Monday, September 16, 2019
ISCFS PRE-SYMPOSIUM - PROGRAMME

08H00-08H05 | PRESIDENT WELCOME
Eric Arnaud (France)

INNOVATIVE CRANIOPLASTIES PANEL
08H05-09H25 | Amphitheater Lavoisier
Chairs: Chad Gordon (United States), Paul Manson (United States)

08H10-08H18 | SYM1.1 - INTRODUCTION TO MULTIDISCIPLINARY PANEL AND BURGEONING FIELD OF NEUROPLASTIC SURGERY
Chad Gordon (United States)

08H18-08H26 | SYM1.2 - PEDIATRIC CRANIOPLASTY AND CONSIDERATIONS FOR TEMPORAL DEFORMITIES
Anand Kumar (United States)

08H26-08H34 | SYM1.3 - ADULT CRANIOPLASTY AND OPTIMIZING OUTCOMES WITH CUSTOMIZED CRANIAL IMPLANTS
Chad Gordon (United States)

08H34-08H42 | SYM1.4 - SINGLE-STAGE CRANIOPLASTY RECONSTRUCTION FOR SKULL/brains TUMORS USING CUSTOMIZED CRANIAL IMPLANTS
Michael Lim (United States)

08H42-08H50 | SYM1.5 - CUSTOMIZED CRANIAL IMPLANTS WITH EMBEDDED NEUROMODULATION DEVICES
Stan Anderson (United States)

08H50-08H58 | SYM1.6 - COMPUTER-ASSISTED/ROBOT-ASSISTED TECHNOLOGIES FOR CRANIAL IMPLANT MODIFICATION AND CRANIOPLASTY
Mehran Armand (United States)

08H58-09H06 | SYM1.7 - NON-SURGICAL SOLUTIONS FOR POST-CRANIOTOMY TEMPORAL DEFORMITIES
Mary Sheu (United States)

09H06-09H25 | DISCUSSION
ORTHOGNATIC/ORTHODONTICS PANEL
09H25-10H30 | Amphitheater Lavoisier
Chairs: Pedro Santiago (United States), Catherine Tomat (France)

09H25-09H33 | SYM2.1 - Alvaro Figueroa (United States)
09H33-09H41 | SYM2.2 - Chris Laspos (Cyprus)
09H41-09H49 | SYM2.3 - Mariana Sabás (Argentina)
09H49-09H57 | SYM2.4 - Jong Woo Choi (Republic Of Korea)
09H57-10H05 | SYM2.5 - Catherine Lee (Singapore)
10H05-10H13 | SYM2.6 - Pedro Santiago (United States)
10H13-10H30 | DISCUSSION
10H30-11H00 – Coffee break

SYMPOSIUM LECTURES
11H05-13H05 | Amphitheater Lavoisier
Chairs: Jim Bradley (United States), Fernando Molina (Mexico)
(12 min lecture + 8 min discussion)

11H05-11H25 | SYM3 - THE HISTORY OF CRANIOFACIAL SURGERY IN JAPAN, WITH LONG TERM RESULTS
Keisuke Imai (Japan)

11H25-11H45 | SYM4 - THE SYNDROMIC ADOLESCENCE PATIENT WITH SEVERE SEQUELAE AFTER EARLY IN LIFE CF SURGERY: ALTERNATIVES OF TREATMENT
Fernando Molina (Mexico)

11H45-12H05 | SYM5 - THE NOSE IN ORBITAL HYPERTELORISM: REVIEW OF A 44-YEAR EXPERIENCE BY A SINGLE SURGEON
S. Anthony Wolfe (United States)

12H05-12H25 | SYM6 - MICROVASCULAR FREE TISSUE TRANSFER IN PEDIATRIC CRANIOFACIAL RECONSTRUCTION
Frédéric Kolb (France)

12H25-12H45 | SYM7 - CRANIOVERTEBRAL JUNCTION AND CHIARI IN FACIOCRANIOSYNOSTOSIS
Giuseppe Cinalli (Italy)

12H45-13H05 | SYM8 - WHERE ARE THEY NOW? FACT VERSUS BELIEF IN CRANIOFACIAL SURGERY
Richard Hayward (United Kingdom), Barry Jones (United Kingdom)
13H05-14H15 – Lunch

**MONOBLOC**

14H15-16H05 / Amphitheater Lavoisier
Chairs: Kenneth Salyer (United States), Giovanna Paternoster (France)

14H15-14H25 | SYM9.1 - INTRODUCTION TO MONOBLOC
Scott Bartlett (United States)

14H25-14H45 | SYM9.2 - MONOBLOC: FROM TESSIER TO DISTRACTION
S. Anthony Wolfe (United States)

14H45-15H05 | SYM9.3 - IS THERE STILL A PLACE FOR THE "TRUE MONOBLOC"
Fernando Molina (Mexico)

15H05-15H23 | SYM9.4 - SIMULTANEOUS MONOBLOC AND MANDIBULAR DISTRACTION
Irene Mathijssen (Netherlands)

15H23-15H41 | SYM9.5 - BRAZILIAN EXPERIENCE FROM SOBRAPAR
Cassio Raposo de Amaral (Brazil)

15H41-16H05 | SYM9.6 - A REVIEW OF 139 CASES OF FRONTOFACIAL DISTRACTION IN SYNDROMIC CRANIOSYNOSTOSIS OVER 18 YEARS
David James Dunaway (United Kingdom)

16H05-16H45 – Coffee break

**MONOBLOC**

16H45-17H25 / Amphitheater Lavoisier
Chairs: Scott Bartlett (United States), David James Dunaway (United Kingdom)

16H45-17H05 | SYM9.7 - THE “NO MONOBLOC” STRATEGY
David David (Australia)

17H05-17H25 | SYM9.8 - COMPLICATIONS OF MONOBLOC
Jim Bradley (United States)

**NECKER EXPERIENCE OF MONOBLOC ABOUT 150 CASES**

17H25-19H05 / Amphitheater Lavoisier
Chairs: David David (Australia), Irene Mathijssen (Netherlands)

17H25-17H33 | THE NECKER TECHNIQUE FOR MONOBLOC
Eric Arnaud (France)
17H33-17H43 | SYM9.9B1 - QUANTITATIVE FACIAL AND ORBITAL ASSESSMENTS OF FRONTO-FACIAL MONOBLOC ADVANCEMENT WITH INTERNAL DISTRACTION IN FACIOCRANIOSYNOSTOSES
Hossein Khonsari (France)

17H43-17H48 | SYM9.9B2 - TEETH /OCCLUSION RESULTS AFTER MONOBLOC
Hossein Khonsari (France)

17H48-17H54 | SYM9.9C - COGNITIVE ASSESSMENT IN SCHOOL AGE CROUZON AND PFEIFFER AFTER EARLY FRONTO-FACIAL MONOBLOC
Giovanna Paternoster (France)

17H54-18H02 | SYM9.9D - ICU PROCEDURES FOR MONOBLOC
Philippe Meyer (France)

18H02-18H12 | SYM9.9E1 - AIRWAY ASSESSMENTS AFTER FRONTOFACIAL MONOBLOC ADVANCEMENT WITH DISTRACTION (FFMBA) : ABOUT 145 CASES IN FACIOCRANIOSYNOSTOTIC CHILDREN
Eric Arnaud (France)

18H12-18H17 | SYM9.9E2 - SECONDARY LE FORT 3 AFTER MONOBLOC
Samer Haber (France)

18H17-18H22 | SYM9.9E3 - COMPLICATIONS OF MONOBLOC
Eric Arnaud (France)

18H22-18H27 | SYM9.9F - TRANSFACIAL EXTERNAL TRACTION AND INTERNAL DISTRACTION FOR YOUNG AND SEVERE FACIOCRANIOSYNOSTOSES: THE VERY EARLY MONOBLOC
Eric Arnaud (France)

18H27-19H05 | DISCUSSION
Tuesday, September 17, 2019
ISCFS CONGRESS – PROGRAMME DAY 1

LECTURES
08H00-09H20 | Amphitheater Lavoisier

08H00-08H12 | WELCOME WORD
Eric Arnaud (France)

08H12-08H52 | LEC1 - FERNANDO ORTIZ MONASTERIO LECTURE : OFFICERS, SURGEONS AND GENTLEMEN: A SURGICAL PERSPECTIVE ON THE WATERLOO 1815 CAMPAIGN
Benoit Lengelé (Belgium)

08H54-09H03 | LEC2 - DISTRACTION ODYSSEY IN PARIS: LA PETITE HISTOIRE
Patrick Diner (France)

09H05-09H17 | LEC3 - DRUG DESIGN FOR TREATING FGFR3 MUTATION
Laurence Legeai-Mallet (France)

PANEL 1 - NEUROSURGERY
09H20-10H30 | Amphitheater Lavoisier
Chairs: John Persing (United States), Giovanna Paternoster (France)

09H20-09H50 | PAN1.1 - NEUROSURGICAL MISTAKES TO AVOID IN CF SURGERY (PART I)
Jim Goodrich (United States)

09H55-10H15 | PAN1.2 - NEUROSURGICAL MISTAKES TO AVOID IN CF SURGERY (PART II: CSF)
Christian Sainte-Rose (Paris)

10H15-10H30 | PAN1.3 - CHIARI MALFORMATION IN COMPLEX CRANIOSYNOSTOSIS AND SYRINGOMYELIA: EPIDEMIOLOGY, MANAGEMENT AND SURGICAL ATTITUDE
Giovanna Paternoster (France)

10H30-11H00 - Coffee break
SESSION 1: NEUROSURGERY
11H05-13H15 | Amphitheater Lavoisier
Chairs: Jay Jayamoyan (United Kingdom), Marie-Lise Van Veelen (Netherlands)

11H05-11H08 | S1-01 - UPDATING CEPHALIC INDEX NORMS IN A DIVERSE URBAN PATIENT POPULATION AFTER THE BACK TO SLEEP CAMPAIGN: AN EPIDEMIOLOGIC STUDY
Joyce Kathryn McIntyre (United States)

11H08-11H11 | S1-02 - INTRACRANIAL HYPERTENSION AND CORTICAL THICKNESS IN SYNDROMIC CRANIOSYNOSTOSIS
Alexander T. Wilson (Netherlands)

11H11-11H14 | S1-03 - INTRACRANIAL HYPERTENSION AND SLEEP-DISORDERED BREATHING IN CHILDREN WITH CRANIOSYNOSTOSIS
Omar Iqbal (United Kingdom)

11H14-11H22 | DISCUSSION

11H22-11H25 | S1-04 - PREDICTIVE FACTORS OF FRONTAL LOBE CHANGES FOLLOWING FRONTOFACIAL SURGERY
Gregory James (United Kingdom)

11H25-11H31 | S1-05 - HYDROCEPHALUS AND ITS TREATMENT IN CROUZON'S SYNDROME
Jochem Spoor (Netherlands)

11H31-11H37 | S1-06 - ABNORMAL VENOUS DRAINAGE IN COMPLEX CRANIOSYNOSTOSIS MAY CAUSE VENTRICULOMEGALY
Sandro Benichi (France)

