B

09:00 – 10:00 am  CONCURRENT SESSION 7
Research and Genetics
Moderators: Steven Buchman, M.D., Marcia Perez Dosal, M.D.

9:00 am  128
Lectern 1
EXOME SEQUENCING REVEALS NOVEL GENETIC SUBTYPES OF NON-SYNDROMIC
MIDLINE CRANIOSYNOSTOSIS
Presenter: Andrew T. Timberlake M.D. (6 min)
Authors: Andrew T. Timberlake M.D., Charuta Furey, Derek M. Steinbacher,
Michael L. DiLuna, Dawid Larysz, John A. Persing, Richard P. Lifton
Institution: Yale University

9:06 am  129
Lectern 2
3D PRINTED BIOACTIVE CERAMIC SCAFFOLDS DEMONSTRATE INTRINSIC
OSTEOGENIC PROPERTIES IN AN UNDISTURBED OSSEOUS ENVIRONMENT
Presenter: Christopher D. Lopez, BA (6 min)
Authors: Christopher D. Lopez BA, Jonathan M. Bekisz BA, Lukasz Witek, MSci PhD,
Leyla Y. Cavdar, Fady G. Gendy, Paulo G. Coelho, DDS PhD
Institution: Icahn School of Medicine at Mount Sinai, New York NY

9:12 am  130
Lectern 1
SOMATIC PIK3CA MUTATIONS ARE PRESENT IN MULTIPLE TISSUES OF FACIAL
INfiltrATION LIPOMATOSIS
Presenter: Arin K. Greene, MD, MMSc (6 min)
Authors: Javier A. Couto, Dennis J. Konczyk, BS, Matthew P. Vivero, BA,
Harry P.W. Kozakewich, M.D.,Joseph Upton, M.D., Xi Fu, M.D.,
Bonnie L. Padiwa, DMD, M.D., John B. Mulliken, M.D., Matthew L., Warman, MD,
Arin K. Greene, MD, MMSc
Institution: Department of Plastic and Oral Surgery, Boston Children's Hospital, Harvard
Medical School
9:18 am  
Lectern 2  
131  
NON-MINERALIZED AND MINERALIZED COLLAGEN SCAFFOLDS INDUCE DIFFERENTIAL OSTEOGENIC SIGNALING PATHWAYS IN HUMAN MESENCHYMAL STEM CELLS  
Presenter: Justine Lee M.D. (6 min)  
Authors: Justine Lee, Qi Zhou, Xiaoyan Ren, Jessica Chang, David Bischoff, Daniel W. Weisgerber, Dean T. Yamaguchi, Timothy A. Miller, Brendan A.C. Harley  
Institution: University of California Los Angeles

9:24 am  
Lectern 1  
132  
WHOLE GENOME SEQUENCING FOR IDENTIFICATION OF MISSENCE MUTATION IN MAML3 INVOLVED IN HYPERTELORISM PATIENTS-A SERIES STUDY IN 5 MONOZYGOTIC TWINS  
Presenter: Jie Yuan M.D. (3 min)  
Authors: Jie Yuan, Min Wei, Don Li, Shanshan Bai, Zheyuan Yu, Liang X  
Institution: Craniofacial Center, Department of Plastic and Reconstructive Surgery, Shanghai 9th People Hospital

9:27 am  
Discussion (6 min)

9:33 am  
Lectern 2  
133  
CRANIOFACIAL FIBROUS DYSPLASIA: A MULTI-CENTRE STUDY OF THE BEHAVIOUR OF LESIONS AND THEIR TREATMENT  
Presenter: Khalid El Ghoul M.D. (3 min)  
Authors: Khalid El Ghoul M.D., Asher, C., Jivraj, B., Dunaway, D., Koudstaal, M.J., Ong, J.  
Institution: Erasmus Medical Centre

9:36 am  
Lectern 1  
134  
ABLATIVE PROCEDURES OF THE HEAD AND NECK OFTEN RESULT IN SUBSTANTIAL DEFECTS THAT REQUIRE LARGE VOLUME TISSUE TRANSFER FOR RESTORATION OF FORM AND FUNCTION  
Presenter: Mark W. Stalder M.D. (3 min)  
Authors: Mark W. Stalder M.D, Matthew Bartow, Austin Pharo, Charles Patterson, Rizwan Aslam, Gerhard S. Mundinger, Hugo St. Hilaire  
Institution: Division of Plastic and Reconstructive Surgery, Louisiana State University Health Sciences Center

9:39 am  
Lectern 2  
135  
ENDOSCOPIC ENDONASAL SKULL BASE SURGERY IN PEDIATRIC PATIENTS AND IMPACT ON MIDFACE GROWTH  
Presenter: Lindsay A Schuster M.D. (3 min)  
Authors: Lindsay A Schuster M.D, Wendy Chen, Shih-Dun Stanley Liu, Yue Fang Chang, Barton Branstetter, Paul Gardner  
Institution: Childrens Hospital of Pittsburg
<table>
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<tr>
<th>Time</th>
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<th>Presenter</th>
<th>Authors</th>
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<tbody>
<tr>
<td>9:42 am</td>
<td><strong>136</strong> SURGICAL MANAGEMENT OF A CONGENITAL CRANIOFACIAL TERATOMA VIA EXIT PROCEDURE AND EN BLOC RESECTION</td>
<td>Grand Coral Ballroom</td>
<td>Tuan A. Truong, MD</td>
<td>Tuan A. Truong, MD, Sarah A. Frommer, MD/PhD, Steven L. Henry, MD, Patrick K. Kelley, MD</td>
<td>Baylor College of Medicine</td>
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<tr>
<td>9:48 am</td>
<td><strong>137</strong> SUBCRANIOTOMY WITH NAVIGATION FOR OPTIC NERVE DECOMPRESSION IN FRONTOORBITAL FIBEROUS DYSPLASIA</td>
<td>Grand Coral Ballroom</td>
<td>Junyi Yang M.D.</td>
<td>Junyi Yang M.D.</td>
<td>Huashan Hospital, Fudan University</td>
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<td>9:51 am</td>
<td>Discussion (9 min)</td>
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<td>10:00 - 10:30</td>
<td>Coffee Break: Visit to the Exhibit and E-posters presentations</td>
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**ROOM A**

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<th>Institution</th>
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<tr>
<td>10:30 am – 01:00 pm</td>
<td><strong>GENERAL SESSION 3</strong></td>
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<tr>
<td><strong>10:30 a 11:00</strong></td>
<td><strong>PAUL TESSIER LECTURE</strong></td>
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<td>10:30- 10:35</td>
<td>Introduction:</td>
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<td>Bryant Toth, M.D.</td>
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<td>10:35 – 11:00</td>
<td>Band of Brothers</td>
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<td>Kenneth Salyer, M.D.</td>
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<tr>
<td>11:00 – 12:00 pm</td>
<td><strong>PANEL DISCUSSION 4</strong></td>
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<td></td>
<td>Facial Transplants of Composite Tissues: The True</td>
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<td>Joseph G. Mc Carthy, M.D.</td>
<td>Eduardo Rodríguez, M.D., Eric Santamaría, M.D.</td>
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<td>12:00 – 01:00 pm</td>
<td><strong>PANEL DISCUSSION 5</strong></td>
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<td>Treacher Collins Syndrome: Update</td>
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<td>Scott Bartlett, M.D.</td>
<td>Richard Hopper, M.D., Fernando Molina, M.D., John Phillips, M.D.</td>
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<tr>
<td>01:00 – 02:00 pm</td>
<td>Lunch</td>
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<th>Presenters</th>
<th>Authors</th>
<th>Institution</th>
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<tr>
<td>02:00 pm</td>
<td>138</td>
<td>WORK-RELATED PHYSICAL DISCOMFORT IN ASCFS AND ASMS MEMBERS: A SURVEY</td>
<td>Ashley L. Howarth, MD</td>
<td>Davinder J. Singh, MD, Susan Hallbeck, PhD, Valerie Lemaire, MD, Shelley S. Noland, MD</td>
<td>Mayo Clinic Arizona</td>
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<tr>
<td>02:03 pm</td>
<td>139</td>
<td>QUALITY OF LIFE IN ADULTS WITH NON-SYNDROMIC CRANIOSYNOSTOSIS</td>
<td>Daniel Mazzaferro M.D.</td>
<td>Ari Wes, Sanjay Naran, Scott Bartlett, Jesse Taylor</td>
<td>The Childrens Hospital of Philadelphia</td>
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<tr>
<td>02:06 pm</td>
<td>140</td>
<td>TOTAL HUMAN EYE ALLOTRANSPLANTATION: PROTOCOL OPTIMIZATION OF IMAGING MODALITIES IN A NON-HUMAN PRIMATE MODEL</td>
<td>Edward H Davidson MA (Cantab) MBBS</td>
<td>Jonathan Carney PhD, Brian Lopresti PhD, Maxine Miller M.D., Kia M Washington MD</td>
<td>Montefiore Medical Center/Albert Einstein College of Medicine</td>
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<tr>
<td>02:09 pm</td>
<td>141</td>
<td>CASE REPORT AND TEN-YEAR FOLLOW-UP: UNSUCCESSFUL ATTEMPT AT STAGED SURGICAL SEPARATION OF CRANIOPAGUS TWINS AFTER VENOUS SINUS COIL EMBOLIZATIO</td>
<td>Elbert E Vaca, MD</td>
<td>Donald J. Harvey, MD, Chad A Purnell, MD, Arun K Gosain, MD</td>
<td>Division of Plastic &amp; Reconstructive Surgery, Lurie Children’s Hospital, Chicago, IL</td>
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<tr>
<td>02:12 pm</td>
<td>142</td>
<td>ETHNICITY AND CRANIOSYNOSTOSIS: IS THERE A CONNECTION?</td>
<td>Gina Sacks</td>
<td>Albert Oh, Amir Dorofshar, Christian Vercler, Steven Buchman, Kamlesh Patel</td>
<td>University of Michigan</td>
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<tr>
<td>02:15 pm</td>
<td>143</td>
<td>INCREASED TOTAL RETINAL THICKNESS; A PRECURSOR FOR INTRACRANIAL HYPERTENSION?</td>
<td>S.D.C. van de Beeten M.D.</td>
<td>I.M.J. Mathijsen, M.L.C. van Veelen</td>
<td>Erasmus MC Rotterdam</td>
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</table>
2:18 pm  Discussion (9 min)

2:27 pm  
Lectern 1  

144  
FIRST-IN-HUMAN INTEGRATION OF NEUROMODULATION DEVICE WITHIN COMPUTER-DESIGNED CUSTOM CRANIAL IMPLANT  
Presenter: Chad R. Gordon, D.O. (3 min)  
Authors: Chad R. Gordon, D.O., Gabriel F. Santiago, M.D., Judy Huang, M.D., Gregory K Bergey, M.D., Mehran Armand, Ph.D., Henry Brem, M.D., William S. Anderson, M.A., M.D., Ph.D.  
Institution: Johns Hopkins University Department of Plastic and Reconstructive Surgery

2:30 pm  
Lectern 2  

145  
ANALYSIS OF FOLLICLE-STIMULATING HORMONE RECEPTOR EXPRESSION IN INFANTILE HEMANGIOMA  
Presenter: Arin K Greene MD, MMSc (3 min)  
Authors: Reid Maclellan MD, MMSc, Fu Xi MD, Javier A Couto MD, Lan Huang PhD, Joyce Bischoff PhD, Arin K Greene MD, MMSc  
Institution: Boston Childrens Hospital / Harvard Medical School

2:33 pm  
Lectern 1  

146  
A NEW CLASSIFICATION OF PARRY-ROMBERG SYNDROME  
Presenter: Reena Bakshi M.D. (3 min)  
Authors: Reena Bakshi M.D., Brad Gandolfi, Kameron Rezzadeh, Henry K. Kawamoto, Reza Jarrahy  
Institution: Department of Plastic Surgery, University of California, Los Angeles

2:36 pm  
Lectern 2  

147  
CLEFT WIDTH RATIO AND PALATAL LENGTH: A SIMPLE, PROGNOSTIC SEVERITY SCALE FOR CLEFT PALATE  
Presenter: Meghan McCullough M.D. (3 min)  
Authors: William P Magee, Caroline Yao, MS, MD, Meghan McCullough, MD, Jordan Swanson, MD  
Institution: University of Southern California

2:39 pm  
Lectern 1  

148  
PROLIFERATIVE CAPACITY OF HUMAN CHONDROCYTES IN 3D BIOPRINTED CARTILAGE IN VIVO  
Presenter: Lars Kölby M.D. (6 min)  
Authors: Lars Kölby M.D., Peter Apelgren, Matteo Amoroso, Anders Lindahl, Camilla Brantsing, Paul Gatenholm  
Institution: Institute of Clinical Sciences, Department of Plastic Surgery, University of Gothenburg, Sahlgrenska University Hospital, Gothenburg, Sweden

2:45 pm  
Lectern 2  

149  
SALVAGE EAR RECONSTRUCTION OF THE UNSATISFIED PATIENT: AN AUTOGENOUS APPROACH  
Presenter: Akira Yamada M.D. (6 min)  
Authors: Akira Yamada M.D.  
Institution: World Craniofacial Foundation

2:51 pm  Discussion (9 min)
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<th>Institution</th>
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<tr>
<td>2:00 pm</td>
<td>150</td>
<td>02:00 – 03:00 pm</td>
<td>OBSERVATIONS ON THE DIFFUSION MAGNETIC RESONANCE IMAGING IN CHILDREN WITH CRANIOSYNOSTOSIS</td>
<td>Alexandrou K. M.D.</td>
<td>Alexandrou K. M.D., Mentzelopoulos A., Karanasiou I., Matsopoulos G.,</td>
<td>Hellenic Craniofacial Center and National Technical University of Athens</td>
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<td>2:03 pm</td>
<td>151</td>
<td>02:00 – 03:00 pm</td>
<td>USE OF ANTE-NATAL ULTRASOUND TO DIAGNOSE SAGITTAL SYNOSTOSIS</td>
<td>Peter Anderson M.D.</td>
<td>Peter Anderson M.D., David David, Sarah Constantine</td>
<td>Australian Craniofacial Unit</td>
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<tr>
<td>2:06 pm</td>
<td>152</td>
<td>02:00 – 03:00 pm</td>
<td>PURSUING A 3D CEPHALOMETRIC NORM IN EUMORPHICS: EVALUATION METHOD AND PRELIMINARY RESULTS</td>
<td>Giovanni Badiali M.D.</td>
<td>Giovanni Badiali M.D., Federica Ruggiero, Cristiano Saporosi, Claudio</td>
<td>Oral and Maxillo-facial Surgery Dept, S.Orsola University Hospital Bologna,</td>
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<td>Marchetti, Alberto Bianchi</td>
<td>DIBINEM, Alma Mater Studiorum University of Bologna</td>
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<tr>
<td>2:09 pm</td>
<td>153</td>
<td>02:00 – 03:00 pm</td>
<td>A VALIDATED COMPUTATIONAL MODEL OF NORMAL CALVARIAL GROWTH IN HUMANS</td>
<td>Mehran Moazen M.D.</td>
<td>Joseph Libby, Arsalan Marghoub, David Johnson, Roman Khonsari, Michael</td>
<td>University of Hull, UK</td>
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<td>2:12 pm</td>
<td>154</td>
<td>02:00 – 03:00 pm</td>
<td>DIFFUSION TENSOR IMAGING FIBER TRACTOGRAPHY IN YOUNG NON-OPERATED CRANIOSYNOSTOSIS PATIENTS</td>
<td>B.F.M. Rijken M.D.</td>
<td>B.F.M. Rijken M.D., J.M. Florisson, M. Bedar, A. Leemans, K. van</td>
<td>Erasmus MC, Rotterda, the Netherlands</td>
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<td>Montfort, M.H. Lequin, I.M.J. Mathijssen</td>
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<td>2:15 pm</td>
<td>Lectern 2</td>
<td>ULTRASOUND ASSESSMENT OF THE CRANIAL VENOUS DRAINAGE IN SYNDROMIC AND NON-SYNDROMIC CRANIOSYNOSTOSIS: A PROSPECTIVE CASE-CONTROL PILOT STUDY</td>
<td>Martijn Cornelissen M.D. (3 min)</td>
<td>Martijn Cornelissen M.D., Robbin de Goederen, Priya Doerga, Marie-Lise van Veelen, Jeroen Dudink, Irene Mathijsen</td>
<td>Erasmus University Medical Center, Rotterdam, the Netherlands</td>
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<td>2:18 pm</td>
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<td>Discussion (9 min)</td>
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<tr>
<td>2:27 pm</td>
<td>Lectern 1</td>
<td>CHARACTERIZATION OF BILATERAL PARIETAL THINNING</td>
<td>Paymon Sanati-Mehrizy, M.D. (3 min)</td>
<td>Paymon Sanati-Mehrizy, M.D., Marisa Cornejo, Hope Weissler, Michael J Ingargiola, Thomas Naidich, Peter J Taub</td>
<td>Icahn School of Medicine at Mount Sinai</td>
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<td>2:30 pm</td>
<td>Lectern 2</td>
<td>PERFUSION OF THE BRAIN IN CHILDREN WITH SYNDROMIC CRANIOSYNOSTOSIS AND HEALTHY CONTROLS</td>
<td>Priya Doerga M.D. Authors: Priya Doerga M.D (3 min)</td>
<td>M. Wagner, A. Poretti, R. Tasker, M.H. Lequin, I.M.J. Mathijsen</td>
<td>ErasmusMC</td>
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<td>2:33 pm</td>
<td>Lectern 1</td>
<td>MODELING CRANIOSYNOSTOSIS SEVERITY AND PROGRESSION IN INFANTS USING HIDDEN MARKOV MODELS</td>
<td>David Khechoyan M.D. (3 min)</td>
<td>David Khechoyan, Salem Karani, Ron Goldman, John Phillips</td>
<td>Children's Hospital Colorado</td>
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<td>2:36 pm</td>
<td>Lectern 2</td>
<td>APPLICATION OF GEOMETRIC MORPHOMETRICS AND STATISTICAL MODELING IN CRANIOFACIAL SURGERY</td>
<td>David Dunaway M.D. (3 min)</td>
<td>David Dunaway M.D., Alan Ponniah, James Booth, Anastasios Roussos, Nai Rodriguez-Florez, Silvia Schievano, Stefanos Zafeiriou</td>
<td>Great Ormond Street Hospital for Children</td>
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<td>2:39 pm</td>
<td>Lectern 1</td>
<td>3D VIRTUAL PLANNING IN CRANIOMAXILLOFACIAL SURGERY</td>
<td>David Genecov, MD (3 min)</td>
<td>David Genecov, MD, Carlos Raul Barcelo de la Isla</td>
<td>International Craniofacial institute</td>
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<td>2:42 pm</td>
<td>Lectern 2</td>
<td>CT LANDMARKS FOR THE MORPHOLOGICAL ASSESSMENT OF UNICORONAL CRANIOSYNOSTOSIS</td>
<td>H. Shido, M.D. (3 min)</td>
<td>Hiroshi Nishikawa, H. Shido M.D., D. Rodrigues, M. Evans, N White, S Dover</td>
<td>Birmingham Children’s Hospital</td>
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</table>
2:45 pm 162
Lectern 1
DIAGNOSTIC IMAGING OF SKULL DEFORMITIES WITH BLACK BONE MRI
Presenter: Anne Saarikko M.D. (6min)
Authors: Anne Saarikko M.D. Kuusela Linda, Brandstack Nina, Autti Taina
Institution: Cleft and Craniofacial Unit, Dep Plastic Surgery

2:51 pm
Lectern 2
Discussion (9 min)

ROOM A

03:00 – 04:00 pm CONCURRENT SESSION 9
Hemifacial Microsomia
Moderators: Scott Bartlett, M.D., Oleh Antonyshyn, M.D.

3:00 pm 163
Lectern 1
OPEN CALLUS MANIPULATION: A STEP FORWARD IN DISTRACTION OSTEGENESIS RECONSTRUCTION OF THE MANDIBLE AND MAXILLA
Presenter: Alberto Pereira M.D. (3 min)
Authors: Alberto Pereira M.D., Paulo Neves
Institution: Portuguese Armed Forces Hospital

3:03 pm 164
Lectern 2
ANATOMIC CONSIDERATIONS FOR THE FIRST TEMPOROMANDIBULAR JOINT VASCULARIZED COMPOSITE ALLOTRANSPLANTATION
Presenter: Nima Khavanin M.D. (3 min)
Authors: Nima Khavanin M.D., Diana Lee, Amir H Dorafshar, Patrick Byrne, Edward H Davidson
Institution: Johns Hopkins Hospital

3:06 pm 165
Lectern 1
GROWTH POTENTIAL OF FREE FIBULA FLAP FOR MANDIBULAR RECONSTRUCTION IN PEDIATRIC AGE
Presenter: Gerardo Chavez-Perez M.D. (3 min)
Authors: Eric Santamari, Soledad Rubio-Mainardi, Damian Palafoux, Gerardo Chavez-Perez, Candelaria Cueto
Institution: Hospital General Dr Manuel Gea Gonzalez

3:09 pm 166
Lectern 2
A RETROSPECTIVE REVIEW OF FREE FIBULA FLAP FOR PEDIATRIC MANDIBLE RECONSTRUCTION AFTER TUMOR RESECTION
Presenter: Ruth Lumbuun M.D. (3 min)
Authors: Prasetyanugrahenci Kreshanti, Ruth Lumbuun M.D., Dewi Mukkaramah, Parintosa Atmodiwirjo
Institution: Plastic Reconstructive and Aesthetic Surgery Division, Department of Surgery, Cipto Mangunkusumo Hospital - Faculty of Medicine, Universitas Indonesia
3:12 pm  
**Lectern 1**  
**167**  
**DEVELOPMENT OF A FULLY BURIED PERSONALISED 3D INTERNAL MANDIBULAR DISTRACTION DEVICE**  
Presenter: Will Rodgers M.D. (3 min)  
Authors: Will Rodgers M.D., Owase Jeelani, Alessandro Borghi, Silvia Schievano, David Dunaway  
Institution: Great Ormond Street Hospital for Children

3:15 pm  
**Lectern 2**  
**168**  
**LEFORT 2.5 OSTEOTOMY WITH MIDFACE DISTRACTION FOR THE TREATMENT OF NAGER SYNDROME**  
Presenter: Sagar Mehta M.D. (3 min)  
Authors: Sagar Mehta M.D., Barbu Gociman, Faizi Siddiqi, Neal Moores, Duana Yamashiro  
Institution: University of Utah

3:18 pm  
Discussion (9 min)

3:27 pm  
**Lectern 1**  
**169**  
**ICHOM CRANIOFACIAL MICROsomia - THE DEVELOPMENT OF A STANDARD SET BY GLOBAL MULTIDISCIPLINARY WORKING GROUP**  
Presenter: Justine O’Hara M.D. (6 min)  
Authors: Justine O’Hara M.D., Dunaway, D, Arora, J, Koudstaal, M  
Institution: Great Ormond Street Hospital for Sick Children

3:33 pm  
**Lectern 2**  
**170**  
**COMBINED SOFT AND SKELETAL TISSUE MODELLING OF NORMAL AND DYSMORPHIC MIDFACE POSTNATAL DEVELOPMENT**  
Presenter: Amel Ibrahim M.D. (6 min)  
Authors: Amel Ibrahim M.D., Michael Suttie, Roberto L. Flores, David Dunaway, Peter Hammond, Patrizia Ferretti  
Institution: UCL Great Ormond Street Institute of Child Health, University College London

3:39 pm  
**Lectern 1**  
**171**  
**EXPERIENCE OF HEMIFACIAL RECONSTRUCTION WITH PREFabricATED EXPANDED SUPRACLAVICULAR FLAP**  
Presenter: Cheng Chun Wu M.D. (6 min)  
Authors: Cheng Chun Wu M.D., Jui Pin Lai  
Institution: Chang Gung Memorial Hospital Kaohsiung

3:45 pm  
**Lectern 2**  
**172**  
**BALANCING DISTRACTION FORCES IN THE MANDIBLE: NEWTONS THIRD LAW OF DISTRACTION**  
Presenter: Sameer Shakir, MD (6 min)  
Authors: Sameer Shakir, MD, Sanjay Naran, MD, Kristen M. Lowe, DDS, MS, Jesse A. Taylor, MD, Scott P. Bartlett, MD  
Institution: Children’s Hospital of Philadelphia

3:51 pm  
Discussion (9 min)
## Room B

### 03:00 – 04:00 pm

#### Concurrent Session 9

**Syndromic Craniosynostosis**

*Moderators: Juan Martin Chavanne, M.D., Eric Arnaud, M.D.*

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<tr>
<th>Time</th>
<th>Lectern</th>
<th>Title</th>
<th>Presenter</th>
<th>Authors</th>
<th>Institution</th>
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<tr>
<td>3:00</td>
<td>Lectern 1</td>
<td><strong>Significance of Midfacial Distraction for Infants with Syndromic Craniosynostosis</strong></td>
<td>Nobuyuki Mitsukawa M.D.</td>
<td>Nobuyuki Mitsukawa M.D., Yoshitaka Kubota, Shinsuke Akita, Kaneshige Satoh</td>
<td>Dept. of Plastic and Reconstructive Surgery, Chiba University</td>
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<td>3:03</td>
<td>Lectern 2</td>
<td><strong>Comparison of Complication Rate Between Monobloc Advancement and LeFort III Osteotomy, With or Without Distraction Osteogenesis, in the Treatment of Craniosynostosis</strong></td>
<td>Rebecca Knackstedt M.D.</td>
<td>Rebecca Knackstedt M.D., Bahar Bassiri, Antonio Rampazzo</td>
<td>Cleveland Clinic Foundation</td>
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<td>3:06</td>
<td>Lectern 1</td>
<td><strong>Functional Outcome Comparison of Lengthening Temporalis MyoPlasty and Free Gracilis Muscle Transfer in Children with Facial Palsy</strong></td>
<td>Phuong Nguyen, M.D.</td>
<td>Phuong Nguyen, M.D. , Dan Mazzaferro, Kristin Faschan, Sameer Shakir, Oksana Jackson, Scott Bartlett</td>
<td>Childrens Hospital of Philadelphia</td>
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<td>3:15</td>
<td>Lectern 1</td>
<td><strong>Cognitive, Behavioural, Speech, Language and Developmental Outcomes Associated with Mutations of the ERF Gene</strong></td>
<td>Helen Care M.D.</td>
<td>Helen Care M.D., Carrie Luscombe, Louise Dalton, David Johnson, Steven Wall, Andrew Wilkie</td>
<td>Oxford Craniofacial Unit, Oxford University Hospitals NHS Foundation Trust, Oxford UK</td>
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</table>
3:18 pm  178  
**Lectern 2**
**TRANSORBITAL SURVAL NERVE GRAFTING FOR PEDIATRIC NEUROTROPHIC KERATOPATHY**  
Presenter: Sameer Shakir M.D. (3min)  
Authors: Sameer Shakir M.D., J. Thomas Paliga, Karen Revere, William Katowitz, Phuong D. Nguyen  
Institution: Children's Hospital of Philadelphia

3:21 pm  Discussion (9 min)

3:30 pm  179  
**Lectern 1**
**CORRECTION OF SECONDARY CRANIOSYNOSTOSIS DEFORMITIES WITH AUTOLOGOUS FAT**  
Presenter: Bryant A Toth, M.D. (6 min)  
Authors: Bryant A Toth, M.D., Peter Sun  
Institution: UCSF-Benioff Childrens Hospital, Oakland, California

3:36 pm  180  
**Lectern 2**
**FAT GRAFTING: THE FINAL TOUCH IN CRANEOFACIAL DEFORMITIES**  
Presenter: Pablo Arrieta, M.D. (6 min)  
Authors: Pablo Arrieta, M.D., Damián Palafox, Fernando Molina.  
Institution: Fernando Ortiz Monasterio Foundation, Hospital Angeles del Pedregal Mexico City

3:42 pm  181  
**Lectern 1**
**PREDICTORS OF AUTOLOGOUS FREE FAT GRAFT RETENTION IN THE MANAGEMENT OF CRANIOFACIAL CONTOUR DEFORMITIES**  
Presenter: Cassio Eduardo Raposo Amaral M.D. (6 min)  
Authors: Cassio Eduardo Raposo Amaral M.D., Rafael Denadai, Cesar Augusto Raposo Amaral  
Institution: SOBRAPAR

3:48 pm  182  
**Lectern 2**
**INTRAOPERATIVE THREE-DIMENSIONAL VIRTUAL REALITY AND COMPUTED TOMOGRAPHIC GUIDANCE IN TEMPOROMANDIBULAR JOINT ARTHROPLASTY OF SYNDROMIC CRANIOFACIAL DYSOSTOSES**  
Presenter: Thomas Willson M.D. (3min)  
Authors: Thomas Willson M.D., Miles Pfaff, Julia Ayeroff, James P. Bradley, Justine C. Lee  
Institution: University of California Los Angeles

3:51 pm  Discussion (9 min)

04:00 – 04:30 pm  Coffee Break: Visit to the Exhibit and E-Posters Presentations
04:30 – 05:30 pm  CONCURRENT SESSION 10
Hemifacial Microsomia and Treacher Collins
Moderators: Joseph G. Mc Carthy, M.D., Mc Kay Mc Kinnon, M.D.