11H37-11H46 | DISCUSSION

11H46-11H49 | S1-07 - COHORT VALIDATION OF OPTICAL COHERENCE TOMOGRAPHY TO DETECT ELEVATED INTRACRANIAL PRESSURE IN CHILDREN WITH CRANIOSYNOSTOSIS
Jordan Swanson (United States)

11H49-11H55 | S1-08 - NEAR INFRA-RED CEREBRAL OXIMETRY IN DIAGNOSTIC OF CRANIOCEREBRAL DISPROPORTION
Vadim Ivanov (Russian Federation)

11H55-11H58 | S1-09 - PREVALENCE OF ELEVATED INTRACRANIAL PRESSURE BY SUTURE TYPE DETECTED BY OPTICAL COHERENCE TOMOGRAPHY IN CHILDREN WITH CRANIOSYNOSTOSIS
Anthony Azzolini (United States)

11H58-12H06 | DISCUSSION
12H06-12H09 | S1-10 - CLINICAL AND RADIOLOGIC CORRELATION WITH MRI TRACTOGRAPHY IN PRIMARY CRANIOSYNOSTOSIS WITH CRANIAL DECOMPRESSION  
Diana Carolina Gomez Prada (Colombia)

12H09-12H15 | S1-11 - CEREBRAL PERFUSION IN SIMPLE CRANIOSYNOSTOSIS USING ARTERIAL SPIN LABELLING MRI.  
Yohan Caudron (France)

12H15-12H21 | DISCUSSION

12H21-12H24 | S1-12 - A REPORT OF THE WORLD'S FIRST SEVEN CASES: FIRST IN HUMAN EXPERIENCE WITH INTEGRATION OF HYDROCEPHALUS SHUNT DEVICE WITHIN A CUSTOMIZED CRANIAL IMPLANT  
Chad Gordon, DO, FACS (United States)

12H24-12H27 | S1-13 - 18-MONTH OUTCOME REPORT FOR FIRST-IN-HUMAN NEUROMODULATION DEVICE INTEGRATED WITHIN CUSTOMIZED CRANIAL IMPLANT  
Gabriel Santiago, MD (United States)

12H27-12H32 | DISCUSSION

12H32-12H35 | S1-14 - BLINDNESS IN CRANIOSYNOSTOSIS AND THE ROLE OF OPTIC NERVE CANAL DECOMPRESSION  
Jullyana Heinen Peixoto (Brazil)

12H35-12H38 | S1-15 - CRANIAL VAULT EXPANSION WITH THE SPLIT BONE FLAP TECHNIQUE IN SHUNT RELATED CRANIOSYNOSTOSIS  
Pierre-Aurélien Beuriat (France)

12H38-12H41 | S1-16 - JOURNEY THROUGH REPAIR OF FRONTAL SKULL BASE ENCEPHALOCELES IN AFRICA  
Shailendra Ashok Magdum (United Kingdom)

12H41-12H44 | S1-17 - ENDOSCOPIEC ENDONASAL APPROACH FOR THE RESECTION OF NASAL DERMOID CYSTS WITH INTRACRANIAL EXTENSION  
Brian Pan (United States)

12H44-12H54 | DISCUSSION

12H54-12H57 | S1-18 - NOVEL TRANSPALPEBRAL "EYELID" APPROACH FOR SUPRAORBITAL FRONTAL CRANIOTOMY AND ACCESS TO THE ANTERIOR CRANIAL FOSSA  
Kerry A. Morrison (United States)

12H57-13H00 | S1-19 - ORBITAL LYMPHATIC MALFORMATIONS IN CHILDREN. TRANSCRANIAL APPROACH RESULTS IN SEVERE CASES. OUR EXPERIENCE.  
Elena M Gomez (Spain)
13H00-13H06 | S1-20 - SEPARATION OF CRANIOPAGUS TWINS – PHILOSOPHY, TECHNIQUES AND INNOVATION; LESSONS LEARNT FROM THE GOSH EXPERIENCE OF 3 SETS OF TWINS
Noor ul Owase Jeelani (United Kingdom)

13H06-13H15 | DISCUSSION

13H15-14H15 - Lunch & eposter presentations

SESSION 2: POSTERIOR VAULT DISTRACTION
14H15-15H55 | Amphitheater Lavoisier
Chairs: Irene Mathijssen (Netherlands), Syril James (France)

14H15-14H18 | S2-01 - COMPLICATIONS FOLLOWING POSTERIOR CRANIAL VAULT DISTRACTION IN SYNDROMIC CRANIOSYNOSTOSIS
Pierre Lapaine (Canada)

14H18-14H21 | S2-02 - IS A CONSOLIDATION PERIOD NECESSARY IN POSTERIOR CRANIAL VAULT DISTRACTION?
Greg Thomas (United Kingdom)

14H21-14H24 | S4A-03 - A TRANSFUSION REGIMEN WITH SAME-DONOR PACKED RED BLOOD CELLS REDUCES EXPOSURE TO MULTIPLE BLOOD DONORS IN CRANIOSYNOSTOSIS SURGERY
Peter Frykholm (Sweden)

14H24-14H32 | DISCUSSION

14H32-14H38 | S2-04 - COMPARISON OF OPERATIVE PARAMETERS AND VOLUME EXPANSION FOLLOWING THREE TECHNIQUES FOR SYNDROMIC POSTERIOR CRANIAL VAULT EXPANSION
Dr Richard Hopper (United States)

14H38-14H44 | S2-05 - VOLUMETRIC CHANGES OF GREY MATTER, WHITE MATTER AND CEREBROSPINAL FLUID FOLLOWING 87 POSTERIOR VAULT EXPANSION CASES IN PATIENTS WITH CRANIOSYNOSTOSIS
William Breakey (United Kingdom)

14H44-14H50 | S2-06 - VENTRICULAR SHUNT COMPLICATIONS IN PATIENTS UNDERGOING POSTERIOR VAULT DISTRACTION OSTEOGENESIS
Melissa Lanning (United States)

14H50-14H58 | DISCUSSION

14H58-15H01 | S2-07 - EFFECTIVENESS OF DISTRACTOR-MEDIATED AND BRAIN-MEDIATED POSTERIOR VAULT EXPANSION IN COMPLEX CRANIOSYNOSTOSIS
Jonathan Black (United States)
15H01-15H04 | S2-08 - POSTERIOR CALVARIAL DISTRACTION – A SAFE AND EFFECTIVE FIRST-LINE TREATMENT FOR CHILDREN WITH COMPLEX CRANIOSYNOSTOSIS AND CHIARI MALFORMATION
Jonathan Jones (United Kingdom)

15H04-15H07 | S2-09 - FORAMEN MAGNUM DECOMPRESSION PERFORMED SIMULTANEOUSLY WITH POSTERIOR CRANIAL VAULT DISTRACTION
Yuzo Komuro (Japan)

15H15-15H18 | S2-10 - 3D VOLUMETRIC CHANGES AND RADIOGRAPHIC MARKERS OF OPTIMAL POSTERIOR VAULT EXPANSION WITH DISTRACTION OSTEOGENESIS
Meena Thatikunta (United States)

15H18-15H21 | S2-11 - ENDOSCOPIC SPRING-MEDIATED DISTRACTION FOR UNILAMBDOID CRANIOSYNOSTOSIS
Robert Menard (United States)

15H21-15H26 | DISCUSSION

15H26-15H29 | S2-12 - REPEAT POSTERIOR CRANIAL VAULT DISTRACTION OSTEOGENESIS: INDICATIONS AND MODIFICATION OF TECHNIQUE
Ian C Hoppe (United States)

15H29-15H32 | S2-13 - PERIOPERATIVE MORBIDITY OF REPEAT POSTERIOR CRANIAL VAULT DISTRACTION OSTEOGENESIS – A SINGLE CENTER EXPERIENCE
Patrick A Gerety (United States)

15H32-15H38 | S2-14 - QUANTITATIVE OUTCOMES IN POSTERIOR AND TRANSVERSE CRANIAL VAULT DISTRACTION FOR CRANIOSYNOSTOSIS
Christina Buckley (United States)

15H55-16H25 - Coffee break

PANEL 2 - TRANSPLANTATION
16H25-17H15 | Amphitheater Lavoisier
Chairs: Joe McCathy (United States), Laurent Lantieri (France)

16H25-16H33 | PAN2.1 - PREPARATION OF ALLOTRANSPLANTATION
Patrik Lassus (Finland)

16H33-16H37 | PAN2.2 - IMMERSIVE-TOUCH VIRTUAL REALITY FOR PREPARATION OF ALLOTRANSPLANTATION
Pravin Patel (United States)
16H37-16H47 | PAN2.3 - COMPLICATIONS OF ALLOTRANSPLANTATION
Laurent Lantieri (France)

16H47-16H57 | PAN2.4 - BIOENGINEERING HUMAN FACE GRAFTS: FROM VCA TO THE NEW FRONTIER OF VCE
Benoit Lengelé (Belgium)

16H57-17H07 | PAN2.5 - ALTERNATIVES TO ALLOTRANSPLANTATION
Frédéric Kolb (France)

SESSION 3: FACIOCRANIOSYNOSTOSIS – PART I
17H15-19H25 / Amphitheater Lavoisier
Chairs: Scott Bartlett (United States), Kaneshige Satoh (Japan)

17H15-17H18 | S3-01 - MANAGEMENT OF LARGE SINUS PERICRANII WITH CROUZON’S SYNDROME
Han Tao (China)

17H18-17H21 | S3-02 - CRANIAL FOSSA DEVELOPMENT IN DIFFERING SUBTYPES OF CROUZON SYNDROME
Xiaona Lu (United States)

17H21-17H24 | S3-03 - IS THERE A ROLE FOR PROPHYLACTIC POSTERIOR FOSSA DECOMPRESSION FOR CHIARI MALFORMATION IN SYNDROMIC CRANIOSYNOSTOSIS?
Enrico Ghizoni (Brazil)

17H24-17H31 | DISCUSSION

17H31-17H34 | S3-04 - EARLY CRANIOFACIAL GROWTH IN SYNDROMIC SYNOSTOSIS: IMPLICATIONS FOR ADVANCEMENT PROCEDURES
Kathryn Preston (United States)

17H34-17H37| S12-10 - THE EFFECTS OF FACIAL BIPARTITION DISTRACTION SURGERY ON THE DENTAL ARCH IN APERT SYNDROME
Amir Rezvani (United Kingdom)

17H37-17H40 | S3-06 - SURFING THE BONE PRESSURE WAVE: CORRELATION OF CSF RATIO WITH CRANIAL DEFECT HEALING IN PFEIFFER PATIENTS REQUIRING EARLY INTERVENTION
Ezgi Mercan (United States)

17H40-17H47 | DISCUSSION

17H47-17H53 | S3-07 - NONSYNDROMIC CRANIOSYNOSTOSIS AND INCREASED RISK FOR NEURODEVELOPMENTAL DISORDERS
Karin K Tillman (Sweden)
17H53-17H56 | S3-08 - SPEECH OUTCOMES FOLLOWING MIDFACE DISTRACTION IN SYNDROMIC CRANIOSYNOSTOSIS
Ari Wes (United States)