4:30 pm  183
SURGERY-FIRST ORTHOGNATHIC SURGERY FOR FACIAL ASYMMETRY USING
INTERNAL MANDIBULAR 3D-TYPE DISTRACTOR
Presenter: Yorikatsu Watanabe M.D. (6 min)
Authors: Yorikatsu Watanabe M.D., Takahiro Yamamoto, Ryo Sasaki, Tanetaka Akizuki
Institution: Tokyo Metropolitan Police Hospital

4:36 pm  184
NEW TECHNIQUE TO MANAGE NARROWED MANDIBULAR RAMI IN PEDIATRIC
PATIENTS
Presenter: Filipp Vladimirov M.D. (6 min)
Authors: Filipp Vladimirov M.D., Dmitry Komelyagin, Dubin Sergey, Topolnickiy Orest,
Dergachenko Anna, Krasheninnikov Leonid
Institution: Moscow State University of Medicine and Dentistry

4:42 pm  185
CHANGING THE FACIAL FEATURES OF PATIENTS WITH TREACHER COLLINS
SYNDROME PROTOCOL FOR 3-STAGE TREATMENT OF HARD AND SOFT TISSUE
HYPOPLASIA IN THE UPPER HALF OF THE FACE
Presenter: Nobuyuki Mitsukawa M.D. (6 min)
Authors: Nobuyuki Mitsukawa M.D., Atsuomi Saiga, Yoshitaka Kubota, Kaneshige Satoh
Institution: Dept. of Plastic and Reconstructive surgery, Chiba University

4:48 pm  186
TREACHER COLLINS SYNDROME ECTROPION CORRECTION WITH MICRO MITEK
CANTHOPEXY: A NEW OPTION - PRELIMINARY, LONG-TERM FOLLOW-UP
Presenter: Albaraa Aljerian M.D. (6 min)
Authors: Marie Lucie Lessard, Albaraa Aljerian M.D., Hassan AlNaeem
Institution: McGill University Health Center

4:54 pm  187
ALGORITHM FOR EAR RECONSTRUCTION AFTER RADICAL RESECTION OF
ARTERIOVENOUS MALFORMATION OF THE AURICULAR REGION
Presenter: Dov Charles Goldenberg M.D. (3 min)
Authors: Dov Charles Goldenberg M.D., Marina Vilela Chagas Ferreira, Rolf Gemperli
Institution: Division of Plastic Surgery Hospital das Clinicas University of Sao Paulo
Medical School

4:57 pm  Discussion (8 min)
5:05 pm
Lectern 2
AUTOMATIC PLANNING OF CRANIAL VAULT RECONSTRUCTION FOR METOPIC CRANIOSYNOSTOSIS TREATMENT
Presenter: Antonio R. Porras M.D. (3 min)
Authors: Antonio R. Porras M.D., Beatriz Paniagua, Andinet Enquobahrie, Robert Keating, Gary F. Rogers, Marius George Linguraru
Institution: Childrens National Health System

5:08 pm
Lectern 1
IMPROVING AESTHETIC OUTCOMES UTILIZING IMAGE-GUIDED SURGICAL NAVIGATION IN FRONTAL BONE CONTOURING
Presenter: Brian T Andrews MD (3 min)
Authors: James D Vargo MD, James P Bradley MD, Brian T Andrews MD
Institution: University of Kansas Medical Center

5:11 pm
Lectern 2
INNOVATIVE APPLICATION OF ROBOTIC (ROSA) ASSISTANCE IN LE FORT III DISTRACTION OSTEOGENESIS
Presenter: Pramod Subash M.D. (3 min)
Authors: Pramod Subash M.D., Suhas Udayakumaran, Ashok Pillai, Arjun Krishnadas
Institution: Amrita Institute of Medical Sciences, Kochi, India

5:14 pm
Lectern 1
ORBITAL MORPHOLOGY IN CROUZON SYNDROME: A 3D ASSESSMENT BEFORE AND AFTER FRONTO-FACIAL MONOBLOC ADVANCEMENT WITH INTERNAL DISTRACTION
Presenter: Khonsari M.D. (3min)
Authors: Khonsari M.D., Roman Hossein Khonsari, Johan Nysjö, Ronak Sandy, Ingela Nyström, Giovanna Paternoster, Eric Arnaud
Institution: Hôpital Universitaire Necker - Enfants Malades, Paris, France

5:17 pm
Lectern 2
EVALUATION OF THE ACCURACY OF A 3D IMAGING SYSTEM IN CRANIOFACIAL PATIENTS
Presenter: Ben Robertson, M.D. (3 min)
Authors: Christian Duncan, David Richardson, Joern Wittig, Chris Parks, Ben Robertson, M.D., Ajay Sinha
Institution: Alder Hey Childrens Hospital NHSFT

5:20 pm
Lectern 1
HOLOGRAPHIC CRANIOFACIAL SURGICAL PLANNING APPLICATION: EVALUATION OF USABILITY
Presenter: Kihyun Cho, MD, MSc (6 min)
Authors: Kihyun Cho, MD, MSc, Jeff Yanof, PhD, Graham S Schwarz, MD, FACS, Karl West, MS, Bahar Bassiri, Gharb, MD, PhD, Francis A. Papay, MD
Institution: Plastic Surgery, Cleveland Clinic, Cleveland, Ohio, USA

5:26 pm
Discussion (8 min)
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<th>Presenter</th>
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<tr>
<td>4:30 pm</td>
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<td>ORBITAL PHENOTYPE IN TREACHER COLLINS SYNDROME: A STUDY USING MESH-BASED SEGMENTATION AND 3D SHAPE COMPARISON</td>
<td>Julie Levasseur</td>
<td>Khonsari, M.D., Julie Levasseur, Ronak Sandy, Arnaud Picard, Pierre Corre, Johan Nysjö, Roman Hossein Khonsari</td>
<td>Hôpital Universitaire Necker - Enfants Malades, Paris, France</td>
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<td>4:33 pm</td>
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<td>MINIMALLY INVASIVE ENDOSCOPIC STRIP CRANIECTOMY FOR CRANIOSYNOSTOSIS: RESULTS OF 100 CONSECUTIVE CASES</td>
<td>Suresh N. Magge M.D.</td>
<td>Suresh N. Magge M.D., Orgest Lajthia, Robert F. Keating, John S. Myseros, Chima O. Oluigbo, Gary F. Rogers</td>
<td>Childrens National Health System</td>
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<td>4:36 pm</td>
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<td>MANAGEMENT OF THE INADEQUATELY MANAGED ENDOSCOPIC ASSISTED CORRECTION OF CRANIOSYNOSTOSIS - ROTTERDAM EXPERIENCE</td>
<td>Vani Prasad M.D.</td>
<td>Vani Prasad M.D., Vani Prasad, Abdullah Khawar, Marie-Lise van Veelan, Sarah Versnel, Irene Mathijsen</td>
<td>Sophia Children’s Hospital, Rotterdam</td>
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<td>4:39 pm</td>
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<td>SECONDARY DISTRACTION LE FORT 3 AFTER FRONTOFACIAL MONOBLOC IMPROVES RESISTANT SLEEP APNEA</td>
<td>Sam Haber, M.D.</td>
<td>Sam Haber, M.D., Junnu Leikola, Daniel Saiepour, Brigitte Fauroux, Hossein Khonsari, Eric Arnaud</td>
<td>Hospital Necker craniofacial unit</td>
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<td>4:42 pm</td>
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<td>EVALUATION OF ENDOSCOPIC STRIP CRANIECTOMY FOR BILATERAL CORONAL CRANIOSYNOSTOSIS AT TWO INSTITUTIONS</td>
<td>Gary Skolnick M.D.</td>
<td>Conor Williams, Matthew Smyth, Gary Skolnick M.D., Sybill Naidoo, Mark Proctor, Kamlesh Patel</td>
<td>Washington University School of Medicine in St. Louis</td>
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<td>4:45 pm</td>
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<td>INCIDENCE OF CRANIAL BASE SUTURE FUSION IN INFANTS WITH CRANIOSYNOSTOSIS</td>
<td>Jesse Taylor M.D.</td>
<td>Jesse Taylor M.D., Dan Mazzaferro, Ari Wes, Sanjay Naran, Scott Bartlett</td>
<td>The Childrens Hospital of Philadelphia</td>
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<td>4:51 pm</td>
<td>Discussion (10 min)</td>
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<td>5:01 pm</td>
<td>200 THE MORPHOMETRICS ABOUT ORBITAL AND MAXILLARY AREA AFTER CRANIOFACIAL OPERATION IN CHILDREN WITH PREMATURE CRANIOSYNOSTOSIS</td>
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<td>Presenter: Shen Weimin M.D. (3 min)</td>
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<td></td>
<td>Authors: Shili Jun, Shen Weimin, Gaoqing Wen, Kongliang Liang</td>
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<td></td>
<td>Institution: Department of Plastic Surgery, Children’s Hospital of Nanjing Medical University</td>
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<td>5:04 pm</td>
<td>201 THE EFFECT OF PREOPERATIVE MOLDING HELMET ON CALVARIAL GROWTH OF PATIENTS WITH SAGITTAL SYNOSTOSIS</td>
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<td>Presenter: Asra Hashmi, MD (3 min)</td>
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<td>Authors: Asra Hashmi, MD, Asra Hashmi, MD, Sandeep Sood, MD, Nicole Steele, Arlene Rozzelle, MD</td>
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<td>Institution: Wayne State University/Detroit Medical Center</td>
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<td>5:07 pm</td>
<td>202 SPRING-MEDIATED CRANIOPLASTY IN SAGITTAL SYNOSTOSIS: DOES AGE AT PLACEMENT AFFECT RESULTS?</td>
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<td>Presenter: Sanjay Naran M.D. (3 min)</td>
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<td></td>
<td>Authors: James Sun, Netanja S ter Maaten, Daniel M Mazzaferro, Sanjay Naran M.D, Scott P Bartlett, Jesse A Taylor</td>
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<td>Institution: Childrens Hospital of Philadelphia</td>
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<td>5:10 pm</td>
<td>203 AN APPRAISAL OF THE CEPHALIC INDEX IN SAGITTAL CRANIOSYNOSTOSIS, AND THE UNSEEN 3RD DIMENSION</td>
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<td>Presenter: Jeffrey Fearon M.D. (6 min)</td>
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<td>Authors: Jeffrey Fearon M.D., Kanlaya Dittakasem, MNS, RN, Morley Herbert, PhD, John Kolar, PhD</td>
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<td>Institution: The Craniofacial Center</td>
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<td>5:16 pm</td>
<td>204 LONG TERM FOLLOW UP IN CRANIOFACIAL OSTEOGENIC DISTRACTION WITH RESORBABLE DEVICES</td>
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<td>Presenter: Hector Malagon, M.D. (6 min)</td>
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<tr>
<td></td>
<td>Authors: Hector Malagon, M.D., Vilchis Roberto, Ayala Fernan</td>
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<td>5:22 pm</td>
<td>Discussion (9 min)</td>
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<td>5:31 pm</td>
<td>205 OUTCOMES OF ENDOSCOPIC-ASSISTED SPRING-MEDIATED CRANIOPLASTY COMPARED TO OPEN SPRING-MEDIATED CRANIOPLASTY</td>
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<td>Presenter: Kyle Steven Gabrick (3 min)</td>
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<td>Authors: Christopher Michael Runyan, Kyle Steven Gabrick, Jungwon Genevieve Park, Edreca Allison Thompson, Daniel Couture, Lisa Renee David</td>
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<td></td>
<td>Institution: Wake Forest Baptist Medical Center</td>
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5:34 pm  
Lectern 1  
**206**  
COGNITIVE ASSESSMENT IN SCHOOL AGE CROUZON AND PFEIFFER AFTER FRONTOFACIAL MONOBLOC  
Presenter: Martin Rachwalski (3min)  
Authors: X. Dahiez, L. Pamphile-Tabuteau, K. André, N. Angeard, M. Zerah, E. Arnaud, M. Rachwalski  
Institution: Hospital Necker CF unit-Psychology

5:37 pm  
Lectern 2  
**207**  
FRONTAL WIDENING AND REMODELING FOR SCAPHOCEHALIC CHILDREN OLDER THAN ONE  
Presenter: X. L. Jing M.D. (3min)  
Authors: Eric Arnaud, X. L. Jing M.D., G. Paternoster, S. James, X. Liu, M. Zerah  
Institution: Hospital Necker craniofacial unit

5:40 pm  
Lectern 1  
**208**  
UNTANGLIN ASSOCIATIONS BETWEEN SURGICAL PARAMETERS AND HEAD SHAPE IN SPRING-ASSISTED CRANIOPLASTY  
Presenter: NU Owase Jeelani M.D. (6 min)  
Authors: Naiara Rodriguez-Florez, Jan L Bruse, Alessandro Borghi, Silvia Schievano, NU Owase Jeelani M.D., David J Dunaway  
Institution: UCL GOS Institute of Child Health and Great Ormond Street Hospital for Children

5:46 pm  
Lectern 2  
**209**  
THE USE OF CAD/ CAM TMJ PROSTHESES IN PATIENTS WITH CONGENITAL CRANIOFACIAL DEFORMITIES  
Presenter: Ignacio Garcia Recuero, MD (6 min)  
Authors: Ignacio Garcia Recuero, A.I. Romance MD, M. Redondo Alamillos, G.S. Aniceto MD.PhD.  
Institution: Oral and Maxillofacial Surgery Servicel.H.U.

5:52pm  
Discussion (9 min)

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CRANIOSYNOSTOSIS AND PIERRE ROBIN  
Moderators: Cassio E Raposso do Amaral, M.D, Alicia Sigler, MD

6:01 pm  
Lectern 1  
**210**  
MANDIBULAR OSTEOGENIC DISTRACTION IN NEONATES WITH PIERRE ROBIN SEQUENCE - SEVENTEEN YEARS EXPERIENCE - RESULTS ON FIRST TWENTY CASES  
Presenter: Marcus Collares M.D. (6 min)  
Authors: Marcus Collares M.D, Mariana M Fraga, Denise Manica, Temis Felix, Jorge Morán, Simone Fagondes, Aline Tovo, Silvia Dorneles  
Institution: University of Rio Grande do Sul - Brazil

6:07 pm  
Lectern 2  
**211**  
CRANIOCERVICAL INSTABILITY IN PIERRE-ROBIN SEQUENCE ASSOCIATED WITH SKELETAL DYSPLASIA: CASE REPORT  
Presenter: Jack E. Brooker M.D. (3 min)  
Authors: Xiao Zhu, Jonathan Y. Lee, Jack E. Brooker M.D., Jesse A. Goldstein, Joseph E. Losee  
Institution: University of Pittsburgh Department of Plastic Surgery
6:10 pm  
Lectern 1  
**212**  
**REACHING LINGUAL ORTHOTOPY IN OROPHARYNGEAL OBSTRUCTION - A TECHNIQUE PROPOSAL**  
Presenter: Jullyana Heinen Peixoto M.D. (3 min)  
Authors: Vera Lucia Nocchi Cardim, Jullyana Heinen Peixoto M.D., Alessandra dos Santos Silva  
Institution: Beneficência Portuguesa de São Paulo

6:13 pm  
Lectern 2  
**213**  
**MANDIBULAR MORPHOLOGY AFTER DISTRACTION OSTEOGENESIS IN SYNDROMIC PIERRE ROBIN SEQUENCE PATIENTS**  
Presenter: Renata Maricevich M.D. (3 min)  
Authors: Renata Maricevich M.D., Wendy Chen, Jeffrey G Trost, Jr., Jesse A Goldstein, Joseph E Losee  
Institution: Texas Childrens Hospital

6:16 pm  
Lectern 1  
**214**  
**PIERRE ROBIN SEQUENCE: STRATIFYING FEEDING DYSFUNCTION AND IDENTIFYING VARIABLES AFFECTING OUTCOME**  
Presenter: Wei Wei Lee M.D. (3 min)  
Authors: Wei Wei Lee M.D., Wendy Chen, Joshua Barnett, Matthew Ford, Christal V Steinbach, Jesse A Goldstein  
Institution: Childrens Hospital of Pittsburgh

6:19 pm  
Discussion (10 min)

19:30-20:00  
Farewell Dinner Reception. Foyer Grand Coral Room

20:00-23:00  
Farewell Dinner. Grand Coral Room 1
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenter(s)</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am</td>
<td>Lectern 1</td>
<td>215 FRONTAL SINUS FRACTURES: EVALUATION OF 19 CASES OF A UNIVERSITY HOSPITAL IN CAMPINAS, SÃO PAULO, BRAZIL</td>
<td>Rogerio A. Modesto de Abreu (3 min)</td>
<td>Rogerio A. Modesto de Abreu, Daniella N. Camargo, Leticia Watanabe</td>
<td>Pontifícia Universidade Católica de Campinas</td>
</tr>
<tr>
<td>8:33 am</td>
<td>Lectern 2</td>
<td>216 OPTIMIZATION OF ORBITAL FRACTURE FIXATION USING LOW-COST PATIENT SPECIFIC 3D PRINTED MODELS</td>
<td>Lucas Dvoracek M.D. (3 min)</td>
<td>Lucas Dvoracek M.D., Jonathan Lee, Jignesh Unadkat, Joseph Losee,</td>
<td>University of Pittsburgh Department of Plastics Surgery</td>
</tr>
<tr>
<td>8:36 am</td>
<td>Lectern 1</td>
<td>217 A SYSTEMATIC REVIEW OF ENDOSCOPIC REPAIR OF MANDIBLE FRACTURES</td>
<td>Paymon Sanati-Mehrizy M.D. (3 min)</td>
<td>Paymon Sanati-Mehrizy M.D., Benjamin B Massenburg, Rami D Sherif,</td>
<td>Icahn School of Medicine at Mount Sinai</td>
</tr>
<tr>
<td>8:39 am</td>
<td>Lectern 2</td>
<td>218 THE HYBRID ARCH BAR IS A COST-BENEFICIAL ALTERNATIVE IN THE OPEN TREATMENT OF MANDIBULAR FRACTURES</td>
<td>Visakha Suresh, BS (3 min)</td>
<td>Renata Khelemsky, DDS, MD, David B Powers, DMD, MD, FACS, FRCS,</td>
<td>Albert Einstein College of Medicine</td>
</tr>
<tr>
<td>8:42 am</td>
<td>Lectern 1</td>
<td>219 MANAGEMENT OF HIGH-ENERGY AVULSIVE BALLISTIC FACIAL INJURY: A REVIEW OF THE LITERATURE AND ALGORITHMIC APPROACH</td>
<td>Elbert E Vaca M.D. (6 min)</td>
<td>Elbert E Vaca M.D. Justin L Bellamy, Sammy Sinno, Eduardo D Rodriguez</td>
<td>Northwestern Memorial Hospital, Division of Plastic and Reconstructive Surgery</td>
</tr>
<tr>
<td>8:48 am</td>
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</tbody>
</table>
8:57 am 220
Lectern 2
COMPARATIVE ANALYSIS OF CUSTOM VS MANUALLY SHAPED IMPLANTS FOR ORBITAL FLOOR RECONSTRUCTION
Presenter: Reid Chambers M.D. (6 min)
Authors: Reid Chambers M.D., Joel Davies, Glenn Edwards, Amani Ibrahim, Michael Hardisty, Oleh Antonyshyn
Institution: Sunnybrook Hospital, University of Toronto

9:03 am 221
Lectern 1
ORBITAL FLOOR FRACTURE RECONSTRUCTION MATERIALS - A SYSTEMATIC REVIEW AND META-ANALYSIS
Presenter: Sean Cameron Smith M.D. (6 min)
Authors: Sean Cameron Smith M.D., Alain J. Azzi, Ashley Ignatiuk, Daniel A. Peters
Institution: University of Ottawa

9:09 am 222
Lectern 2
35 CONDYLAR FRACTURES IN 29 CHILDREN: DEMOGRAPHICS, TREATMENT, OUTCOMES, AND LONG-TERM GROWTH
Presenter: Wendy Chen M.D. (6 min)
Authors: Wendy Chen M.D., Jack E Brooker, Wei Wei Lee, Lindsay A Schuster, Jesse A Goldstein, Joseph E Losee
Institution: University of Pittsburgh Medical Center

9:15 am 223
Lectern 1
A REVIEW OF FRONTAL SINUS FRACTURES AND ASSOCIATED OCULAR COMPLICATIONS
Presenter: Rafael Galli, MD (3 min)
Authors: Alex Viezel-Mathieu, MD, Rafael Galli, MD, Lucie Lessard, MD, FRCSC, FRCSC, FACS
Institution: McGill University Health Centre

9:18 am 224
Lectern 2
AN ALGORITHMIC APPROACH TO RECONSTRUCTION OF THE ANTERIOR CRANIAL BASE IN DEVASTATING TRAUMA
Presenter: Sameer Shakir M.D. (3 min)
Authors: Sameer Shakir M.D., Phuong D. Nguyen
Institution: University of Pennsylvania

9:21 am Discussion (9 min)
08:30 – 09:30 am  **CONCURRENT SESSION 11**  
**Major Facial Clefts**  
Moderators: Charles Davis, M.D., Rolando Prada, M.D.

8:30 am  
**225**  
**Lectern 1**  
**LONG-TERM RESULTS AFTER 25 YEARS EXPERIENCE WITH INTERDISCIPLINARY TREATMENT OF MIDLINE FACIAL CLEFTS**  
Presenter: Ricardo Bennun M.D. (6 min)  
Authors: Ricardo Bennun M.D., Julia Harfin  
Institution: National University of Buenos Aires, Maimonides University, Asociacion PIEL

8:36 am  
**226**  
**Lectern 2**  
**AN INTEGRATED APPROACH TO THE MANAGEMENT OF MENINGIOENCEPHALOCELE**  
Presenter: Greg Thomas M.D. (6 min)  
Authors: Greg Thomas M.D., Eric Tan, Jay Jayamohan, Peter Richards, Steven Wall, David Johnson  
Institution: Oxford Craniofacial Unit

8:42 am  
**227**  
**Lectern 1**  
**MANAGEMENT AND ETHICAL CONSIDERATIONS OF LARGE POSTERIOR ENCEPHALOCELE**  
Presenter: Ingrid Ganske, MD, MPA (6 min)  
Authors: Ingrid Ganske, MD, MPA, Samantha E. Hall, BA, John G. Meara, MD, DMD, MBA, Mark Proctor, MD  
Institution: Boston Children’s Hospital

8:48 am  
**228**  
**Lectern 2**  
**MUSCLE EXPANSION FOR TESSIER N3 AND N4 CRANIOFACIAL CLEFT TREATMENT**  
Presenter: Adriana Guerrero M.D. (3 min)  
Authors: Romulo Guerrero, Adriana Guerrero M.D.  
Institution: Hospital Metropolitano de Quito

8:51 am  
Discussion (10 min)

9:01 am  
**229**  
**Lectern 1**  
**TRANS-SPHENOIDAL ENCEPHALOCELE REPAIR: TIMING, TECHNICAL, AND PERIOPERATIVE CONSIDERATIONS**  
Presenter: Amir Elbarbary, MD (3 min)  
Authors: Amir Elbarbary, MD, Henry Kawamoto, MD, DDS, James P Bradley, MD  
Institution: Ain Shams University, Cairo

9:04 am  
**230**  
**Lectern 2**  
**CRANIOFACIAL CLEFTS LESSONS FROM A DECADE OF EXPERIENCE WITH 107 CASES**  
Presenter: Charles Davis M.D. (6 min)  
Authors: Charles Davis M.D.  
Institution: Wellington Craniofacial Unit
9:10 am 231
Lectern 1
A NOVEL RECONSTRUCTION TECHNIQUE FOR THE TESSIER 4 FACIAL CLEFT
Presenter: Roberto Flores M.D. (6 min)
Authors: Roberto Flores M.D., Christopher Runyan, Pradip Shetye, Elcin Esenlik,
Lawrence Brecht, Barry Zide
Institution: NYU Langone Medical Center

9:16 am 232
Lectern 2
THE INTERNATIONAL CRANIOPAGUS REGISTRY: DEVELOPING A DATABASE OF ALL CRANIOPAGUS TWINS
Presenter: Eugene Park, M.D. (6 min)
Authors: Eugene Park MD, Arun K. Gosain MD
Institution: Ann and Robert H. Lurie Childrens Hospital of Chicago

9:22 am Discussion (8 min)

09:30 – 10:00 am Visit to the Exhibit and Coffee Break

ROOM A

10:00 – 11:30 am CONCURRENT SESSION 12
Cleft Lip and Palate and Cleft Orthognatic
Moderators: Anthony Wolfe, M.D., Alvaro Figueroa, D.D.S.

10:00 am 233
Lectern 1
DETERMINING THE MOST CLINICALLY BENEFICIAL DONOR SITE FOR ALVEOLAR BONE GRAFTING IN CLEFT PALATE PATIENTS: A CRITICAL REVIEW OF THE LITERATURE
Presenter: Kirun Baweja, BS (3 min)
Authors: Kirun Baweja, BS
Institution: University of Edinburgh

10:03 am 234
Lectern 2
DEVELOPMENT OF A SMART PHONE-BASED APPLICATION FOR MORPHOLOGIC CLEFT LIP DATA COLLECTION
Presenter: Meghan McCullough M.D., Caroline Yao, MS, MD, Jordan Swanson, MD,
Allyn Ausländer, MPH, Thomas Imahiyerobo, MD, William P. Magee III, DDS, MD
Institution: University of Southern California

10:06 am 235
Lectern 1
ALVEOLAR CLEFT SIZE ON PRENATAL ULTRASONOGRAPHY PREDICTS CLEFT OF THE SECONDARY PALATE
Presenter: Eva Rubio M.D. (3 min)
Authors: Albert K. Oh, Eva Rubio M.D., Kenneth L. Fan, Anna Blask, Erin M. Rada,
Gary F. Rogers
Institution: Childrens National Health System
10:09 am
Lectern 2
236
BMP-2 ALVEOLAR BONE RECONSTRUCTION HAS IMPROVED BONE HEALING WITHOUT SIGNIFICANT DIFFERENCES IN DENTAL OUTCOMES
Presenter: Alexander Y. Lin, MD, FACS (3min)
Authors: Jeremy A. Goss, Dave S. Ho, BS, Jeremy A. Goss, MD, Margie S. Hunter, BS, Ross E. Long, Jr, DMD, Eric S. Armbrecht, PhD, Alexander Y. Lin, MD, FACS
Institution: Saint Louis University School of Medicine

10:12 am
Lectern 1
237
A QUALITY-BASED APPROACH TO OPTIMIZE THE ALVEOLAR BONE GRAFT: AN IMPROVED PERI-OPERATIVE PAIN MANAGEMENT PROTOCOL
Presenter: Dr. Justin Dagget, M.D. (3 min)
Authors: Michael Bykowski, Wesley Sivak, Catey Garland, Franklyn Cladis, Jesse A Goldstein, Joseph E Losee, Dr. Justin Dagget, M.D.
Institution: Childrens Hospital of Pittsburgh

10:15 am
Lectern 2
238
PRIMARY CORRECTION OF THE NASAL DEFORMITY IN UNILATERAL CLEFT LIP PATIENTS: MERGING THE PAST WITH THE PRESENT TO ACHIEVE A SATISFACTORY OUTCOME
Presenter: Maria del Carmen Moreno Alvarez M.D. (3 min)
Authors: Jordi Puente Espel, Maria del Carmen Moreno Alvarez M.D.
Institution: Hospital General de Mexico Eduardo Liceaga

10:18 am
Lectern 1
239
COMPARISON OF CASO4 TO CAPO4 IN PRIMARY ALVEOLAR CLEFT REPAIR
Presenter: Spiros Lazarou MD (3 min)
Authors: Spiros Lazarou
Institution: Chief, Pediatric Plastic & Craniofacial Surgery, Iaso Pediatric Hospital

10:21 am
Discussion (10 min)

10:31 am
Lectern 2
240
ROLE OF DISTRACTION OSTEOGENESIS IN THE MANAGEMENT OF CRANIO- AND DENTOFACIAL ANOMALIES
Presenter: Nicolai Adolphs M.D. (3 min)
Authors: Nicolai Adolphs M.D., Nicole Ernst
Institution: Dept. of Craniofacial Surgery, Charit University Medicine, Berlin

10:34 am
Lectern 1
241
BIPLANAR MANDIBLE CONTOURING: DESIGN AND NAVIGATED OSTEOTOMY
Presenter: Min Wei, M.D. (3 min)
Authors: Min Wei, M.D., Zheyuan Yu, Liang Xu, Jie Yuan
Institution: Dept. of PRS, Shanghai Ninth People Hospital

10:37 am
Lectern 2
242
USE OF DISTRACTION OSTEOGENESIS IN CLEFT PATIENTS SKELETAL SEQUELS
Presenter: Carlos Marcelo Cerullo M.D. (3 min)
Authors: Carlos Marcelo Cerullo M.D., Tohus Guillermo Andrés
Institution: Hospital Italiano de Buenos Aires
10:40 am  
Lectern 1  
243  
CHANGES TO THE CLEFT NOSE AESTHETIC AFTER LEFORT I ADVANCEMENT: A 3D ANALYSIS  
Presenter: Irene Ma, M.D. (3 min)  
Authors: Irene Ma, Jonathan Lee, Loni Mae Brueckmann, Ian Chow, Joseph Losee, Jesse Goldstein  
Institution: University of Pittsburgh Medical Center

10:43 am  
Lectern 2  
244  
COMBINED LE FORT 3/LE FORT 1 ORTHOGNATHIC PROCEDURES IN PATIENTS WITH CLEFT LIP AND PALATE: ESTHETIC RESULTS IN THE GLOBALLY MIDFACE DEFICIENT PATIENT  
Presenter: Michael Lypka (3 min)  
Authors: Michael Lypka, Kevin Xiao  
Institution: Children’s Mercy Hospital