17H56-18H04 | DISCUSSION

18H04-18H07 | S3-10 - LEFORT II OSTEOTOMY WITH ZYGOMATIC REPOSITIONING RESULTS IN SIGNIFICANT NASOPHARYNGEAL AIRWAY EXPANSION IN PATIENTS WITH APERT SYNDROME
Nicole Kurnik (United States)

18H07-18H10 | S3-11 - COMPARISON OF LE FORT II DISTRACTION WITH ZYGOMATIC REPOSITIONING VERSUS LE FORT III DISTRACTION: IS THERE A DIFFERENCE IN SAFETY AND OUTCOME?
Chad A Purnell (United States)

18H10-18H18 | DISCUSSION

18H18-18H21 | S3-12 - COMPLICATIONS OF SUBCRANIAL LEFORT III AND MONOBLOC DISTRACTION, WITH AND WITHOUT FACIAL BIPARTITION, USING RIGID EXTERNAL DISTRACTORS
Andrew Colin Weeks (United States)

18H21-18H24 | S3-13 - SURGICAL OUTCOMES OF COMBINED LEFORT III AND LEFORT I OSTEOTOMY: IMMEDIATE POST-SURGERY AND AT ONE YEAR FOLLOW UP
Olivia Yue (United States)

18H24-18H27 | S3-14 - THE MODIFIED LE FORT III OSTEOTOMY: A VERSATILE PROCEDURE FOR FINAL ORBITAL CORRECTION IN SYNDROMIC MID-FACIAL DEFICIENCY
Andrew Alistair Heggie (Australia)

18H27-18H35 | DISCUSSION

18H35-18H38 | S3-15 - OBSTRUCTIVE SLEEP APNEA CAUSED BY MIDFACIAL HYPOPLASIA IN SYNDROMIC CRANIOSYNOSTOSIS: COMPARISON BETWEEN CROUZON SYNDROME AND APERT SYNDROME
Nobuyuki Mitsukawa (Japan)

18H38-18H44 | S3-16 - MONOBLOC DISTRACTION WITH FACIAL BIPARTITION: OUTCOMES OF SIMULTANEOUS FACIAL MOVEMENT COMPARED TO MONOBLOC DISTRACTION OR FACIAL BIPARTITION ALONE
Naikhoba Munabi (United States)

18H44-18H47 | S3-17 - FRONTO-FACIAL MONOBLOC ADVANCEMENT WITH DISTRACTION TREATS OBSTRUCTIVE SLEEP APNEA IN FACIOCRANIOSYNOSTOSES: PROSPECTIVE ASSESSMENT OF 109 CASES
Eric Arnaud (France)
18H47-18H50 | S3-18 - SECONDARY FACIAL ADVANCEMENT AFTER MONOBLOC IN SYNDROMIC CRANIOSYNOSTOSES: A PROSPECTIVE ASSESSMENT OF 12 CASES
Samer Elia Haber (France)

18H50-18H53 | S12-11 - THE EFFECT OF FACIAL BIPARTITION DISTRACTION ON UPPER AIRWAY VOLUME AND OBSTRUCTIVE SLEEP APNOEA IN APERT’S PATIENTS
Chloé Rolland (United Kingdom)

18H53-19H25 | DISCUSSION
SESSION 4A: GENERALITIES IN CRANIOSYNOSTOSIS – PART I

08H00-10H30 | Amphitheater Lavoisier
Chairs: Steven Wall (United Kingdom), Giovanna Paternoster (France)

08H00-08H03 | S4A-01 - CLINICAL AND GENETIC CHARACTERIZATION OF CRANIOSYNOSTOSIS; A RETROSPECTIVE COHORT STUDY AT KING SAUD UNIVERSITY MEDICAL CITY
Taghreed Alhumsi (Saudi Arabia)

08H03-08H06 | S4A-02 - EFFICACY OF TWO TRANEXAMIC ACID DOSAGE REGIMES FOR CRANIOSYNOSTOSIS SURGERY; A RANDOMIZED CONTROLLED EQUIVALENCY TRIAL.
John Meara (United States)

08H09-08H16 | DISCUSSION

08H16-08H19 | S4A-04 - EVALUATING THE UTILITY OF POSTOPERATIVE COMPUTED TOMOGRAPHY SCANS FOLLOWING CRANIAL VAULT RECONSTRUCTION SURGERY FOR CRANIOSYNOSTOSIS
Craig Birgfeld (United States)

08H19-08H22 | S4A-05 - DOES THE BANDEAU GROW: QUANTIFYING POST-OPERATIVE CHANGES IN THE BANDEAU OVER TIME AFTER FRONTO-ORBITAL ADVANCEMENT
Lucas A. Dvoracek (United States)

08H22-08H25 | S4A-06 - A PERIOPERATIVE FRONTOFACIAL SURGERY CARE PLAN: THE DESIGN AND OUTCOMES. 5 YEARS LATER
Andrea Rebecca White (United Kingdom)

08H25-08H32 | DISCUSSION

08H32-08H35 | S4A-07 - CATASTROPHIC AND CRITICAL INTRA-OPERATIVE EVENTS DURING PEDIATRIC CRANIOFACIAL SURGERY: A NURSING PERSPECTIVE.
Chelsea Durocher (Canada)

08H35-08H38 | S4A-08 - WHAT IS AN ACCEPTABLE HEAD SHAPE IN CHILDREN? A CROWDSOURCING STUDY
Sultan Alshaqsi (Canada)

08H38-08H41 | S4A-09 - PERIOPERATIVE COMPLICATIONS IN NEONATES UNDERGOING CRANIOFACIAL SURGERY: A REVIEW OF 14 YEARS’ EXPERIENCE IN OXFORD, UK
Sumit Das (United Kingdom)
08H41-08H48 | DISCUSSION

08H48-08H51 | S4A-10 - EFFECTS OF DIFFERENT DIRECTIONS OF ANTERIOR CRANIAL DISTRACTION OSTEONEUGENESIS ON ANTERIOR CRANIAL VOLUME
Shi lijun (China)

08H51-08H54 | S4A-11 - EVALUATION OF REOPERATIONS FOR REMOVAL OF ABSORBABLE PLATES AND SCREWS AFTER CRANIO-MAXILLOFACIAL SURGERY
Tomoko Kobayashi (Japan)

08H54-08H57 | S4A-12 - THE EFFICACY OF OUR NOVEL SUTURECTOMY TECHNIQUE WITH ABSORBABLE PLATES IN EARLY SURGERY FOR CRANIOSYNOSTOSIS
Keisuke Imai (Japan)

08H57-09H04 | DISCUSSION

09H04-09H07 | S4A-13 - WOUND HEALING COMPLICATIONS AFTER SURGICAL REPAIR OF CRANIOSYNOSTOSIS: ARE ALL RESORBABLE PLATING SYSTEMS CREATED EQUAL?
Meredith Ann Kugar (United States)

09H07-09H10 | S4A-14 - NEOSUTURE FORMATION AFTER CRANIOSYNOSTOSIS RECONSTRUCTION, REVIEW OF LITERATURE AND REPORTED INCIDENCE IN MAJOR SUTURES
Brittany Nguyen (United States)

09H10-09H13 | S4A-15 - CRANIOSYNOSTOSIS – A REVERSIBLE PATHOLOGY? NEOSUTURES APPEARING AFTER OSTEOTOMY COMBINED WITH SPRINGS
Lars Kölbl (Sweden)

09H13-09H20 | DISCUSSION

09H20-09H23 | S4A-16 - RELEVANT FACTORS FOR REPEAT SURGERY FOR NON-SYNDROMIC CRANIOSYNOSTOSIS: A 21-YEAR EXPERIENCE AT A SINGLE INSTITUTION.
Robert F Keating (United States)

09H23-09H26 | S4A-17 - LESSONS LEARNED FROM X-LINKED HYPOPHOSPHATEMIC RICKETS RELATED CRANIOSYNOSTOSIS
Federico Di Rocco (France)

09H29-09H32 | S4A-19 - THE COGNITIVE PROFILE OF CHILDREN WITH NON-SYNDROMIC CRANIOSYNOSTOSIS
Marizela Kljajic (Sweden)

09H32-09H42 | DISCUSSION
09H42-09H45 | S4A-20 - A CRITICAL CONTENT ANALYSIS OF SOCIAL MEDIA SUPPORT GROUPS FOR CRANIOSYNOSTOSIS: A VALUABLE TOOL FOR QUALITY IMPROVEMENT AND EDUCATION
Michael Hu (United States)

09H45-09H48 | S4A-21 - AN ASSESSMENT OF US AND EUROPEAN CRANIOFACIAL CENTER WEBSITES: ARE THEY PROVIDING ACCURATE AND THOROUGH INFORMATION TO FAMILIES?
Jeffrey Goldstein (United States)

09H48-09H51 | S4A-22 - PARENT-PROXY VS. PATIENT-REPORTED PSYCHOSOCIAL FUNCTIONING OF CHILDREN WITH CRANIOFACIAL ANOMALIES
Jessica B Chang (United States)

09H51-09H58 | DISCUSSION

09H58-10H01 | S4A-23 - NEUROLOGIC CHARACTERIZATION OF CRANIOSYNOSTOSIS: CAN DIRECT BRAIN RECORDINGS PREDICT LANGUAGE DEVELOPMENT?
Robin T Wu (United States)

10H01-10H04 | S4A-24 - A LONGITUDINAL AUDIT OF EARLY LANGUAGE ASSESSMENT OF CHILDREN WITH CRANIOSYNOSTOSIS AND IMPLICATIONS FOR THE DEVELOPMENT OF MULTI-DISCIPLINARY CARE
Susanna Carter (United Kingdom)

10H04-10H07 | S4A-25 - INTERNATIONAL ESTABLISHMENT OF CRANIOFACIAL PROGRAM: 15 YEARS IN THE REPUBLIC OF MOLDOVA
Claire Dillingham (United States)

10H07-10H10 | S4A-26 - A COLLABORATIVE APPROACH TO DEVELOPING SPEECH AND LANGUAGE THERAPY ASSESSMENT PROTOCOLS
Emma Scobie (United Kingdom)

10H10-10H30 | DISCUSSION

10H30-11H00 - Coffee break

SESSION 5A: GENERALITIES IN CRANIOSYNOSTOSIS – PART II
11H00-11H55 | Amphitheater Lavoisier
Chairs: Jeffrey A. Fearon (United States), Juan Carlos Rodriguez (Argentina)

11H00-11H03 | S5A-01 - EVALUATING STRESS IN CAREGIVERS OF CHILDREN WITH CRANIOSYNOSTOSIS
Christopher Bonfield (United States)

11H03-11H06 | DISCUSSION
11H06-11H09 | S5A-03 - THE MELBOURNE METHOD OF TOTAL CRANIAL VAULT RECONSTRUCTION - NEUROSURGICAL NUANCES
Alison Wray (Australia)

11H09-11H12 | S5A-04 - OPHTHALMOLOGICAL FINDINGS IN INFANTS WITH NON-SYNDROMIC CRANIOSYNOSTOSIS
Evangelia Ntoula (Sweden)

11H12-11H22 | DISCUSSION

11H22-11H28 | S5A-05 - LARGE SINGLE INSTITUTION SERIES OF ENDOSCOPICALLY TREATED INFANTS WITH CRANIOSYNOSTOSIS
Mark R Proctor (United States)