10:46 am  
Lectern 1  
245  
TREATMENT OF OBSTRUCTIVE SLEEP APNEA WITH ORTOGNACtic SURGERY IN PATIENTS WITH CLEFT LIP AND PALATE  
Presenter: Diana Marcela Diaz Lopez M.D. (3 min)  
Authors: Diana Marcela Diaz Lopez, Rolando Prada, Diana Gómez, Tatiana Palomino  
Institution: Fundación Universitaria de Ciencias de la Salud

10:49 am  
Lectern 2  
246  
INTRAORAL DISTRACTION OSTEOGENESIS IN CLEFT PATIENTS  
Presenter: Cesar Guerrero, M.D. (6 min)

10:55 am  
Discussion (10 min)

11:05 am  
Lectern 1  
247  
ORTHOGNATHIC SURGERY IN PREVIOUSLY DISTRACTED MANDIBLES  
Presenter: Adriana Guerrero M.D. (6 min)  
Authors: Jacobo Felemovicius, Adriana Guerrero M.D., Sara Contreras  
Institution: Hospital General Dr. Manuel Gea Gonzalez

11:11 am  
Lectern 2  
248  
LONG TERM STABILITY OF LE FORT 1 DISTRACTION OSTEOGENESIS IN PATIENTS WITH CLEFT LIP AND PALATE  
Presenter: Jordi Puente-Espel (6 min)  
Authors: Carlos Raul Barcelo M.D., David G. Genecov, Jordi Puente-Espel  
Institution: International Craniofacial Institute, Dallas TX

11:17 am  
Lectern 1  
249  
DISTRACTION OSTEOGENESIS IN THE GROWING MAXILLA: LONG TERM RESULTS IN 41 CONSECUTIVE PATIENTS  
Presenter: Eugenia Page M.D (6 min)  
Authors: Eugenia Page M.D, Joseph Williams, Fernando Burstein, Paul Ghareeb, Stefanie Hush, Brentley Taylor  
Institution: Emory University School of Medicine
11:23 am  
Lectern 2  
250  
CURRENT INDICATIONS AND EXPERIENCE WITH MAXILLARY DISTRACTION AT A HIGH VOLUME CENTER  
Presenter: Paul Ghareeb M.D. (3 min)  
Authors: Paul Ghareeb, Joseph K Williams  
Institution: Emory University School of Medicine, Division of Plastic Surgery  

11:26 am  
Discussion (10 min)  

ROOM B  

10:00 – 11:30 am  
CONCURRENT SESSION 12  
Cleft, Lip and Palate, Velopharyngeal Deficiency and Cleft Rhinoplasty  
Moderators: Kennet Salyer, M.D., Robert Menard, M.D.  

10:00 am  
Lectern 1  
251  
THE COMMON NEEDS OF ADULT PATIENTS WITH CLEFT LIP AND/OR PALATE  
Presenter: Nicole Kurnik (3 min)  
Authors: Nicole Kurnik, MD, Stephen Beals, MD, Katharine Connolly, MD, Davinder Singh, MD, Patricia Glick, DMD, Tuan Truong, MD  
Institution: Mayo Clinic Arizona, Department of Plastic Surgery  

10:03 am  
Lectern 2  
252  
AESTHETIC OUTCOMES IN UNILATERAL CLEFT LIP: COMPARISON OF MODIFIED MILLARD VERSUS FISHER REPAIR  
WITHDRAWN  
Presenter: Kirstin Miteff, M.D. (3 min)  
Authors: Carly Fox, M.D., Kirstin Miteff, M.D., Yun Phua, M.D., Susan O’Mahony, M.D., Richard Theile, M.D., Stuart Bade, M.D.  
Institution: Lady Cilento Children’s Hospital, Brisbane Australia  

10:06 am  
Lectern 1  
253  
VOLUMETRIC EVALUATION OF ALVEOLAR CLEFT GRAFTING METHOD: BONE SUBSTITUTES VS AUTOLOGOUS BONE  
Presenter: Federica Ruggiero, M.D. (3 min)  
Authors: Federica Ruggiero, M.D., Giovanni Badiali, Enrico Costabile, Claudio Marchetti, Alberto Bianchi  
Institution: Oral and Maxillo-facial Surgery Dept, S.Orsola University Hospital Bologna, Universities of Parma Bologna Ferrara  

10:09 am  
Lectern 2  
254  
HIGH-FIDELITY CLEFT LIP SIMULATION - TAKING SURGICAL REALISM TO NEW HEIGHTS  
Presenter: Francesca Saldanha, M.D. (3 min)  
Authors: Francesca Saldanha, Andrew Hosmer, Maeve Geary, Peter Weinstock, Carolyn Rogers-Vizena  
Institution: Boston Childrens Hospital
10:12 am
Lectern 1

THE DILEMMA OF THE MANAGEMENT OF CLEFT PALATE IN AN APERT PATIENT: A RETROSPECTIVE ANALYSIS OF 43 PATIENTS
Presenter: Herman Jr Vercruysse, M.D. (3 min)
Authors: Herman Jr Vercruysse M.D., Juling Ong, Nivi Behari, Caroleen Shipster, David Dunaway
Institution: Craniofacial Unit, Great Ormond Street Hospital for Children, London, United Kingdom

10:15 am
Lectern 2

RHBMP-2/DBM VS. ICBG FOR SECONDARY ALVEOLAR BONE GRAFTS IN PATIENTS WITH CLP: REVIEW OF 501 CASES
Presenter: Daniel J. Gould, MD
Authors: Daniel J. Gould, MD, PhD. (3 min), Artur Fahradyan, MD, Fan Liang, MD, William Magee III, MD, DDS, Mark M. Urata, MD, DDS, Jeffrey A. Hammoudeh, MD, DDS
Institution: Keck School of Medicine of USC

10:18 am
Discussion (10 min)

10:28 am
Lectern 1

THE SKOOG LIP REPAIR FOR UNILATERAL CLEFT LIP DEFORMITY - EXPERIENCE FROM 443 CASES
Presenter: Daniel Nowinski M.D. (3 min)
Authors: Daniel Nowinski M.D., Alberto Falk-Delgado, Anna Lang, Malin Hakelius, Valdemar Skoog, Daniel Nowinski
Institution: Department of surgical sciences, plastic surgery, Uppsala university

10:31 am
Lectern 2

CONVERSION FURLLOW PALATOPLASTY AND THE USE OF PRE-OPERATIVE VIDEO NASENDOSCOPY
Presenter: Alison Kaye, MD (3min)
Authors: Alison Kaye, MD, Meghan Tracy, BA/BS, Kathryn Dent, MS, CCC-SLP
Institution: Childrens Mercy Kansas City

10:34 am
Lectern 1

TEMPOROPARIETAL FASCIA FLAP FOR GIANT ORONASAL FISTULA RECONSTRUCTION IN CLEFT PATIENTS
Presenter: Enrique Olivares M.D. (3 min)
Authors: Enrique Olivares M.D., Saturnino Santos, Laura Larraga-Nieto, Natalia Munoz-Ollero, Beatriz Gonzalez-Meli, Maria Jose Cimadevilla
Institution: Universidad Europea. Hospital Universitario Nino Jesus. Madrid. Spain

10:37 am
Lectern 2

PREOPERATIVE AND POSTOPERATIVE POLYSOMNOGRAM IN CHILDREN UNDER WENT PRIMARY PALATOPLASTY
Presenter: Diana Carolina Gomez Prada, M.D. (3 min)
Authors: Diana Carolina Gomez Prada, M.D., José Rolando Prada, Patricia Panqueva
Institution: Hospital Infantil Universitario de San José
10:40 am
Lectern 1

261
SECONDARY PHARYNGOPLASTY: MANAGEMENT AND OUTCOMES
Presenter: John H. Pang M.D. (3 min)
Authors: John H. Pang M.D., Xiao Zhu, Isaac James, Jack E. Brooker, Jesse A. Goldstein, Joseph E. Losee
Institution: University of Pittsburgh Department of Plastic Surgery

10:43 am
Lectern 2

262
ACELLULAR DERMAL MATRIX IN PRIMARY PALATOPLASTY: A PROSPECTIVE TRIAL
Presenter: Alexander Govshievich M.D. (3 min)
Authors: Salah Aldekhayel, Alexander Govshievich, Mirko Gilardino
Institution: McGill University

10:46 am  Discussion (10 min)

10:56 am
Lectern 1

263
SPEECH OUTCOMES IN FURLOW PALATOPLASTY VERSUS STRAIGHT-LINE INTRAVELAR VELOPLASTY
Presenter: Laura A. Monson, MD (3 min)
Authors: Tara Braun, Edward P. Buchanan, MD, Kristina D. Wilson, PhD, SLP, Ellen E. Moore, MA, SLP, Cristina Hernandez, RN, Laura A. Monson, MD
Institution: Baylor College of Medicine

10:59 am
Lectern 2

264
IMPLEMENTATION OF THE ICHOM ESTÁNDAR SET AT MID-SIZED CLEFT CENTER IN THE UNITED STATES
Presenter: Peter G. Bittar, B.S., B.A. (3 min)
Authors: Peter G. Bittar, B.S., B.A., Alexander C Allori, MD, MPH, Pedro E Santiago, DMD, Anna R Carlson, MD, Jeffrey R Marcus, MD
Institution: Duke University

11:02 am
Lectern 1

265
LONG TERM OUTCOMES IN INTERMEDIATE TIP RHINOPLASTY IN THE UNILATERAL CLEFT PATIENT
Presenter: Julia Ayeroff M.D. (6 min)
Authors: Julia Ayeroff M.D., Elizabeth J. Volpicelli, Thomas Willson, Sam Asanad, Rachel S. Mandelbaum, James P. Bradley, Justine C. Lee
Institution: University of California Los Angeles

11:08 am
Lectern 2

266
THE PUSHBACK PHARYNGEAL FLAP: A 17-YEAR EXPERIENCE
Presenter: Robert M Menard M.D., FACS. (6 min)
Authors: Robert M Menard M.D., FACS., Danielle H Rochlin MD, Paul A Mittermiller MD, Clifford C Sheckter MD
Institution: Division of Plastic and Reconstructive Surgery, Stanford University School of Medicine, Stanford, CA, USA; Northern California Kaiser Permanente Craniofacial Clinic, Department of Plastic Surgery, Kaiser Permanente Santa Clara, Santa Clara, CA, USA

11:14 am  Discussion (10 min)
ROOM A

11:30 – 12:30 pm  GENERAL SESSION 4

Panel: “Interaction between Craniofacial Surgery and Orthodontics”
Moderator: Juan Carlos Rodríguez, M.D. (Argentina)
Speakers: Jeff Marcus, M.D., Pedro Santiago, D.D.S.
Orthognatic Surgery: Roberto Flores, M.D., Shetye Pradip, D.D.S.
Severe Midface Deficiency: David Dunaway, M.D., Alvaro Figueroa, D.D.S.
E-POSTERS
10:30-10:45 AM  
**e-poster 1**  
**Computer 1**  
**Three-Dimensional Assessment of Zygomatic Malunion Using Computed Tomography in Patients with Cheek**  
Presenter: Yung Ki Lee  
Authors: Yung Ki Lee, Baek Kyu Kim, Rong Min Baek, Chang Sik Pak  
Institution: Kyung Hee University Hospital

10:30-10:45 AM  
**e-poster 2**  
**Computer 2**  
**Use of Orthodontics for Maxilla-Mandibular Fixation in Pediatric Mandibular Fracture: A Case Series**  
Presenter: Renata S Maricevich  
Authors: Wendy Chen, Lindsay A Schuster, Brian S Martin, Renata S Maricevich  
Institution: University of Pittsburgh Medical Center

10:30-10:45 AM  
**e-poster 3**  
**Computer 3**  
**Reconstruction of auricular defect after human bite using advanced auricular skin cartilage flap cov**  
Presenter: Ji Min Kim  
Authors: Ji Min Kim, Min Gyu Park  
Institution: Seoul St. Mary Hospital

10:30-10:45 AM  
**e-poster 4**  
**Computer 4**  
**Towards inclusion of parental assessments in nonsynostotic plagiocephaly research**  
Presenter: Peter J. Taub  
Authors: Hope Weissler, Peter J. Taub  
Institution: Icahn School of Medicine at Mount Sinai

10:30-10:45 AM  
**e-poster 5**  
**Computer 5**  
**Management of Frontal Sinus Fractures: A 12-Year Experience at a Level 1 Trauma Center**  
Presenter: Ian C. Hoppe  
Authors: Ian C. Hoppe, Jerette Schultz, Jordan Halsey, Edward S. Lee, Mark S. Granick  
Institution: Rutgers, New Jersey Medical School

10:30-10:45 AM  
**e-poster 6**  
**Computer 6**  
**A Safe and Effective Method to Transfer Pedicle Vessels in Free Flap Reconstruction**  
Presenter: Hyo Young Kim  
Authors: Hyung Suk Yi, Hyo Young Kim, Hong Il Kim, Jin Hyung Park  
Institution: Kosin University College of Medicine

10:30-10:45 AM  
**e-poster 7**  
**Computer 7**  
**Regression of Cephalic Index following Endoscopic Repair of Sagittal Synostosis**  
Presenter: Naidoo, Sybill D  
Authors: Pickersgill, Nicholas A, Skolnick, Gary B, Naidoo, Sybill D, Woo, Albert S, Smyth, Matthew D, Patel, Kamlesh B  
Institution: Washington University School of Medicine in St. Louis
10:30-10:45 AM  e-poster 8  
Computer 8  
Is there an epidemiological shift in non-syndromic, single-suture craniosynostosis? 
Results from a literature review and a national survey of craniofacial and neurosurgeons.  
Presenter:  Michael Golinko  
Authors:  Alex Han, Michael Golinko  
Institution:  University of Arkansas for Medical Sciences  

10:30-10:45 AM  e-poster 9  
Computer 9  
Use of in situ simulation to improve management of massive hemorrhage during craniofacial surgery  
Presenter:  Sumit Das  
Authors:  Sumit Das, Arnwald Choi  
Institution:  Oxford Craniofacial Unit, UK  

10:30-10:45 AM  e-poster 10  
Computer 10  
Surgical treatment of head and neck Ewing Sarcoma of the French population.  
Presenter:  Natalie Kadlub  
Authors:  kadlub, Bouaoud Jebrane, Belhous Kahina, Galmiche Louise, Bolle Stephanie, Couloigner Vincent, Arnaud Picard, Le Deley Marie-Cecile, Cozic Nathalie, Gaspar Nathalie  
Institution:  Necker-Enfants-Malades-Paris Descartes  

10:30-10:45 AM  e-poster 11  
Computer 11  
Vermillion only cross-lip flap for treatment of whistle deformity in secondary bilateral cleft lip repair  
Presenter:  Robert Menard  
Authors:  Danielle Rochlin, Clifford Sheckter, Paul Mittermiller, Robert Menard  
Institution:  Stanford  

10:30-10:45 AM  e-poster 12  
Computer 12  
Airway management through submittal derivation. Safe and easily reproduced alternative for patients with complex facial trauma.  
Presenter:  García Cano Eugenio  
Authors:  Malagón Hidalgo Héctor Omar. García Cano Eugenio, González Magaña Fernando, Vilchis López Roberto, Fentanes Vera Adriana, Ayala Ugalde Fernan Alejandra  
Institution:  Instituto de Seguridad Social del Estado de México y Municipios  

10:30-10:45 AM  e-poster 13  
Computer 13  
Intermaxillary Fixation Efficacy With Titanium Screws In Patients With Facial Fractures And Dentofacial Deformities  
Presenter:  García Cano Eugenio  
Authors:  Malagón Hidalgo Héctor Omar, García Cano Eugenio, González Magaña Fernando, González Chapa Diego Raúl  
Institution:  Instituto de Seguridad Social del Estado de México y Municipios  

10:45-11:00 AM  e-poster 14  
Computer 14  
Correction of severe hypertelorbitism with nasoethmoid encephalocele during infancy  
Presenter:  Amir Elbarbary  
Authors:  Amir Elbarbary, Walid Abdel Ghany, Assem Abdel Latif  
Institution:  Plastic Surgery, Ain-Shams University  

---
10:45-11:00 AM  e-poster 15  
**Computer 2**  
**Reossification of anterior skull base with pericranial flaps after frontofacial monobloc**  
Presenter: Anne Morice  
Authors: Anne Morice, G. Paternoster, A. Ostertag, S. James, RH Khonsari, E. Arnaud  
Institution: Hospital Necker craniofacial unit

10:45-11:00 AM  e-poster 16  
**Computer 3**  
**Evolution of Spring-Assisted Calvarial Expansion for Bicoronal Craniosynostosis**  
Presenter: Lisa Renee David  
Authors: Christopher Runyan, Kyle Steven Gabrick, Jungwon Genevieve Park, Edreca Allison Thompson, Daniel Couture, Lisa Renee David  
Institution: Wake Forest Baptist Medical Center

10:45-11:00 AM  e-poster 17  
**Computer 4**  
**Skoog Primary Periosteoplasty versus Secondary Alveolar Bone Grafting in Unilateral Cleft and Alveolus: Long-term Effects on Alveolar Bone Formation and Maxillary Growth**  
Presenter: Malin Hakelius  
Authors: Fatima Jabbari, Malin Hakelius, Andreas Thor, Erika Reiser, Valdemar Skoog, Daniel Nowinski  
Institution: Dept of Plastic- and Maxillofacial Surgery, Uppsala University Hospital, Sweden

10:45-11:00 AM  e-poster 18  
**Computer 5**  
**Comparison Between Oximetry and Polysomnography in Identifying Airway Obstruction in Infants with Robin Sequence**  
Presenter: Rafael Galli  
Authors: Rafael Galli, Mirko Gilardino, Lucie Lessard, Aurore Côté  
Institution: McGill University

10:45-11:00 AM  e-poster 19  
**Computer 6**  
**Posterior Vault Distraction Osteogenesis: Rates of Ossification in Bone Gaps after Consolidation**  
Presenter: Sanjay Naran  
Authors: Sanjay Naran, Daniel Mazzaferro, Natasja ter Maaten, Ari Wes, Scott Bartlett, Jesse Taylor  
Institution: University of Pennsylvania

10:45-11:00 AM  e-poster 20  
**Computer 7**  
**Cost Effectiveness Analysis of Demineralized Bone Matrix and rhBMP-2 vs. autologus iliac crest grafting in Alveolar Cleft Patients**  
Presenter: Sagar Mehta  
Authors: Sagar Mehta, Barbu Gociman, Faizi Siddiqi, Duane Yamashiro, Ross Blagg, James Willcockson  
Institution: University of Utah
10:45-11:00 AM  
**e-poster 21**  
**Computer 8**  
**The Clinical Effect of Surgery-first Approach for Correcting Adult Skeletal Class Three Malocclusion**  
Presenter: Guoping WU  
Authors: Guoping WU, Cunlong Li, Wensong Shangguan, Bin Zhou, Hao Dai, Wenwen Zhang, Shu Wang  
Institution: The Affiliated Friendship Plastic Surgery Hospital of Nanjing Medical University

10:45-11:00 AM  
**e-poster 22**  
**Computer 9**  
**Abandoning the Supraorbital Bandeau: A Single-Piece Reconstruction for Anterior Craniosynostoses**  
Presenter: Jose Castro Garcia, MD  
Authors: Jeffrey Fearnor, Kanlaya Ditthakasem, MNS, RN, Jose Castro Garcia, MD, Morley Herbert, PhD  
Institution: The Craniofacial Center, Dallas

10:45-11:00 AM  
**e-poster 23**  
**Computer 10**  
**20 years using springs in craniofacial surgery**  
Presenter: Giovanni Maltese  
Authors: Peter Tarnow, Giovanni Maltese, Madiha Bhatti Softeland, Robert Olsson, Lars Kolby  
Institution: Dept of Plastic Surgery, Sahlgrenska University Hospital, Gothenburg, Sweden

10:45-11:00 AM  
**e-poster 24**  
**Computer 11**  
**Lip reconstruction in animal and human bite injuries: a holistic approach**  
Presenter: Jordi Puente-Espel  
Authors: Jordi Puente-Espel, Maria del Carmen Moreno Alvarez  
Institution: Hospital General de Mexico Dr Eduardo Liceaga

10:45-11:00 AM  
**e-poster 25**  
**Computer 12**  
**Four-year Experience In Treating Syndromic Craniosynostosis In Eastern Indonesia**  
Presenter: Indri Lakhsmi Putri  
Authors: Magda Hutagalung, Lobredia Zarasade, Indri Lakhsmi Putri  
Institution: Department of Plastic Reconstructive and Aesthetic Surgery, Airlangga University

4:00-4:15 PM  
**e-poster 26**  
**Computer 1**  
**Treatment for the jaw deformity of hemifacial microsomia Pruzansky grade I**  
Presenter: Takayuki Okumoto  
Authors: Takayuki Okumoto, Yoshikazu Inoue, Takanori Miyajima, Suguru Kondo  
Institution: Department of Plastic and Reconstructive Surgery, Fujita Health University School of

4:00-4:15 PM  
**e-poster 27**  
**Computer 2**  
**Craniotomy of the fused sagittal suture over the superior sagittal sinus is a safe procedure**  
Presenter: Sara Fischer  
Authors: Sara Fischer, Maltese, Giovanni, Olsson, Robert, Tarnow, Peter, Kolby Lars  
Institution: Department of Plastic Surgery, Institute for Clinical Sciences, Gothenburg University
E-Posters

Wednesday, October 25th, 2017
Foyer Grand Coral Ballroom

4:00-4:15 PM  e-poster 28
Computer 3  SLCA22A5 Mutation in a Patient with Systemic Primary Carnitine Deficiency and cleft palate - Successful perioperative management
Presenter: Ching -Wei Hu
Authors: Lun-Jou Lo, Ching -Wei Hu, Ching-Hsuan Hu, Yah-Huei Wu-Chou
Institution: Department of Plastic and Reconstructive Surgery, Chang Gung Memorial Hospital

4:00-4:15 PM  e-poster 29
Computer 4  Repeated Honeycomb Posterior Cranial Vault Distraction for Pfeiffer Syndrome: a case report
Presenter: Yorikatsu Watanabe
Authors: Yorikatsu Watanabe, Mayu Takahashi, Tanetaka Akizuki, Shigeru Nishizawa
Institution: Department of Plastic and Reconstructive Surgery, Tokyo Metropolitan Police

4:00-4:15 PM  e-poster 30
Computer 5  Preoperative Alveolar Segment Position as a Predictor of Gingivoperiosteoplasty in Patients with Unilateral Cleft Lip and Palate
Presenter: Jonathan M. Bekisz
Authors: Jonathan M. Bekisz, Elcin Esenlik, Travis Gibson, Court B. Cutting, Barry H. Grayson, Roberto L. Flores
Institution: New York University School of Medicine

4:00-4:15 PM  e-poster 31
Computer 6  Pediatric Cleft Surgery in Global Health: A Scoping Review
Presenter: Kimia Sorouri
Authors: Kimia Sorouri, Karen Y Chung, Tanishq Suryavanshi, David M Fisher
Institution: University of Toronto

4:00-4:15 PM  e-poster 32
Computer 7  An Impossible Case Made Possible
Presenter: Ingrid Ganske, MD, MPA
Authors: Ingrid Ganske, MD, MPA, Noah Schulz, MSME, Katie Livingston, ME, Susan Goobie, MD, FRCPC, John G. Meara, MD, DMD, MBA, Mark Proctor, MD, Peter Weinstock, MD, PhD
Institution: Boston Childrens Hospital

4:00-4:15 PM  e-poster 33
Computer 8  The Influence of Congenital versus Acquired Facial Palsy on Dynamic Facial Reanimation in Children
Presenter: Phuong D. Nguyen
Authors: Phuong D. Nguyen, Kristin Faschan, Daniel M. Mazzafarre, Tami Koneczny, Oksana A. Jackson, Scott P. Bartlett
Institution: Childrens Hospital of Philadelphia
4:00-4:15 PM  e-poster 34
Computer 9
Unsolvable cases  Association of dynamic osteotomies in the treatment of the cloverleaf skull
Presenter: Alessandra dos Santos Silva
Authors: Alessandra dos Santos Silva, Anderson Rodrigo Souza, Vera Lucia Nocchi Cardim
Institution: Beneficência Portuguesa de São Paulo

4:00-4:15 PM  e-poster 35
Computer 10
Intracranial hypertension and neuropsychomotor development in craniosynostosis - preliminary study
Presenter: Anderson Rodrigo Souza
Authors: Anderson Rodrigo Souza, Alessandra dos Santos Silva, Denise Gonçalves Cunha Coutinho, Vera Lucia Nocchi Cardim
Institution: Beneficência Portuguesa de São Paulo

4:00-4:15 PM  e-poster 36
Computer 11
Dynamic osteotomies in mature skulls
Presenter: Georgia Maria de Carvalho Perez
Authors: Vera Lucia Nocchi Cardim, Georgia Maria de Carvalho Perez, Alessandra dos Santos Silva, Anderson Rodrigo Souza
Institution: Beneficência Portuguesa de São Paulo

4:00-4:15 PM  e-poster 37
Computer 12
Assessment of Cranioplasty and Flap Techniques Utilized for Composite Scalp/Skull Reconstruction
Presenter: James D Vargo MD
Authors: James D Vargo MD, Wojciech Przylecki MD, Paul Camarata MD, Brian T Andrews MD
Institution: University of Kansas Medical Center

4:00-4:15 PM  e-poster 38
Computer 13
The role of the Craniofacial orthodontists for treatment of patients with cleft lip and palate
Presenter: Suguru Kondo
Authors: Suguru Kondo, Yoshimi Sano, Takayuki Okumoto
Institution: Department of Orthodontics and Pedodontics, Plastic and Reconstructive Surgery

4:15-4:30 PM  e-poster 39
Computer 1
Postoperative evaluation of sagittal synostosis after spring-assisted surgery using 3D imaging
Presenter: Ruggero Bevilaqua
Authors: Ruggero Bevilaqua, Lars Kolby, Peter Tarnow, Giovanni Maltese
Institution: Plastic Surgery Department, Sahlgrenska University Hospital, Gteborg, Sweden
E-Posters
Wednesday, October 25th, 2017
Foyer Grand Coral Ballroom

4:15-4:30 PM  
**e-poster 40**
**A Breakthrough in Maxillary LeFort II Fracture Reconstruction: A Case Series of Open Reduction and Internal Fixation Combined with Augmentation Rhinoplasty Using Autologous Materials**
Presenter: Indri Lakhsmi Putri
Authors: Indri Lakhsmi Putri, Wilma Agustina
Institution: Department of Plastic Reconstructive and Aesthetic Surgery, Airlangga University

4:15-4:30 PM  
**e-poster 41**
**An interim report of five trigonocephaly cases after eight years followup from cranioplasty**
Presenter: Yuuki Uchida
Authors: Yuuki Uchida, Atsuomi Saiga, Nobuyuki Mitsukawa, Kaneshige Satoh
Institution: St. Mary's Hospital

4:15-4:30 PM  
**e-poster 42**
**Transfusion Trends in Fronto-Orbital Advancement - An Analysis of 700 cases in the UK National Craniofacial Service**
Presenter: Mr Chris Parks
Authors: Mr Christian Duncan, Mr Chris Parks, Dr Ed Carver, Dr Russell Evans, Dr David De Beers, Dr M. Stanley
Institution: Alder Hey Childrens Hospital NHS Foundation Trust

4:15-4:30 PM  
**e-poster 43**
**Craniofacial Necrotizing fasciitis in an infant**
Presenter: Malagón Hidalgo Héctor Omar
Authors: Perez Dosal Marcia Rosario, Malagón Hidalgo Héctor Omar, García Cano Eugenio, Reynoso López Rocío Evangelina, González Chapa Diego Raúl
Institution: Instituto Nacional de Pediatría

4:15-4:30 PM  
**e-poster 44**
**A Five Step Simplification of the Fisher Anatomical Subunit Cleft Lip Repair**
Presenter: Anna Carlson, MD
Authors: Anna Carlson, MD, Kate Buretta, MD, Jeffrey Marcus, MD
Institution: Duke University Hospital Division of Plastic Surgery

4:15-4:30 PM  
**e-poster 45**
**Navigation-Assisted Endoscopic Orbital Decompression for refractory Graves’ orbitopathy**
Presenter: Hu, Ching hsuan
Authors: Hu, Ching hsuan, Chia-Hsuan Tsai, Yu hsuan Hsieh, Chun-Hao Pan, Chein-Tzung Chen
Institution: Chang Gung Memorial hospital

4:15-4:30 PM  
**e-poster 46**
**The Rare Association of Cleft Lip/Palate and Wilms Tumor**
Presenter: Alison Kaye, MD
Authors: Elizabeth Theng, Alison Kaye, MD
Institution: University of Missouri-Kansas City School of Medicine
4:15-4:30 PM  
**e-poster 47**  
**Computer 9**  
**Correlation of soft-tissue to bony landmarks during Le Fort I orthognathic surgery**  
**Presenter:** Derek Steinbacher, MD  
**Authors:** Cynthia Tsay, Derek Steinbacher, MD  
**Institution:** Yale School of Medicine

4:15-4:30 PM  
**e-poster 48**  
**Computer 10**  
**Wolf-Hirschhorn Syndrome with Cleft Lip/Palate: Patient Presentation and Management**  
**Presenter:** Shikhar Tomur  
**Authors:** Shikhar Tomur, Alison Kaye  
**Institution:** University of Missouri-Kansas City School of Medicine