11H34-11H40 | S5A-07 - SMAD6 GENOTYPE PREDICTS NEURODEVELOPMENT IN NON-SYNDROMIC CRANIOSYNOSTOSIS
Connor Peck (United States)

11H40-11H50 | DISCUSSION

SESSION 6A: CORONAL SYNOSTOSIS
11H55-13H05 | Amphitheater Lavoisier
Chairs: Jeffrey A. Fearon (United States), Juan Carlos Rodriguez (Argentina)

11H55-11H58 | S6A-01 - FACIAL ANALYSIS OF CRANially MATURE ADOLESCENTS WITH UNILATERAL CORONAL CRANIOSYNOSTOSIS
John Persing (United States)

11H58-12H04 | S6A-02 - CRANially-MATURE NEUROCOGNITIVE OUTCOMES IN UNILATERAL CORONAL CRANIOSYNOSTOSIS FOLLOWING CRANIAL VAULT REMODELING
John Smetona (United States)

12H04-12H10 | S6A-03 - BIFRONTOORBITAL REMODELING REVISITED: LONG TERM FOLLOW-UP OF OPERATED PATIENTS FOR SYNOSTOTIC PLAGIOCEPHALY
Jordi Puente Espel (United States)

12H10-12H21 | DISCUSSION

12H21-12H24 | S6A-05 - IMPROVED OUTCOMES IN STRABISMUS ASSOCIATED WITH UNICORONAL CRANIOSYNOSTOSIS (UCS)
Daniel Cuzzone (United States)

12H24-12H27 | DISCUSSION
12H27-12H30 | S6A-07 - SEVERITY OF ORBITAL DYSMORPHOLOGY CORRELATES WITH STRABISMUS IN UNICORONAL CRANIOSYNOSTOSIS PATIENTS UNDERGOING FRONTAL ORBITAL ADVANCEMENT
Jason W. Yu (United States)

12H30-12H40 | DISCUSSION

12H40-12H43 | S6A-08 - NASAL MONOBLOC FOR CORRECTION OF LATE NASAL AND ORBITAL ASYMMETRY OF UNICORONAL SYNOSTOSIS (UCS): A MORPHOMETRIC AND OUTCOMES ANALYSIS.
Christopher Forrest (Canada)

12H43-12H49 | S6A-09 - MUENKE SYNDROME: LONG-TERM OUTCOME OF A SYNDROME-SPECIFIC TREATMENT PROTOCOL
Bianca Kelly Den Ottelander (Netherlands)

12H49-13H05 | DISCUSSION

13H05-14H05 - Lunch & eposter presentations

SESSION 7A: SAGITTAL SYNOSTOSIS
14H05-16H05 | Amphitheater Lavoisier
Chairs: John Persing (United States), Mark R Proctor (United States)

14H05-14H08 | S7A-01 - PROGRESSION OF SCAPHOCEPHALY IN UNTREATED SAGITTAL SYNOSTOSIS OVER THE FIRST YEAR OF AGE
Benjamin Ballard Massenburg (United States)

14H08-14H11 | S7A-02 - COMPUTATIONAL MODELLING OF CALVARIAL GROWTH IN SAGITTAL SYNOSTOSIS
Mehran Moazen (United Kingdom)

14H11-14H14 | S7A-03 - A POPULATION-BASED NUMERICAL MODEL OF CALVARIAL MECHANICS TO IMPROVE PREDICTION ACCURACY IN SPRING ASSISTED CRANIOPLASTY.
Alessandro Borghi (United Kingdom)

14H14-14H17 | S7A-04 - SAGITTAL SYNOSTOSIS WITHOUT SCAPHOCEPHALY – A REVIEW OF 8 CASES
Deborah Ferguson (United Kingdom)

14H17-14H26 | DISCUSSION

14H26-14H29 | S7A-05 - IMPACT OF SPRING FORCE, LENGTH, AND QUANTITY IN OUTCOMES OF SPRING-MEDIATED CRANIAL VAULT EXPANSION IN SAGITTAL SYNOSTOSIS
Sameer Shakir (United States)

14H29-14H32 | S7A-06 - CEPHALIC MEASUREMENTS ON 3D PHOTOGRAMMETRY IN A COHORT OF SCAPHOCEPHALIC PATIENTS FOLLOWING SPRING ASSISTED CRANIOPLASTY
Maik Tenhagen (Netherlands)
14H32-14H38 | S7A-07 - AN UPDATE ON THE OUTCOMES OF SPRING-ASSISTED SURGERY FOR SAGITTAL CRANIOSYNOSTOSIS
Lisa Renee David (United States)

14H38-14H41 | S7A-08 - SPRING-ASSISTED SURGERY FOR TREATMENT OF SAGITTAL CRANIOSYNOSTOSIS IN MOLDOVA
Silvia Railean (United States)

14H41-14H44 | S7A-09 - SHAPE MEMORY ALLOYS IN CRANIOFACIAL SURGERY: DESIGN AND ASSESSMENT OF A NOVEL DISTRACTER FOR THE CORRECTION OF SCAPHOCEPHALY
Alessandro Borghi (United Kingdom)

14H44-14H56 | DISCUSSION

14H56-15H02 | S7A-10 - THE MELBOURNE METHOD OF TOTAL CRANIAL VAULT RECONSTRUCTION FOR SCAPHOCEPHALY– A TWENTY YEAR OVERVIEW
Anthony Holmes (Australia)

15H02-15H05 | S7A-11 - EVOLUTION OF SURGICAL MANAGEMENT OF SAGITTAL SYNOSTOSIS – A SINGLE INSTITUTION REVIEW
Hasan R. Syed (United States)

15H05-15H08 | S7A-12 - H-CRANIECTOMY VS SPRINGS: A COMPARISON BETWEEN THE TWO SWEDISH NATIONAL REFERRAL CENTERS.
Jesper Unander-Scharin (Sweden)

15H08-15H16 | DISCUSSION

15H16-15H22 | S7A-13 - LONG-TERM NEUROCOGNITIVE OUTCOMES OF SPRING-ASSISTED SURGERY VERSUS CRANIAL VAULT REMODELING
Michael Alperovich (United States)

15H22-15H28 | S7A-14 -10 YEARS REVIEW OF « H CRANIECTOMY » TECHNIQUE FOR SAGITTAL SYNOSTOSIS IN 436 PATIENTS, EVALUATION OF SURGICAL ASPECTS, AESTHETIC AND COGNITIVE OUTCOME
Giovanna Paternoster (France)

15H28-15H31 | S7A-15 - EVALUATION OF DELAYED SAGITTAL SYNOSTOSIS BENEFITS FROM QUANTITATIVE CRANIAL SHAPE ANALYSIS
Esperanza Mantilla-Rivas (United States)

15H31-15H34 | S7A-16 - FINGERPRINTING ON SKULL X-RAY; AN ASSOCIATION WITH OPTICAL COHERENCE TOMOGRAPHY IN SAGITTAL SYNOSTOSIS
Stephanie Van De Beeten (Netherlands)

15H34-15H44 | DISCUSSION
15H44-15H50 | S7A-17 - THE FIRST MULTI-CENTRE RETROSPECTIVE REVIEW OF OUTCOMES AFTER SURGERY FOR SAGITTAL CRANIOSYNOSTOSIS: A CANADIAN NATIONAL COLLABORATIVE.
Grayson Alexander Roumeliotis (Canada)

15H50-15H53 | S7A-18 - TWENTY YEAR REVIEW OF CONSECUTIVE SAGITTAL SYNOSTOSIS CASES WHO UNDERWENT CRANIAL VAULT REMODELLING BY A SINGLE SURGEON AT THE AUSTRALIAN CRANIOFACIAL UNIT
Linda Monshizadeh (Australia)

15H53-15H56 | S7A-19 - LONG-TERM NEUROCOGNITIVE OUTCOMES IN SAGITTAL SYNOSTOSIS: THE IMPACT OF REOPERATION
Carolyn Chuang (United States)

15H56-16H05 | DISCUSSION

16H05-16H35 - Coffee break

SESSION 8A: METOPIC SYNOSTOSIS
16H35-18H05 | Amphitheater Lavoisier
Chairs: Noor ul Owase Jeelani (United Kingdom), Jesse Taylor (United States)

16H41-16H44 | S8A-02 - THE CC-UK – ROUTINE DEVELOPMENTAL SCREENING PROTOCOL IN THE UK RESULTS FOR CHILDREN WITH METOPIC AND SAGITTAL SYNOSTOSIS AT 3 AND 5 YEARS OF AGE.
Louise Dalton (United Kingdom)

16H44-16H50 | S8A-03 - NEUROPSYCHOLOGICAL, BEHAVIOURAL AND PSYCHOLOGICAL FUNCTIONING OF CHILDREN AND ADULTS WITH UNOPERATED METOPIC SYNOSTOSIS
Amanda Osborn (Australia)

16H50-16H57 | DISCUSSION

16H57-17H00 | S8A-04 - CLOMIPHENE CITRATE AND ENCLOMIPHENE HYDROCHLORIDE EXPOSURE IS ASSOCIATED WITH INTERFRONTAL SUTURE ABNORMALITIES IN ZEBRAFISH (DANIO RERIO)
Michael Bezuhly (Canada)

17H00-17H03 | S8A-05 - SCHOOL-AGE AESTHETIC OUTCOMES IN CHILDREN WITH METOPIC CRANIOSYNOSTOSIS. AFTER ENDOSCOPIC OR OPEN TREATMENT
Kamlesh Patel (United States)

17H03-17H06 | S8A-06 - QUANTIFYING THE SEVERITY OF METOPIC CRANIOSYNOSTOSIS: A PILOT STUDY IN APPLICATION OF ADVANCED MACHINE LEARNING IN CRANIOFACIAL SURGERY
Jesse A. Goldstein (United States)

17H06-17H09 | S8A-07 - TRIGONOCEPHALY, A SHIFT IN INDICATION FOR SURGERY
Sarah Versnel (Netherlands)
17H09-17H18 | DISCUSSION

17H18-17H21 | S8A-08 - RADIATION-FREE 3D HEAD SHAPE AND VOLUME EVALUATION AFTER ENDOSCOPICALLY ASSISTED STRIP CRANIECTOMY FOLLOWED BY HELMET THERAPY FOR TRIGONOCEPHALY
Hans Delye (Netherlands)

17H21-17H24 | S8A-09 - RADIOGRAPHIC SEVERITY OF METOPIC CRANIOSYNOSTOSIS CORRELATES WITH LONG-TERM NEUROCOGNITIVE OUTCOMES
Navid Pourtaheri (United States)

17H24-17H27 | S8A-10 - COMPARISON OF HEAD SHAPE OUTCOMES IN METOPIC SYNOSTOSIS: LIMITED STRIP CRANIECTOMY VERSUS FRONTO-ORBITAL RECONSTRUCTION
Mark P Pressler (United States)

17H27-17H35 | DISCUSSION

17H35-17H38 | S8A-11 - LONG-TERM GROWTH FOLLOWING TRIGONOCEPHALY REPAIRS: ARE OVERCORRECTIONS NECESSARY?
Jeffrey A. Fearon (United States)