4:15-4:30 PM  
**e-poster 49**  
**Computer 11**  
**The association between surgical complications and the POSSUM score in head and neck reconstruction**  
**Presenter:** Yohjiroh Makino  
**Authors:** Yohjiroh Makino, Katsuhiro Ishida, Keita Kishi, Takeshi Miyawaki  
**Institution:** The Jikei University school of Medicine

4:15-4:30 PM  
**e-poster 50**  
**Computer 12**  
**A Craniometric Analysis of Cranial Base and Cranial Vault Differences in Patients with Metopic Craniosynostosis**  
**Presenter:** Sanjay Naran  
**Authors:** Sanjay Naran, Danial Mazzaferro, Ari Wes, Arastoo Vossough, Scott Bartlett, Jesse Taylor  
**Institution:** University of Pennsylvania
9:30-9:45 AM  
**Computer 1**  
e-poster 51  
**More Than Meets The Eye: The Effect of Intercanthal Distance on Perception of Beauty and Personality**  
Presenter: Sanjay Naran  
Authors: Sanjay Naran, Ari Wes, Daniel Mazzaferro, Scott Bartlett, Jesse Taylor  
Institution: University of Pennsylvania

9:30-9:45 AM  
**Computer 2**  
e-poster 52  
**Minor Suture Fusion in Syndromic Craniosynostosis**  
Presenter: Christopher Runyan  
Authors: Christopher Runyan, Wen Xu, David Staffenberg, Roberto Flores, Jesse Taylor  
Institution: Wake Forest Baptist Medical Center

9:30-9:45 AM  
**Computer 3**  
e-poster 53  
**Speech Outcomes Following Midface Distraction in Syndromic Craniosynostosis**  
Presenter: James Sun  
Authors: James Sun, Ari M Wes, Sanjay Naran, Daniel Mazzaferro, Scott P Bartlett, Jesse A Taylor  
Institution: Childrens Hospital of Philadelphia

9:30-9:45 AM  
**Computer 4**  
e-poster 54  
**Cleft Repair in Pierre Robin Sequence Following Mandibular Distraction Osteogenesis**  
Presenter: Matthew B. Lorenzo, BA  
Authors: Matthew B. Lorenzo, BA, Ari M. Wes, BA, Daniel Mazzaferro, MBA, Sanjay Naran, MD,,Scott P. Bartlett, MD, Jesse A. Taylor, MD  
Institution: The Childrens Hospital of Philadelphia

9:30-9:45 AM  
**Computer 5**  
e-poster 55  
**Nasal Root Deviation in Unicoronal Craniosynostosis: A Craniometric Analysis of Early and Late Postoperative Outcomes**  
Presenter: Ari Wes  
Authors: Jason Wink,Ari Wes, Dan Mazzaferro, Sanjay Naran, Scott Bartlett, Jesse Taylor  
Institution: Children’s Hospital of Philadelphia

9:30-9:45 AM  
**Computer 6**  
e-poster 56  
**Craniosynostosis Surgery: Does Hospital Case-Volume Impact Outcomes or Cost?**  
Presenter: Rachel Mckenna  
Authors: Rachel Mckenna, Ari Wes, Dan Mazzaferro, Sanjay Naran, Scott Bartlett, Jesse Taylor  
Institution: Children's Hospital of Philadelphia

9:30-9:45 AM  
**Computer 7**  
e-poster 57  
**Analysis of Practice Settings for Craniofacial Surgery Fellowship Graduates in North America**  
Presenter: Christopher Runyan  
Authors: Christopher Runyan, Jason Silvestre, Jesse Taylor  
Institution: Wake Forest Baptist Medical Center
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Poster No.</th>
<th>Title</th>
<th>Presenter(s)</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
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<tr>
<td>9:30-9:45 AM</td>
<td>Computer 8</td>
<td>e-poster 58</td>
<td>A craniometric analysis of the posterior cranial base after posterior vault distraction</td>
<td>Matthew B. Lorenzo</td>
<td>Matthew B. Lorenzo, Netanja ter Maaten, Daniel M. Mazzaferro, Sanjay Naran, Scott P. Bartlett, Jesse A. Taylor</td>
<td>The Children's Hospital of Philadelphia</td>
</tr>
<tr>
<td>9:30-9:45 AM</td>
<td>Computer 9</td>
<td>e-poster 59</td>
<td>Contribution of the periosteum mechanical properties in the mandibular distraction osteogenesis</td>
<td>Kadlub Natacha</td>
<td>Debelmas Alexandre, Picard Arnaud, Diner Patrick Antoine, Nedjar Boumediene, Kadlub Natacha, Boisson Jean</td>
<td>APHP</td>
</tr>
<tr>
<td>9:30-9:45 AM</td>
<td>Computer 10</td>
<td>e-poster 60</td>
<td>Le Fort III in Pycnodysostosis: particularities of management in two cases</td>
<td>Erick Arnaud</td>
<td>Erick Arnaud, Hossein Khonsari, Rodrigo Kouji, Sam Haber, Eva Galliani, Arnaud Picard</td>
<td>Hospital Necker craniofacial unit</td>
</tr>
<tr>
<td>9:30-9:45 AM</td>
<td>Computer 11</td>
<td>e-poster 61</td>
<td>Orthognathic surgery and rhinoplasty: Should they be simultaneous or staged?</td>
<td>Alexander Sun</td>
<td>Alexander Sun, Derek Steinbacher</td>
<td>Yale School of Medicine</td>
</tr>
<tr>
<td>9:30-9:45 AM</td>
<td>Computer 12</td>
<td>e-poster 62</td>
<td>Facial bipartition under the age of two for severe craniofacial clefting</td>
<td>Bryant A Toth, M.D.</td>
<td>Bryant A Toth, M.D.</td>
<td>Ucsf-Benioff Childrens Hospital, Oakland, California</td>
</tr>
<tr>
<td>9:30-9:45 AM</td>
<td>Computer 13</td>
<td>e-poster 63</td>
<td>Minimal Invasive Le Fort III Osteotomy</td>
<td>Herman Jr VERCROYSE</td>
<td>Herman Jr Vercruysse, Ramon Sieira-Gil, Alfonso Navarro, Eloy Garcia-Diez</td>
<td>Department of Pediatric Surgery, Hospital Sant Joan de Déu, Barcelona, Spain</td>
</tr>
<tr>
<td>9:45-10:00 AM</td>
<td>Computer 1</td>
<td>e-poster 64</td>
<td>Results of spring-assisted cranioplasty in patients with scaphocephaly.</td>
<td>Leonid Satanin</td>
<td>Leonid Satanin, Ivan Teterin, Andrey Evteev, Alexander Ivanov, Alexander Sakharov, Vitaly Roginsky, Natalia Lemeneva</td>
<td>Moscow Burdenko Neurosurgery Institute, Russia</td>
</tr>
</tbody>
</table>
9:45-10:00 AM  e-poster 65  
**Computer 2**  
**Vertebral anomalies in craniofacial microsomia: systematic review and large multicenter cohort study**  
Presenter: Maarten Koudstaal  
Authors: Maarten Koudstaal, Ruben Renkema, Linda Caron, David Dunaway, Chris Forrest, Bonnie Padwa  
Institution: Erasmus MC

9:45-10:00 AM  e-poster 66  
**Computer 3**  
**Comparison of Cognitive Developmental Outcomes in Late Presentation Metopic Craniosynostosis Repair**  
Presenter: Stefani C Fontana  
Authors: Stefani C Fontana, Skylar Bellinger, Debora B Daniels, Paul J Camarata, Brian T Andrews  
Institution: University of Kansas Medical Center, Department of Plastic Surgery

9:45-10:00 AM  e-poster 67  
**Computer 4**  
**Role of computed tomography before and after nonsyndromic craniosynostosis surgery: a systematic review.**  
Presenter: Nayif Alnaif  
Authors: Nayif Alnaif, Alamri, Abdulrahman, Zhou, Mingsha, Galli, Rafeal, Gilardino, Mirko  
Institution: McGill University

9:45-10:00 AM  e-poster 68  
**Computer 5**  
**Craniometaphyseal Dysplasia**  
Presenter: Tatiana Palomino Consuegra  
Authors: Tatiana Palomino Consuegra, Rolando Prada Madrid, Diana Marcela Diaz López, Diana Carolina Gómez Prada  
Institution: Hospital Infantil Universitario de San José, Bogotá, Colombia

9:45-10:00 AM  e-poster 69  
**Computer 6**  
**Changes in Skull Dysmorphology with Age in Unilateral Coronal Synostosis**  
Presenter: Kirun Baweja, BS  
Authors: Kirun Baweja, BS, Alexander H. Sun, BS, Rajendra Sawh-Martinez, MD, John A. Persing, MD  
Institution: Yale School of Medicine

9:45-10:00 AM  e-poster 70  
**Computer 7**  
**The changing indication for correction of metopic synostosis: the Rotterdam experience.**  
Presenter: Hansje Bredero-Boelhouwer  
Authors: Martijn Cornelissen, Hansje Bredero-Boelhouwer, Irene Mathijsen, Sarah Versnel  
Institution: Erasmus University Medical Center, Rotterdam, the Netherlands

9:45-10:00 AM  e-poster 71  
**Computer 8**  
**Engineering novel hydrogel adhesives for cranioplasty procedures**  
Presenter: John G Meara  
Authors: Ehsan Shirzaei Sani, Ehsan Shirzaei Sani, Seyed Hossein Bassir, Roberto Portillo Lara, John G Meara, Giuseppe Intini, Nasim Annabi  
Institution: Harvard School of Dental Medicine
E-Posters
Thursday, October 26th, 2017
Foyer Grand Coral Ballroom

9:45-10:00 AM  e-poster 72
Computer 9  Progress in automated intracranial volume quantification from 3D Photography
Presenter: Antonio R. Porras
Authors: Liyun Tu, Antonio R. Porras, Deki Tsering, Robert Keating, Albert Oh, Marius George Linguraru, Scott R. Ensel, Beatriz Paniagua, Andinet Enquobahire, Gary F. Rogers
Institution: The Sheikh Zayed Institute for Pediatric Surgical Innovation, Childrens National

9:45-10:00 AM  e-poster 73
Computer 10  Computer Simulations for Prediction of Sagittal Spring Cranioplasty
Presenter: Alessandro Borghi
Authors: Alessandro Borghi, Naiara Rodriguez Florez, Gregory James, Silvia Schievano, David Dunaway, Owase Jeelani
Institution: UCL GOS Institute of Child Health and Great Ormond Street Hospital

9:45-10:00 AM  e-poster 74
Computer 11  Understanding Patients Perspectives of Barriers to Accessing Care
Presenter: Meghan McCullough, MD
Authors: Meghan McCullough, MD, Allyn Ausländer, MPH, Caroline Yao, MS, MD, Jordan Swanson, MD, William P Magee III, DDS, MD
Institution: University of Southern California

9:45-10:00 AM  e-poster 75
Computer 12  The International Family Study: A Global Collaboration Advancing Genetic and Epidemiological Research
Presenter: Allyn Ausländer, MPH
Authors: Allyn Ausländer, MPH, Freddy Brindopke, Stephanie Ly, MPH, Pedro Sanchez, MD, Jane Figueiredo, MD, William P. Magee III, DDS, MD
Institution: University of Southern California
E-Posters

Friday, October 27th, 2017
Foyer Grand Coral Ballroom

10:00-10:15 AM  Computer 1  e-poster 76  Evaluation of Bilateral Cleft Lip Patients Using Anthropometry in a Multicultural Setting  Presenter: William P Magee III, DDS, MD  Authors: William P Magee III, DDS, MD, Michelle Carriere, MD, Caroline Yao, MS, MD, Meghan McCullough, MD, Allyn Ausländer, MPH  Institution: University of Southern California

10:00-10:15 AM  Computer 2  e-poster 77  Refinements in secondary cleft lip and nose reconstruction: the simultaneous use of multiple grafts efficiently restores normal anatomical features reducing the reoperation rate  Presenter: Francesco Gargano  Authors: Francesco Gargano, Silvio Podda  Institution: St Josephs Hospital

10:00-10:15 AM  Computer 3  e-poster 78  Limited evidence in the literature for mandibular catch-up growth in Pierre Robin Sequence  Presenter: Chad A Purnell  Authors: Chad A Purnell, Lindsay E Janes, Julian L Klosowiak, Arun K Gosain, Elbert E. Vaca  Institution: Lurie Childrens Hospital of Northwestern Feinberg School of Medicine

10:00-10:15 AM  Computer 4  e-poster 79  Modified Le Fort III Osteotomy - Minimal Incisions  Presenter: Hospital Infantil  Authors: Hospital Infantil, Jose Rolando Prada Madrid  Institution: Hospital Infantil Universitario de San Jose

10:00-10:15 AM  Computer 5  e-poster 80  Analysis of Acute Adverse Postoperative Outcomes after Craniosynostosis Surgery: Identifying Predictors of ICU care  Presenter: Jonathan Lee  Authors: Jonathan Lee, Shirley M Dong, Jonathan Y Lee, Mandeep Tamber, Joseph E Losee, Jesse A Goldstein  Institution: University of Pittsburgh Medical Center

10:00-10:15 AM  Computer 6  e-poster 81  Optic Nerve Sheath Diameter measured by MR imaging and Computed Tomography in Craniosynostosis  Presenter: Mostafa Haredy  Authors: Mostafa Haredy, Giulio Zuccoli, Mandeep Tamber, Ken Kanwal Nischal, Jesse Goldstein  Institution: Children Hospital of Pittsburgh

10:00-10:15 AM  Computer 7  e-poster 82  Outcomes in Craniofacial Surgery - Making the intangible quantifiable and comparable  Presenter: Justine O'Hara  Authors: Justine O'Hara, Monteregge, S, Chua, D, Rooney, N, Dunaway, D  Institution: Great Ormond Street Hospital for Sick Children
10:00-10:15 AM  e-poster 83  
**Aesthetic Refinements in Patients with Hemi-facial Asymmetry**  
Presenter: Juan Martin Chavanne  
Authors: Juan Martin Chavanne, Diego Steinberg, Cristian Schauvinhold  
Institution: WCF Bs.As Craniofacial Center Austral University Hospital

10:00-10:15 AM  e-poster 84  
**Platelet Rich Plasma Enhance the Angiogenesis of Adipose-Derived Stem Cells in Ischemic Hind Limb Model**  
Presenter: Chia-Fang, Chen  
Authors: Chia-Fang, Chen, Han-Tsang, Liao  
Institution: Dept of Plastic & 65286; Reconstructive Surgery, Chang Gung Memorial Hospital

10:00-10:15 AM  e-poster 85  
**3D Printed Bioactive Ceramic Scaffold Osteoconduction Across Critical-Sized Mandibular Defects**  
Presenter: Christopher D. Lopez  
Authors: Christopher D. Lopez, Lukasz Witek, MSci, PhD, J. Rodrigo Diaz-Siso, MD, Roberto L. Flores, MD, Eduardo D. Rodriguez, MD DDS, Paulo G. Coelho, DDS PhD  
Institution: Icahn School of Medicine at Mount Sinai, New York NY