17H38-17H41 | S8A-12 - OPHTHALMOLOGIC ABNORMALITIES IN CHILDREN WITH TRIGONOCEPHALY
Sumin Yang (Netherlands)

17H41-17H44 | S8A-13 - OPHTHALMOLOGIC FINDINGS IN CHILDREN WITH METOPIC SUTURE ABNORMALITIES
Leslie Shock (United States)

17H44-17H52 | DISCUSSION

17H52-17H55 | S8A-14 -10 ANALYSIS OF OPEN VS. ENDOSCOPIC VS SKULL DISTRACTION CRANIAL VAULT REMODELING TECHNIQUES FOR THE TREATMENT OF METOPIC CRANIOSYNOSTOSIS
Eric Stelnicki (United States)

17H55-17H58 | S8A-15 - CEREBRAL BLOOD FLOW OF THE FRONTAL LOBE IN UNTREATED CHILDREN WITH TRIGONOCEPHALY VERSUS HEALTHY CONTROLS: AN ARTERIAL SPIN LABELING STUDY
Catherine A De Planque (Netherlands)

17H58-18H05 | DISCUSSION

SESSION 9A: CRANIOPLASTY

18H05-19H20 | Amphitheater Lavoisier
Chairs: Shailendra Ashok Magdum (United Kingdom), Marie-Lise van Veelen (Netherlands)

18H05-18H11 | S9A-01 - BONE MORPHOGENETIC PROTEIN-2 IN PEDIATRIC CRANIOPLASTY
Christine M Jones (United States)
18H11-18H14 | S9A-02 - CARBONATED CALCIUM PHOSPHATE CEMENT FOR SECONDARY CRANIoplasty; A LONG-TERM INSTITUTIONAL EXPERIENCE
Laura Humphries (United States)

18H14-18H17 | S9A-03 - DIPYRIDAMOLE-COATED 3DPBC SCAFFOLDS VERSUS AUTOGENOUS BONE GRAFT: LONG-TERM ANALYSIS OF OSTEOREGENERATIVE CAPACITY AND EFFECTS ON CRANIOFACIAL GROWTH
Roberto Flores (United States)

18H17-18H25 | DISCUSSION

18H25-18H28 | S9A-04 - THE WORLD’S FIRST, BATTERY-POWERED, LOW-PROFILE INTER-CRANIAL DEVICE (LID) PROTOTYPE CAPABLE OF REMOTE MAPPING, RECORDING, AND TELEMETRY (MRT)
Brad Rabinovitz (United States)

18H28-18H31 | S9A-05 - TRANS-CRANIOPlasty ULTRASOUND (TCU) THROUGH CLEAR-COLORED IMPLANTS: A VALIDATED PHANTOM STUDY COMPARING IMAGES VIA ULTRASOUND, CT AND MRI
Netanel Benshalom (United States)

18H31-18H34 | S9A-06 - A NEW WINDOW OF OPPORTUNITY FOR NEUROSURGEONS: TRANS-CRANIOPlasty ULTRASOUND (TCU) THROUGH SONOLUCENT CRANIAL IMPLANTS
Tamir Shay (United States)

18H34-18H40 | DISCUSSION

18H40-18H43 | S9A-07 - USING VIRTUAL SURGICAL PLANNING TO CREATE CUSTOMIZED CRANI-ORBITAL IMPLANTS AFTER RADICAL RESECTION OF MONOSTOTIC FIBROUS DYSPLASIA: REPORT OF 2 CASES
Rohit Khosla (United States)

18H43-18H46 | S9A-08 - MULTIPLE DELAYED SCALP RECONSTRUCTION FOR COMPLICATED CRANIAL DEFECT
Yoshiaki Sakamoto (Japan)

18H46-18H49 | S9A-09 - AN OUTCOME REVIEW AND SYSTEMATIC ANALYSIS OF 440 CONSECUTIVE CRANIoplasties
Amir Wolff, DMD (United States)

18H49-18H57 | DISCUSSION

18H57-19H00 | S9A-10 - COMPARISON OF CRANIOPlastY TECHNIQUES UTILIZED TO RECONSTRUCT COMPOSITE FULL-THICKNESS SCALP DEFECTS
Brian T Andrews (United States)

19H00-19H03 | S9A-11 - SYNERGETIC EFFECT OF CALCIUM AND PLATELET RICH PLASMA ENHANCE THE OSTEOGENIC DIFFERENTIATION OF ADIPOSE DERIVED STEM CELLS
Chia Fang Chen (Taiwan)
19H03-19H09 | S9A-12 - AUTOGENOUS BONE CRANIOPLASTY: REVIEW OF A 42-YEAR EXPERIENCE BY A SINGLE SURGEON
S. Anthony Wolfe (United States)

19H09-19H20 | DISCUSSION

SESSION 4B: ORTHOGNATHIC / TREACHER-COLLINS
08H00-10H35 | Petit Amphitheater
Chairs: Fernando Molina (Mexico), Alvaro Figueroa (United States)

08H00-08H03 | S4B-01 - DENTAL CARIES IN A CRANIOFACIAL POPULATION: ‘UNDERSTANDING THE RISK: PREVENTING THE PREVENTABLE’
WEST MIDLANDS SUPRA REGIONAL CRANIOFACIAL UNIT, UK
Tanika Gohil (United Kingdom)

08H03-08H06 | S4B-02 - INTRAORAL SCANNING AND SETTING UP THE DIGITAL FINAL OCCLUSION IN 3D PLANNING OF ORTHOGNATHIC SURGERY
Lun-Jou Lo (Taiwan)

08H06-08H12 | S4B-03 - A MACHINE LEARNING FRAMEWORK FOR AUTOMATED DIAGNOSIS AND COMPUTER-ASSISTED SURGERY PLANNING IN ORTHOGNATHIC SURGERY
Athanasios Papaioannou (United Kingdom)

08H12-08H19 | DISCUSSION

08H19-08H22 | S4B-04 - QUANTITATIVE AIRWAY ANALYSIS OF C3DO COMPARED TO ISOLATED MDO IN SEVERE TREACHER COLLINS SYNDROME AIRWAY OBSTRUCTION
Hitesh Kapadia (United States)

08H22-08H28 | S4B-05 - SEVERE OBSTRUCTIVE SLEEP APNEA IN TREACHER COLLINS SYNDROME: A COMMON AND RECURRING FINDING
Irene Mathijssen (Netherlands)

08H28-08H38 | DISCUSSION

08H38-08H41 | S4B-07 - USING BLACK BONE MAGNETIC RESONANCE IMAGING IN VIRTUAL SURGICAL PLANNING FOR MAXILLARY SURGERY: A COMPARATIVE CADAVER STUDY
Marissa Suchyta (United States)

08H41-08H44 | S4B-08 - THE FUNCTIONAL AND PSYCHOSOCIAL BENEFITS OF TONGUE REDUCTION SURGERY (TRS) FOR MACROGLOSSIA IN BECKWITH WIEDEMANN SYNDROME (BWS)
Caroleen Shipster (United Kingdom)
08H44-08H47 | S4B-09 - UPPER AIRWAY STIMULATION FOR PATIENTS DECLINING MAXILLOMANDIBULAR ADVANCEMENT FOR TREATMENT OF MODERATE TO SEVERE OBSTRUCTIVE SLEEP APNEA
Joanna Pijumg Lee (Taiwan)

08H47-08H54 | DISCUSSION

08H54-08H57 | S4B-10 - PROSTHETIC TMJ RECONSTRUCTION WITH AND WITHOUT ORTHOGNATHIC SURGERY IN A COHORT OF ADOLESCENT FEMALES
Michael Lycka (United States)

08H57-09H00 | S4B-11 - TWO AND THREE SEGMENTS SURGICALLY ASSISTED RAPID MAXILLARY EXPANSION: A CLINICAL TRIAL
Max Domingues Pereira (Brazil)

09H00-09H03 | S4B-12 - ROBINOW SYNDROME: AN ANALYSIS OF 16 CLINICALLY DIAGNOSED CASES
Diana E Guillen (United States)

09H03-09H10 | DISCUSSION

09H10-09H13 | S4B-13 - TRANSPALATAL DISTRACTION FOR THE INDIVIDUAL CORRECTION OF TRANSVERSAL MAXILLARY DEFICIENCY – A RETROSPECTIVE EVALUATION OF 150 PATIENTS
Sandra Scholz (Germany)

09H13-09H16 | S4B-14 - MIDPALATAL SUTURE DENSITY AFTER SURGICALLY ASSISTED RAPID PALATAL SURGERY (SARPE)
Max Domingues Pereira (Brazil)

Srinivas Susarla (United States)

09H19-09H26 | DISCUSSION

09H26-09H29 | S4B-16 - MANDIBULAR OUTER CORTEX SPLITTING OSTEOTOMY: IS IT AN EFFECTIVE FACIAL CONTOUR SURGERY?
Xi Fu (China)

09H29-09H32 | S4B-17 - A FEASIBLE STUDY OF NEW METHOD TO ENHANCE THE AUGMENTED REALITY NAVIGATION EFFECT IN MANDIBULAR ANGLE SPLIT OSTEOTOMY
Haisong Xu (China)

09H32-09H35 | S4B-18 - STANDARDIZED TRAINING SYSTEM FOR MANDIBULAR CONTOUR SURGERIES: A BETTER WAY TO TRAIN PLASTIC SURGEONS AND ACHIEVE OPTIMAL RESULTS
Feng Niu (China)
09H42-09H45 | S4B-19 - EVALUATING THE PERCEPTION OF NASAL CHANGES AND ITS CORRELATION TO ANGULAR MEASUREMENTS AFTER ORTHOGNATHIC SURGERY
Dov Charles Goldenberg (Brazil)

09H45-09H48 | S4B-20 - SIMULTANEOUS MIDFACE ADVANCEMENT AND ORTHOGNATHIC SURGERY: A POWERFUL TECHNIQUE FOR MANAGING MIDFACE HYPOPLASIA AND MALOCCLUSION
Emma Vartanian (United States)

09H48-09H51 | S4B-21 - A BEST-PRACTICE ALGORITHM FOR MAXILARY DISTRACTION IN LATE-MIXED DENTITION: A SURGICAL AND SPEECH OUTCOMES ANALYSIS.
Colin Brady (United States)

09H51-09H58 | DISCUSSION

09H58-10H01 | S4B-22 - SIMULTANEOUS RHINOPLASTY IN ORTHOGNATHIC SURGERY IN CLEFT PATIENTS
Adriana Guerrero (Ecuador)

10H01-10H04 | S4B-23 - HIGH WING LE FORT I ADVANCEMENT IN CLEFT AND CRANIOFACIAL PATIENTS: ADDRESSING THE ESTHETICS OF MIDFACE DEFICIENCY AND CORRECTING MALOCCLUSION
Raquel M. Ulma (United States)

10H04-10H09 | DISCUSSION

10H09-10H15 | S4B-24 - TREACHER COLLINS SYNDROME: RESULTS OF A TREATMENT PROTOCOL WITH 25 YEARS OF FOLLOW-UP
Fernando Molina (Mexico)