10:00-10:15 AM  e-poster 86  
**Uncertainties in modelling soft tissue prediction in orthognathic surgery**  
Presenter: Paul Knoops  
Authors: Paul Knoops, Alessandro Borghi, Federica Ruggerio, Alberto Bianchi, Silvia Schievano, David Dunaway  
Institution: UCL GOS Institute of Child Health and Great Ormond Street Hospital for Children

10:00-10:15 AM  e-poster 87  
**Temporoparietal fascial flap for infected temporooccipital cerebrospinal fluid fistulae reconstruction**  
Presenter: Enrique Olivares  
Authors: Enrique Olivares, Jorge Bonastre, Carlos Corrales, Beatriz Gonzalez-Meli, Javier Enriquez-de-Salamanca  
Institution: Universidad Europea and Hospital Universitario Nino Jesus

10:00-10:15 AM  e-poster 88  
**Mixed Dentition Cleft/Craniofacial Patients: Incidental Head and Neck Findings on Cone Beam CT**  
Presenter: Wendy Chen  
Authors: Giancarlos Santos, Wendy Chen, Joici Job, Joseph E Losee, Barton Branstetter, Lindsay A Schuster  
Institution: Childrens Hospital of Pittsburgh

10:15-10:30 AM  e-poster 89  
**Spring use in Craniofacial Surgery - Indications and Contraindications**  
Presenter: Noor Jeelani  
Authors: Noor Jeelani, R Hayward, G James, I Rather, J OHara, J Ong, D Dunaway  
Institution: GOSH UCL
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<td>Edward H Davidson MA (Cantab) MBBS</td>
<td>Edward H Davidson MA (Cantab) MBBS, Michael P Grant MD PhD, Anand R Kumar MD</td>
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<td>Virtual Custom Helmet Design for Sagittal Strip Craniectomy</td>
<td>Christopher Derderian</td>
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<td>Analysis of prognostic and risk factors for mortality of facial bone fractures</td>
<td>Pofang Wang</td>
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<td>Le Fort 1 Distraction Osteogenesis in Cleft Patients Using an Adaptable Device and Virtual Planning</td>
<td>Sean M. Hill, MD</td>
<td>Sarah A. Frommer, MD/PhD, Raymond J Harshbarger, MD, Patrick K. Kelley, MD, Adriana C. Da Silveira, DDS, MS, PhD, Sean M. Hill, MD</td>
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<td>To Admit or Not to Admit - That is the Cleft Lip Question</td>
<td>Artur Fah redyan</td>
<td>Artur Fah redyan, Izabela Galdyn, MD, Beina Azadgoli, BS, Mark M. Urata, MD, DDS, Stacey H. Francis,MD</td>
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<td>Ruptured Internal Maxillary Artery Pseudoaneurysm Following Le Fort I Osteotomy: Case Report, Systematic Literature Review, and Evidence-Based Guidelines</td>
<td>Catey Garland</td>
<td>Michael Bykowski, Amber Hill, William Tobler, Catey Garland, Joseph E Losee, Jesse A Goldstein</td>
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**Computer 9**  
**A Single Lab Test to Aid Pierre Robin Sequence Severity Diagnosis**  
Presenter: Artur Fahradyan  
Authors: Artur Fahradyan, Beina Azadgoli, BS, Mark M. Urata, MD, DDS, Stacey H. Francis, MD  
Institution: Childrens Hospital Los Angeles

10:15-10:30 AM  
e-poster 98  
**Computer 10**  
**Differences in Infraorbital Foramen Position in Unilateral Cleft Lip and Palate**  
Presenter: Shikhar Tomur  
Authors: Shikhar Tomur, Alison Kaye  
Institution: University of Missouri-Kansas City School of Medicine

10:15-10:30 AM  
e-poster 99  
**Computer 11**  
**Spring-assisted cranioplasty for sagittal craniosynostosis: a subtype analysis**  
Presenter: Jungwon Genevieve Park  
Authors: Christopher Runyan, Jungwon Genevieve Park, Christopher Michael Runyan, Kyle Gabrick, Edreca Allison Thompson, Daniel Couture, Lisa Renee David  
Institution: Wake Forest

10:15-10:30 AM  
e-poster 125  
**Computer 12**  
**An Analysis of 53 Craniofacial Center Websites: Craniosynostosis Families are Being Given Inaccurate, Vague, and Inconsistent Information**  
Presenter: Jeffrey Goldstein  
Authors: Jeffrey A. Goldstein MD, Luke Boone MD, Vivian Buchanan PA-C, Michael Lypka DMD/MD, Amanda Johnson APRN  
Institution: Childrens’ Mercy Hospital Kansas City, Univ. of Missouri-KC

4:00-4:15 PM  
e-poster 100  
**Computer 1**  
**Craniofacial Surgical Planning with Augmentation Reality: Accuracy of Linear 3D Cephalometric Measurements on 3D Holograms**  
Presenter: Kihyun Cho, MD, MSc  
Authors: Kihyun Cho, MD, MSc, Jeff Yanof, PhD, Graham S Schwarz, MD, FACS, Karl West, MS, Jennifer McBride, PhD, Francis A. Papay, MD  
Institution: Plastic Surgery, Cleveland Clinic, Cleveland, Ohio, USA

4:00-4:15 PM  
e-poster 101  
**Computer 2**  
**Strategies for Immediate Reconstruction of Disfiguring High-flow Vascular Malformations of the Lips**  
Presenter: Dov Charles Goldenberg  
Authors: Dov Charles Goldenberg, Esther Choi, Vania Kharmandayan, Tatiana Moura, Rolf Gemperli  
Institution: Division of Plastic Surgery - Hospital das Clinicas, University of Sao Paulo Medical

4:00-4:15 PM  
e-poster 102  
**Computer 3**  
**Median and oblique facial clefts: a series of 13 cases**  
Presenter: Takanori Miyajima  
Authors: Takanori Miyajima, Takayuki Okumoto, Yoshikazu Inoue  
Institution: Fujita Health university
E-Posters
Friday, October 27th, 2017
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4:00-4:15 PM  e-poster 103
Presenter: Brad Gandolfi
Authors: Brad Gandolfi, Meaghan L Barr, Michael R DeLong, MD, Neha Datta, MD, Thomas D Willson, MD, Reza Jarrahy, MD
Institution: UCLA Division of Craniofacial Surgery

4:00-4:15 PM  e-poster 104
Computer 5  Peptide Amphiphile Nanofibers with BMP-2 Promote Bone Regeneration with Attenuated Inflammation
Presenter: Reena Bakshi
Authors: Reena Bakshi, Akishige Hokugo, Mark McClendon, Samuel Stupp, Reza Jarrahy
Institution: University of California, Los Angeles

4:00-4:15 PM  e-poster 105
Computer 6  The Importance of Using a Comprehensive Multidisciplinary Cleft Registry to Record a Complete and Detail Patient Characteristics
Presenter: Gadia Ayundya
Authors: Prasetyanugraheni Kreshanti, Gadia Ayundya
Institution: Plastic Surgery Div, Cleft Craniofacial Center, Cipto Mangunkusumo Hospital

4:00-4:15 PM  e-poster 106
Computer 7  Posterior Cranial Distraction Osteogenesis Including the Foramen Magnum: A Comparative Analysis
Presenter: Sean M. Hill, MD
Authors: Sarah Frommer, Raymond J Harshbarger, MD, Sean M. Hill, MD, Patrick K. Kelley, MD, Timothy M., George, MD
Institution: Dell Childrens Medical Center

4:00-4:15 PM  e-poster 107
Computer 8  Safety Outcomes after Endoscopic versus Open Repair of Metopic Craniosynostosis
Presenter: Laura A. Monson, MD
Authors: Tara L. Braun, BS, Bradley S. Eisemann, MD, Shola Olorunnipa, MD, Edward P. Buchanan, MD, David Y. Khechoyan, MD, Robert C. Dauser, MD, Sandi K. Lam, MD, Laura A. Monson, MD
Institution: Baylor College of Medicine

4:00-4:15 PM  e-poster 108
Computer 9  Outcomes in Furlow Palatoplasty for Secondary Speech Surgery
Presenter: Laura A. Monson, MD
Authors: Tara L. Braun, BS, Edward P. Buchanan, MD, David Y. Khechoyan, MD, Kristina D. Wilson, PhD, SLP, Ellen E. Moore, MA, SLP, Cristina Hernandez, RN, Laura A. Monson, MD
Institution: Baylor College of Medicine
4:00-4:15 PM  
**Computer 10**  
**e-poster 109**  
**Impaired EEG-SEP finding in the affected hemisphere in patients with posterior plagiocephaly**  
**Presenter:** Maiju Härmä  
**Authors:** Maiju Härmä, Leena Lauronen, Junnu Leikola, Jyri Huikki, Anne Saarikko  
**Institution:** Department of plastic surgery, Helsinki University Hospital and University of Helsinki

4:00-4:15 PM  
**Computer 11**  
**e-poster 110**  
**Molecular Mechanisms of Craniosynostosis**  
**Presenter:** Derek Steinbacher  
**Authors:** V. P. Eswarakumar, Miles Pfaff, Derek Steinbacher  
**Institution:** Yale School of Medicine

4:00-4:15 PM  
**Computer 12**  
**e-poster 111**  
**Dipyridamole-Coated 3D-Printed Bioactive Ceramic Scaffolds Regenerate Alveolar Cleft Defects: A Pilot Study**  
**Presenter:** Christopher D. Lopez BA  
**Authors:** Christopher D. Lopez BA, Jonathan M. Bekisz BA, Lukasz Witek, MSci PhD, Roberto L. Flores MD, Andrea Torroni MD PhD, Paulo G. Coelho DDS PhD  
**Institution:** Icahn School of Medicine at Mount Sinai, New York NY

4:00-4:15 PM  
**Computer 13**  
**e-poster 112**  
**Long Term follow-up of the Surgical Hypercorrection Technique for Trigonocephaly**  
**Presenter:** Katelyn Bennett  
**Authors:** Katelyn Bennett, Fan Liang, Kavitha Ranganathan, Karin Murasko, Christian Vercler, Steven Buchman  
**Institution:** University of Michigan

4:15-4:30 PM  
**Computer 1**  
**e-poster 113**  
**Quantification of Aesthetic Changes to the Temporal Region Through Three-dimensional Volumetric Photo Analysis**  
**Presenter:** Christian Vercler  
**Authors:** Christian Vercler, Russell Ettinger, Riaz Nabi, Fan Liang, Aditya Pandey, Steven Buchman  
**Institution:** University of Michigan

4:15-4:30 PM  
**Computer 2**  
**e-poster 114**  
**Neonatal Mandibular Distraction Osteogenesis Reduces Cleft Palate Width and Lengthens Soft Palate, Influencing Palatoplasty in Patients With Pierre Robin Sequence**  
**Presenter:** Marcus Collares  
**Authors:** Marcus Collares, Daniele W Duarte, Davi S Sobral, Ciro P Portinho, Gustavo J Faller, Mariana M Fraga  
**Institution:** University of Rio Grande do Sul - Brazil

4:15-4:30 PM  
**Computer 3**  
**e-poster 115**  
**Median Cleft Lip - Surgical Management Protocol Based on 18 Operated Cases**  
**Presenter:** Jorge Morán  
**Authors:** Marcus Collares, Jorge Morán, Mariana M Fraga, Ciro P Portinho, João Maximiliano Martins, Jorge Hoyos  
**Institution:** University of Rio Grande do Sul - Brazil
4:15-4:30 PM  
**e-poster 116**  
**Computer 4**  
Scaphocephaly Part III: Cranial Perimeter and Intracranial Hypertension in Sagittal Synostosis with and without Secondary Coronal Synostosis  
Presenter: Joseph Michienzi  
Authors: Joseph Michienzi, Eric Arnaud, Federico Di Rocco, Dominique Renier, Daniel Marchac, Alexandre Marchac  
Institution: Hopital Necker-Enfants Malades Paris, France

4:15-4:30 PM  
**e-poster 117**  
**Computer 5**  
Diagnosis And Early Intervention Of Velofaring Insufficiency After Primary Palatoplasty In Patients Interdisciplinary Treated In Fisulab (Rehabilitation Center for children with cleft lip and palate, Bogotá Colombia).  
Presenter: Diana Marcela Diaz Lopez  
Authors: Diana Marcela Diaz Lopez, Rolando Prada, Juan Carlos Zambrano, Pilar Echeverry  
Institution: Fundación Universitaria De Ciencias De La Salud

4:15-4:30 PM  
**e-poster 118**  
**Computer 6**  
Approaching Transfusion Free Surgery for Posterior Vault Reconstruction for Sagittal Synostosis  
Presenter: Jane Kugler  
Authors: Jane Kugler, Amy Beethe, MD, Jason Miller, MD, Rachel Spitznagel, MD  
Institution: Children's Hospital and Medical Center, and the University of Nebraska Medical

4:15-4:30 PM  
**e-poster 119**  
**Computer 7**  
Distraction-induced TMJ Ankylosis: Comprehensive Management  
Presenter: Kevin Xiao  
Authors: Michael Lypka, Kevin Xiao  
Institution: Children's Mercy Hospital

4:15-4:30 PM  
**e-poster 120**  
**Computer 8**  
Obstructive Sleep Apnea Treatment: Structural expansion of the upper airway.  
Presenter: Romulo Guerrero  
Authors: Romulo Guerrero, Adriana Guerrero  
Institution: Hospital Metropolitano de Quito

4:15-4:30 PM  
**e-poster 121**  
**Computer 9**  
Refined Concepts to Improve Aesthetic Outcomes in Microtia Ear Reconstruction: Personal experiences based on 100 cases  
Presenter: Akihiko Oyama Md, Phd  
Authors: Akihiko Oyama Md, Phd, Emi Funayama Md, Phd, Yuhei Yamamoto MD,PhD  
Institution: Faculty of Medicine, Hokkaido University

4:15-4:30 PM  
**e-poster 122**  
**Computer 10**  
Factors Associated with Unplanned Re-Operation in Pediatric Plastic Surgery  
Presenter: Dra. Renata Maricevich  
Authors: Kevin T Jubbal, Dmitry Zavlin, Edward P Buchanan, Larry H Hollier, Jr Dra. Renata Maricevich  
Institution: Loma Linda University
4:15-4:30 PM  
e-poster 123  
**Computer 11**  
A 42 year experience with autogenous cranioplasty.  
Presenter: S Anthony Wolfe  
Authors: S Anthony Wolfe  
Institution: Chief, Division of Plastic Surgery Miami Children’s Health System

4:15-4:30 PM  
e-poster 124  
**Computer 12**  
Ex nihilo aliquid fit: Something is made where there is nothing  
Presenter: S Anthony Wolfe  
Authors: S Anthony Wolfe  
Institution: Chief, Division of Plastic Surgery Miami Children’s Health System
Platinum Sponsor

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