10H15-10H21 | S4B-25 - MINIMAL DISRUPTION DISTRACTION IN SEVERE MANDIBULOFACIAL DYSOSTOSIS
Christopher Gordon (United States)

10H21-10H27 | S4B-26 - PROPOSED GUIDELINES FOR EAR RECONSTRUCTION IN TREACHER COLLINS-FRANCESCHETTI SYNDROME FOR A BETTER COOPERATION WITH CRANIO-FACIAL SURGEONS
Stéphane Guichard (France)

10H27-10H30 | DISCUSSION

10H30-11H00 - Coffee break
SESSION 5B: TRAUMA FACE

11H00-11H45 | Petit Amphitheater
Chairs: Martin Evans (United Kingdom), Dov Charles Goldenberg (Brazil)

11H00-11H03 | S5B-01 - USEFULNESS OF INTRA-OPERATIVE ULTRASOUND-GUIDED REDUCTION OF NASAL BONE FRACTURE
Azusa SHIMIZU (Japan)

11H03-11H06 | S5B-02 - THE FREQUENCY OF CERVICAL SPINE INJURIES IN PEDIATRIC CRANIOFACIAL TRAUMA PATIENTS – THE 20-YEAR EXPERIENCE AT THE JOHNS HOPKINS HOSPITAL
Joseph Lopez (United States)

11H06-11H09 | S5B-03 - ORBITAL FLOOR FRACTURES: THE CORRELATION OF PATIENT REPORTED OUTCOMES TO RADIOGRAPHIC FINDINGS
Rajiv Iyengar (United States)

11H09-11H17 | DISCUSSION

11H17-11H20 | S5B-04 - OUTCOME ANALYSIS OF DELAYED COMPLEX ORBITAL RECONSTRUCTION VIA INTRAOPERATIVE NAVIGATION AND ENDOSCOPY
Jia-Ruei Yang (Taiwan)

11H20-11H23 | S5B-05 - NATIONAL TRENDS OF RESOURCE UTILIZATION AND OUTCOMES IN PEDIATRIC FACIAL FRACTURES AND THE IMPACT OF HEALTHCARE POLICY CHANGE
Hillary Jenny (United States)

11H23-11H26 | S5B-06 - ORTHOPTIC VISION THERAPY I: ESTABLISHING A PROTOCOL FOR MANAGEMENT OF DIPLOPIA FOLLOWING ORBITAL FRACTURE REPAIR
Brandon J De Ruiter (United States)

11H26-11H40 | DISCUSSION

SESSION 6B: HFM ROBIN - PART I

11H45-13H10 | Petit Amphitheater
Chairs: Joe McCarty (United States), Pedro Santiago (United States)

11H45-11H48 | S6B-01 - SAFETY ZONES FOR NEONATAL MANDIBULAR OSTEOTOMIES
Christopher Michael Runyan (United States)

11H48-11H51 | S6B-02 - TEMPOROMANDIBULAR JOINT ANKYLOSIS IN PATIENTS WITH CRANIOFACIAL MICROsomia: CAUSES, RECURRENCE AND CLINICAL OUTCOMES
Bradley S. Eisemann (United States)
11H51-11H54 | S6B-03 - CONDYLE POSITION, CONDYLE MORPHOLOGY, AND TEMPOROMANDIBULAR JOINT SPACE IN ROBIN SEQUENCE BEFORE AND AFTER MANDIBULAR DISTRACTION OSTEOGENESIS
Anusha Singh (United States)

11H54-11H57 | S6B-04 - QUANTIFICATION OF MANDIBULAR MORPHOLOGY IN PIERRE ROBIN SEQUENCE USING NOVEL 3-DIMENSIONAL TECHNIQUES
Edward P. Buchanan (United States)

11H57-12H06 | DISCUSSION

12H06-12H09 | S6B-05 - DEVICE MALFUNCTION DURING MANDIBULAR DISTRACTION IN INFANTS WITH ROBIN SEQUENCE
Monica Manrique (United States)

12H09-12H12 | DISCUSSION

12H12-12H15 | S6B-07 - MANDIBULAR DISTRACTION OSTEOGENESIS SHOULD BE THE FIRST CHOICE FOR SEVER PIERRE-ROBIN SEQUENCE IN NEONATES
Yi Ji (China)

12H15-12H18 | S6B-08 - IMPROVEMENTS IN ORAL FEEDING AFTER MANDIBULAR DISTRACTION FOR PIERRE ROBIN SEQUENCE
Alison Kaye (United States)

12H18-12H26 | DISCUSSION

12H26-12H32 | S6B-09 - PSG-BASED PHENOTYPICAL CHARACTERIZATION OF OSA IN ROBIN SEQUENCE INCLUDING AROUSAL AND SLEEP-STAGE SPECIFIC INDICES
Albert K. Oh (United States)

12H32-12H35 | S6B-10 - A COMPARISON OF THE MANDIBULAR DISTRACTION OSTEOGENESIS AND MANDIBLE TRACTION WITH WIRES IN INFANTS WITH PIERRE ROBIN SEQUENCE
Chenbin Dong (China)

12H35-12H38 | S6B-11 - POLYSOMNOGRAPHY DOES NOT CORRELATE WITH WEIGHT GAIN OR FAILURE TO THRIVE IN INFANTS WITH ROBIN SEQUENCE
Michael K. Boyajian (United States)

12H38-12H46 | DISCUSSION

12H46-12H49 | S6B-12 - TREATED PIERRE ROBIN SEQUENCE USING PLACED ALLOGENIC ACELLULAR BONE MATRIX AND MANDIBULAR DISTRACTION OSTEOGENESIS IN THE NEONATE
Weimin Shen (China)
**12H52-12H55 | S6B-14 - MANDIBULAR DISTRACTION OSTEONEOGENESIS FOR THE TREATMENT OF PIERRE ROBIN SEQUENCE: THE UNIVERSITY OF PITTSBURGH EXPERIENCE**
Lisa Block (United States)

**12H55-13H01 | S6B-15 - LONG-TERM ORTHOGNATHIC CONSIDERATIONS IN THE PIERRE ROBIN SEQUENCE PATIENT**
Miles J. Pfaff (United States)

**13H01-13H10 | DISCUSSION**

**13H10-14H10 - Lunch & eposter presentations**

**SESSION 7B: HFM ROBIN - PART II**

**14H10-15H30 | Petit Amphitheater**
Chairs: Fernando Molina (Mexico), Eppo Wolvius (Netherlands)

**14H10-14H13 | S7B-01 - LARYNGOSCOPIC GRADE IMPROVEMENT AND DIFFICULT AIRWAY DESIGNATION IN INFANTS WITH ROBIN SEQUENCE UNDERGOING MANDIBULAR DISTRACTION OSTEONEOGENESIS**
Joseph Lopez (United States)

**14H13-14H16 | DISCUSSION**

**14H16-14H22 | S7B-03 - HINDSIGHT IS 20/20: DISTRACTION OSTEONEOGENESIS IN HEMIFACIAL MICROsomia IN 2020.**
John Polley (United States)

**14H22-14H25 | S7B-04 - RATE AND RISK FACTORS FOR REPEATED MANDIBULAR DISTRACTION OSTEONEOGENESIS IN INFANT PATIENTS WITH TONGUE BASED AIRWAY OBSTRUCTION**
Sunil Tholpady (United States)

**14H25-14H28 | S7B-05 - VIVODOGMA PROJECT MAGNETIC ACTIVATION OF MANDIBULAR DISTRACTION OSTEONEOGENESIS: FIRST CADAVERIC STUDY**
Nicolas Kogane (France)

**14H28-14H38 | DISCUSSION**

**14H38-14H41 | S7B-06 - QUANTITATIVE ANALYSIS OF MASSETER MUSCLES IN PATIENTS WITH HEMIFACIAL MICROsomia**
Xianxian Yang (China)

**14H41-14H44 | S7B-07 - EARLIER DISTRACTION FOR HEMIFACIAL MICROsomia CONTRIBUTES TO COMPENSATORY MAXILLARY GROWTH: EARLY RESULTS OF A MULTICENTER PROSPECTIVE STUDY**
Gang Chai (China)
14H44-14H47 | S7B-08 - ASSOCIATION OF A MUTATION IN ITPR1 WITH DOMINANTLY INHERITED HEMIFACIAL MICROPSOMIA
Xudong Wang (China)

14H47-14H54 | DISCUSSION

14H54-14H57 | S7B-09 - SURGICAL CORRECTION OF SEVERE MANDIBULAR HYPORPLASIA IN HEMIFACIAL MICROPSOMIA AT THE AUSTRALIAN CRANIOFACIAL UNIT.
Linda Monshizadeh (Australia)

14H57-15H00 | S7B-10 - CONCURRENT RIB GRAFTING AND ORTHOGNATHIC SURGERY IN THE TREATMENT OF SEVERE HEMIFACIAL MICROPSOMIA IN SKELETALLY MATURE PATIENTS
Sagar Mehta (United States)

15H00-15H03 | S7B-11 - TRACTION OSTEOGENESIS: A NOVEL APPROACH TO GROWING THE PRUZANSKY 3 MANDIBLE
Raj M. Vyas (United States)

15H03-15H06 | S7B-12 - PEDIATRIC MANDIBULAR DISTRACTION OSTEOGENESIS AND LONG-TERM DENTAL MORBIDITY
Wendy Chen (United States)

15H06-15H13 | DISCUSSION

15H13-15H16 | S7B-13 - OUTCOMES OF MANDIBULAR DISTRACTION FOR THE MANAGEMENT OF INFANTS WITH MICROGNATHIA AND UPPER AIRWAY OBSTRUCTION
Jocelyn Shand (Australia)

15H16-15H19 | S7B-14 - MANAGEMENT OF PERSISTENT BUCCOPHARYNGEAL MEMBRANE WITH DISTRACTION OSTEOGENESIS AND PHARYNGEAL FLAP RECONSTRUCTION
Christopher Gordon (United States)

15H19-15H25 | S7B-15 - DYNAMIC FACIAL REANIMATION IN CRANIOFACIAL MICROPSOMIA
Kevin Zuo (Canada)

15H25-15H30 | DISCUSSION

SESSION 8B: FACE RESEARCH - PART I

15H30-16H10 | Petit Amphitheater
Chairs: Hussein Khonsari (France), Mitchell Stotland (United States)

15H30-15H33 | S8B-01 - USING ARTIFICIAL INTELLIGENCE TO QUANTIFY FACIAL EXPRESSION OF EMOTION: A NOVEL APPROACH TO EVALUATING OUTCOME FOLLOWING FACIAL REANIMATION SURGERY
Thanapoom Boonipat (United States)
15H33-15H36 | S8B-02 - TOWARD AN OBJECTIVE OUTCOME IN FACIAL REANIMATION SURGERY: AN EYETRACKING STUDY
Mitchell Stotland (United States)

15H36-15H41 | DISCUSSION

15H41-15H44 | S8B-03 - NEW FACIAL REANIMATION METHOD WITH INTRA-ORAL TEMPORALIS TRANSFER FOR FACIAL NERVE PALSY
Seung-Ha Park (Republic of Korea)

15H44-15H47 | S8B-04 - ANALYSIS OF DIFFERENTIAL EXCURSION OF THE TEMPORALIS MUSCLE AND TENDON INSERTION ON THE CORONOID PROCESS: IMPLICATIONS IN LABBE PROCEDURE
Waleed Gibreel (United States)

15H47-15H53 | S8B-05 - QUALITY OF LIFE AFTER FACIAL REANIMATION WITH FACIAL CLINIMETRIC EVALUATION (FACE) SCALE IN A SERIES OF PEDIATRIC PATIENTS
Duncan J Mackay (United States)

15H53-16H05 | DISCUSSION

16H05-16H35 - Coffee break

SESSION 9B: FACE RESEARCH - PART II

16H35-17H20 | Petit Amphitheater
Chairs: Hussein Khonsari (France), Mitchell Stotland (United States)

16H35-16H41 | S9B-01 - CRITICAL GROWTH PROCESSES FOR THE PATHOGENESIS OF A CONGENITAL MIDFACIAL HYPOPLASIA
Motoki Katsube (Japan)

16H41-17H47 | DISCUSSION

16H47-16H53 | S9B-04 - SOMATIC MAP2K1 MUTATIONS IN ARTERIOVENOUS MALFORMATION ARE RESTRICTED TO ENDOTHELIAL CELLS AND CONSTITUTIVELY ACTIVATE THE RAS/MAP2K1 PATHWAY
Jeremy A Goss (United States)

16H53-17H03 | DISCUSSION

17H03-17H06 | S9B-05 - INHIBITION OF VASCULARIZED CARTILAGE REGENERATION BY LOADED CURCUMIN SCAFFOLD
Dejun Cao (China)
17H06-17H09 | S9B-06 - ROBOT ASSISTED SURGERY FOR MANDIBULAR ANGLE SPLIT OSTEOTOMY FULLY AUTOMATIC – A PRECLINICAL STUDY
Lin Li (China)

17H09-17H12 | S9B-07 - EARLY CLEFT REPAIR VS NAM: COMPARING PRE-OPERATIVE SEVERITY AND POST-OPERATIVE RESULTS UTILIZING A COMPUTER ENGINEERED AI SYSTEM
Erik Wolfswinkel (United States)

17H12-17H20 | DISCUSSION

SESSION 10B: FACE RECONSTRUCTION
17H20-18H20 | Petit Amphitheater
Chairs: David Staffenberg (United States), Dave Singh (United States)

17H20-17H23 | S10B-01 - HELICAL RIM DEFORMITIES IN NEWBORNS: RESULTS OF EAR MOLDING IN 57 CONSECUTIVE EARS
Daniel Mazzaferro (United States)

17H23-17H26 | DISCUSSION

17H26-17H29 | S10B-03 - THREE-DIMENSIONAL ASSESSMENT OF THE SKELETAL PLATFORM OF THE EAR IN PATIENTS WITH HEMIFACIAL MICROsomIA
Christopher A Derderian (United States)

17H29-17H35 | DISCUSSION

17H35-17H38 | S10B-04 - USE OF FAT TRANSFER IN CONGENITAL CRANIOFACIAL DEFORMITIES - BABY SITTING PROCEDURE ?
Anil Madaree (South Africa)

17H38-17H41 | S10B-05 - CRANIOFACIAL SURGERY IN GHANA; “TEACH A MAN TO FISH” : A VIABLE MODEL FOR EXPANDING CARE CAPACITY IN DEVELOPING COUNTRIES.
Solomon Obiri-Yeboah (Ghana)

17H41-17H44 | S10B-06 - MULTIDISCIPLINARY ALGORITHM FOR THE MANAGEMENT OF AGGRESSIVE DESMOPLASTIC FIBROMAS OF THE HEAD AND NECK IN THE PEDIATRIC POPULATION
Colin M Brady (United States)

17H44-17H53 | DISCUSSION

17H53-17H56 | S10B-08 - MICROSURGICAL REPLANTATION OF THE AMPUTATED SCALP AND FACIAL PARTS
Ha Hong Nguyen (United Kingdom)

17H56-18H02 | DISCUSSION
18H02-18H05 | S10B-09 - ANATOMICAL STUDY AND MODEL FOR A FACE, MANDIBLE AND TEMPOROMANDIBULAR JOINTS ALLOTRANSPLANTATION
Teresa Nunez-Villaveiran (United States)

18H05-18H08 | S10B-10 - OCCLUSAL & DENTAL OUTCOMES FOLLOWING FACIAL ALLOTRANSPLANTATION
Demetrius M Coombs (United States)

18H08-18H11 | S10B-11 - MOBILE EYE SOCKET RECONSTRUCTION USING COSTAL CARTILAGES
Hisashi Motomura (Japan)

18H11-18H20 | DISCUSSION

SESSION 11B: FACE MISCELLANEOUS
18H20-19H20 | Petit Amphitheater
Chairs: Stephen Beals (United States), Xiongzheng Mu (China)

18H20-18H26 | S11B-01 - THE IRISH EXPERIENCE IN PAEDIATRIC PARRY ROMBERG SYNDROME- A CASE SERIES HIGHLIGHTING MANAGEMENT AND SURGICAL OUTCOMES
Aileen Egan (Ireland)

18H26-18H29 | DISCUSSION

18H29-18H32 | S11B-03 - CLINICAL RESEARCH ON SYMMETRIC ANALYSIS AND SURGICAL TREATMENT OF MILD TO MODERATE PROGRESSIVE HEMIFACIAL ATROPHY
Jia Qiao (China)

18H32-18H35 | S11B-04 - SIMULTANEOUS FAT INJECTION WITH ADIPOSE-DERIVED STEM CELL AND FOREIGN BODY REMOVAL FOR COMPLICATIONS AFTER FOREIGN BODY INJECTION ON FACE
In Suck Suh (Republic of Korea)

18H35-18H42 | DISCUSSION

18H42-18H48 | S11B-05 - EVALUATING THE SUCCESS OF FACIAL FEMINIZATION SURGERY THROUGH ARTIFICIAL AND HUMAN INTELLIGENCE
Stephen Lu (United States)

18H48-18H57 | DISCUSSION

18H57-19H00 | S11B-08 - A COMPARATIVE ANALYSIS OF FAMILY ADAPTABILITY AND COHESION RATINGS BETWEEN COLLEGE STUDENTS WITH AND WITHOUT MAXILLOFACIAL DEFORMITIES IN CHINA
Xiaoyan Gao (China)
19H00-19H03 | S11B-09 - REVISION MALARPLASTY GUIDED BY STRATEGIC CATEGORIZATION
Chang Heon Hwang (Republic of Korea)

19H03-19H06 | S11B-10 - APPLICATION OF THREE DIMENSIONAL PRINTING TECHNOLOGY BASED ARTIFICIAL BONE IMPLANT IN REPAIR OF MANDIBULAR ASYMMETRICAL DEFORMITY
Zin Mar Aung (China)

19H06-19H09 | S11B-11 - OSSEOUS GENIOPLASTY: PREVENTION OF WITCH’S CHIN DEFORMITY WITH NO-DEGLOVING TECHNIQUE
Mark Fisher (United States)

19H09-19H20 | DISCUSSION
SESSION 12: FACIOCRANIOSYNOSTOSIS – PART II

08H35-10H30 | Amphitheater Lavoisier
Chairs: Linton Whitaker (United States), Scott Bartlett (United States)

08H35-08H38 | S12-01 - LONG TERM FOLLOW UP ON BONE STABILITY AFTER MONOBLOC ADVANCEMENT IN SYNDROMIC CRANIOSYNOSTOSIS
Cassio Eduardo Raposo-Amaral (Brazil)

08H38-08H44 | S12-03 - DEFINING CRITICAL AGES FOR ORBITAL SHAPE CHANGES AND OPTIC NERVE STRETCHING AFTER FRONTO-FACIAL ADVANCEMENT
Roman Hossein Khonsari (France)

08H44-08H52 | DISCUSSION

08H52-08H58 | S12-04 - INFLUENCE OF MONOBLOC/LEFORT III DISTRACTION ON THE DEVELOPING POSTERIOR MAXILLARY DENTITION AND ITS RESULTANT EFFECT ON ORTHOGNATHIC SURGERY.
Robin Yang (United States)

08H58-09H01 | DISCUSSION

09H01-09H04 | S12-06 - ERUPTION OF MAXILLARY POSTERIOR PERMANENT MOLARS FOLLOWING EARLY CONVENTIONAL LE FORT III ADVANCEMENT AND EARLY AND LATE LE FORT III DISTRACTION
Marina Gonchar (United States)

09H04-09H12 | DISCUSSION

09H12-09H15 | S12-07 - MORE OR LESS SPACE? THE EFFECTS OF FRONTOFACIAL DISTRACTION ON THE MAXILLARY ARCH IN SYNDROMIC CRANIOSYNOSTOSIS.
Amir A Rezvani (United Kingdom)

09H15-09H18 | S12-08 - PREDICTING SURGICAL OUTCOME FOR FRONTOFACIAL DISTRACTION SURGERY: A VALIDATED VECTOR-BASED MODEL
Freida Angullia (United Kingdom)

09H18-09H21 | S12-09 - A MACHINE LEARNING APPROACH FOR OUTCOME PREDICTION OF MIDFACIAL BIPARTITION DISTRACTION IN APERT PATIENTS
Lara S. van de Lande (United Kingdom)

09H21-09H29 | DISCUSSION
09H35-09H38 | S12-12 - MONOBLUC MINUS LEFORT II: THE ROLE OF DIFFERENTIAL DISTRACTION FOR TREATMENT OF THE APERTS CRANIOFACIAL PHENOTYPE
Jesse Taylor (United States)

09H38-09H46 | DISCUSSION

09H46-09H49 | S12-13 - SPEECH AND LANGUAGE OUTCOMES IN CHILDREN WITH APERT SYNDROME BETWEEN 6:0 AND 8:11 YEARS; A CONSECUTIVE SERIES
Nivi Behari (United Kingdom)

09H49-09H52 | S12-14 - THE CLASSIFICATION OF APERT SYNDROME, BASED ON CRANIAL VAULT SUTURE SYNOSTOSIS - DIFFERENT CRANIAL BASE ANGULATIONS AND AIRWAY COMPROMISE
Nivaldo Alonso (United States)

09H52-09H55 | S12-15 - ENDOSCOPIC STRIP CRANIECTOMY IN CHILDREN WITH APERT SYNDROME SAFELY IMPROVES HEAD GROWTH
Johanna Nathania Riesel (United States)

09H55-10H03 | DISCUSSION

10H03-10H06 | S12-16 - LE FORT III ADVANCEMENTS IN CHILDREN WITH SYNDROMIC CRANIOSYNOSTOSIS USING DIRECT FACIAL INCISIONS.
David Johnson (United Kingdom)

10H06-10H09 | S12-17 - PAN-FACIAL DISTRACTION FOR SEVERE CRANIO-MAXILLOFACIAL RETRUSION: A NEW CONCEPT
Lim Kwong Cheung (Hong Kong)

10H09-10H12 | S12-18 - PATIENT SPECIFIC MODIFICATION OF A RIGID EXTERNAL DISTRACTION DEVICE FOR FRONTOFACIAL ADVANCEMENT PROCEDURES IN CRITICAL BONE CONDITIONS
Nicolai Adolphs (Germany)

10H12-10H15 | S12-19 - HYBRID OSTEOGENESIS DISTRACTION SYSTEM FOR SYNDROMIC CRANIOSYNOSTOSIS
Shinji Kobayashi (Japan)

10H15-10H18 | S3-05 - ANTERIOR SKULL BASE AND PERICRANIAL FLAP OSSIFICATION AFTER FRONTOFACIAL MONOBLUC ADVANCEMENT
Anne Morice (France)

10H18-10H25 | DISCUSSION

10H30-11H00 - Coffee break
SESSION 13: HYPERTelorism / Craniofacial Clefts

11H05-12H10 | Amphitheater Lavoisier
Chairs: S. Anthony Wolfe (United States), Rolando Prada (Colombia)

11H05-11H11 | S13-01 - Local Flaps for Facial Cleft Tessier 3 and 4 Reconstruction
Lobredia Zarasade (Indonesia)

11H11-11H17 | S13-02 - Improvement of Exotropia in Patients with Hypertelorism Corrected by Facial Bipartition
Kevin Chen (United States)

11H17-11H20 | S13-03 - Facial Bipartition Under the Age of Two for Severe Facial Clefting
Bryant A Toth (United States)

11H20-11H28 | Discussion

11H28-11H31 | S13-04 - Quantitative Assessment for Bone Resorption Following Cranial Remodeling in Adolescent Hypertelorism and Crouzon Syndrome Patients
Jie Yuan (China)

11H31-11H34 | S13-05 - A Novel Orbito Encephalo Cranial Dysplasia Variant Tessier 9 Facial Cleft
Christian El Amm (United States)

11H34-11H37 | S13-06 - Management of Severe Syndromic Hypertelorism, a Comprehensive Approach
Eileen E. Curry (United States)

Bin Yang (China)

11H40-11H48 | Discussion

11H48-11H51 | S13-08 - Supraorbital Bipartition for the Management of Orbital Hypertelorism
Christian J. Vercler (United States)

Min Wei (China)

11H54-11H57 | S13-10 - Surgical Correction of Orbital Malposition: Indications for the Use of the Box Osteotomy and Facial Bipartition
Eric S Nagengast (United States)
11H57-12H00 | S13-11 - COMPARISON BETWEEN EXPECTED AND ACTUAL OUTCOMES IN TEN CASES OF 3D SURGERY OF HYPERTELORISMS USING CUTTING GUIDES
Boris Laure (France)

12H00-12H10 | DISCUSSION

LECTURES
12H10-13H00 | Amphitheater Lavoisier

12H10-12H15 | Eric Arnaud introducing the “Tessier Medal” recipient: Pr David David

12H15-13H00 | LEC4 - TESSIER LECTURE: DELIVERY OF HEALTH CARE TO THE CRANIOFACIALLY DEFORMED: A LONG TERM GLOBAL VIEW
David David (Australia)

13H00-14H15 - Lunch & eposter presentations

SESSION 14: FACIOCRANIOSYNOSTOSIS – PART III
14H15-15H07 | Amphitheater Lavoisier
Chairs: Juan Martin Chavanne (Argentina), Xiongzheng Mu (China)

14H15-14H18 | S14-01 - MIDFACE DISTRACTION IN YOUNG CHILDREN WITH CRANIOFACIAL DYSOSTOSIS SYNDROMES
Pramod Subash (India)

14H18-14H21 | S14-02 - SUPRA-ORBITAL BONE THICKNESS IN PATIENTS WITH CROUZON SYNDROME AFTER FRONTO-FACIAL MONOBLOC ADVANCEMENT
Jebrane Bouaoud (France)

14H21-14H24 | S14-03 - SAETHRE-CHOTZEN SYNDROME: LONG-TERM OUTCOME OF A SYNDROME-SPECIFIC TREATMENT PROTOCOL
Marie-Lise van Veelen (Netherlands)

14H24-14H31 | DISCUSSION

14H31-14H37 | S14-04 - SPEECH, LANGUAGE AND HEARING IN CHILDREN WITH GENETICALLY-CONFIRMED MUENKE SYNDROME: A MULTI-CENTRE RETROSPECTIVE REVIEW.
Sarah Kilcoyne (United Kingdom)

14H37-14H40 | S14-05 - LANGUAGE OUTCOMES IN A RETROSPECTIVE STUDY OF CHILDREN WITH TCF12 MUTATIONS, A SINGLE CENTRE STUDY
Wendy Blumenow (United Kingdom)

14H40-14H47 | DISCUSSION
14H47-14H50 | S14-06 - CLEIDOCRANIAL DYSPLASIA: REVIEW OF CLINICAL FINDINGS AND MULTIDISCIPLINARY TREATMENT IN AUSTRALIAN CRANIOFACIAL UNIT
Chutima Jirapinyo (Australia)

14H50-14H53 | S14-07 - EAR PAVILION MORPHOLOGY IN PATIENTS WITH TCF 12 MUTATION
Pierre Guerreschi (France)

14H53-14H56 | S14-08 - A COMPREHENSIVE PHENOTYPIC STUDY OF ERF-RELATED CRANIOSYNOSTOSIS
Graeme E. Glass (Qatar)

14H56-14H59 | S14-09 - MITIGATION OF SHP2 ACTIVATION PREVENTS FGFR2 SIGNALING INDUCED CRANIOSYNOSTOSIS
Miles j Pfaff (United States)

14H59-15H07 | DISCUSSION

SESSION 15: PLANNING/IMAGING - PART I
15H07-16H05 | Amphitheater Lavoisier
Chairs: Jim Bradley (United States), David Johnson (United Kingdom)

15H07-15H10 | S15-01 - STATISTICAL SHAPE MODELING AND RELATED TECHNIQUES AS A METHOD TO AID DIAGNOSIS, PLAN SURGERY AND ASSESS OUTCOME IN CRANIOFACIAL SURGERY.
David James Dunaway (United Kingdom)

15H10-15H13 | S15-02 - DEVELOPMENT OF BONE CUTTING INSTRUMENTATION IN THE APPLICATION OF ROBOTIC ASSISTED CRANIOSYNOSTOSIS SURGERY USING THE DA VINCI PLATFORM.
Christopher Forrest (Canada)

15H13-15H16 | S15-03 - COMPUTER-ASSISTED CRANIOFACIAL SURGERY - EXPERIENCES FROM THE COPENHAGEN CENTER FOR CRANIOFACIAL SURGERY
Thomas Kofod (Denmark)

15H16-15H24 | DISCUSSION

15H24-15H27 | S15-04 - IMMERSIVE-TOUCH VIRTUAL-REALITY SURGICAL PLATFORM FOR CRANIOFACIAL SURGERY BY CRANIOFACIAL SURGEONS: TAKING BACK THE CONTROL
Lee Alkureishi (United States)

15H27-15H30 | S15-05 - INTRAOPERATIVE NAVIGATION IN CRANIOSYNOSTOSIS BASED ON VIRTUAL SURGICAL PLANNING AND AN “IN HOUSE” TECHNIQUE
Santiago Ochandiano (Spain)

15H30-15H33 | S15-06 - FEASIBILITY TESTING OF AUGMENTED REALITY PLATFORM FOR SURGICAL NAVIGATION IN CRANIOFACIAL RECONSTRUCTION
Oren M. Tepper (United States)
15H33-15H41 | DISCUSSION

15H41-15H44 | S15-07 - THE VOSTARS PROJECT: A NEW WEARABLE HYBRID VIDEO AND OPTICAL SEE-THROUGH AUGMENTED REALITY SURGICAL SYSTEM FOR CRANIO-MAXILLOFACIAL SURGERY
Giovanni Badiali (Italy)

15H44-15H47 | S15-08 - CONFORMITY OF 3D SURGICAL PLANS WITH ACTUAL RESULTS: A COMPARISON OF VSP ACCURACY BETWEEN FIVE DIFFERENT CRANIOFACIAL PROCEDURES
Seija Maniskas (United States)

15H47-15H50 | S15-09 - BONE-SELECTIVE MRI AS A NONRADIATIVE ALTERNATIVE TO CT FOR CRANIOFACIAL IMAGING
Rosaline Zhang (United States)

15H50-16H00 | DISCUSSION

16H00-16H30 - Coffee break

SESSION 16: PLANNING/IMAGING – PART II
16H40-18H00 | Amphitheater Lavoisier
Chairs: Pravin Patel (United States), Daniel Nowinski (Sweden)

16H40-16H43 | S16-01 - QUANTIFICATION OF HEAD SHAPE FROM 3D PHOTOGRAPHY FOR AUTOMATIC DETECTION OF CRANIOSYNOSTOSIS
Antonio R Porras (United States)

16H43-16H46 | S16-02 - TRANSLATION OF PATIENT UNIQUENESS AND TREATMENT PLAN INTO PRE-SURGICAL PLANNING OF CRANIOPLASTY SURGERY USING WEB ACCESS 3D MODEL-BASED ICT TOOLS
Maxime Maugeon (Lithuania)

16H46-16H49 | S16-03 - EXPANDING A CRANIOFACIAL 3D SKULL DATABASE USING GENERATIVE ADVERSARIAL NETWORKS FOR THE DEVELOPMENT OF DEEP LEARNING IMAGE ANALYSIS
John Phillips (Canada)

16H49-16H57 | DISCUSSION

16H57-17H00 | S16-04 - AUTOMATIC, RADIATION-FREE DETECTION OF CRANIOSYNOSTOSIS WITH DEEP LEARNING PREDICTION MODELS BASED ON 3D STEREOPHOTOGRAMMETRY
Elmar Jerre Kilian Bijlsma (Netherlands)

17H00-17H03 | S16-05 - REVOLUTIONISING DISTRACTION OSTEOTGENESIS WITH THREE-DIMENSIONAL MRI AND A NOVEL 3D PRINTED TRANSFER DEVICE AND CARBON-PEEK BONE PINS.
Stephen R Watt-Smith (United Kingdom)
17H03-17H06 | S16-06 - THE CASE FOR IN-HOUSE 3D VISUALISATION, SURGICAL PLANNING AND RAPID PROTOTYPING IN CRANIOFACIAL SURGERY
Kok Yean Chooi (United Kingdom)

17H06-17H14 | DISCUSSION

17H14-17H17 | S16-07 - CHANGING THE FACE OF CRANIOFACIAL IMAGING WITH FULLY AUTOMATED MRI BONE SEGMENTATION: ARE TWO SEQUENCES BETTER THAN ONE?
Karen A Eley (United Kingdom)

17H17-17H20 | S16-08 - STATISTICAL SHAPE ANALYSIS OF FETAL FACE MORPHOLOGY FROM 3D ULTRASOUND IMAGES
Silvia Schievano (United Kingdom)

17H20-17H23 | S16-09 - SEPARATING CRANIOPAGUS TWINS: A 4 STAGE APPROACH USING 3D IMAGING TECHNOLOGY
Jillian Schreiber (United States)

17H23-17H31 | DISCUSSION

17H31-17H34 | S16-10 - FIBROUS DYSPLASIA OF THE CRANIAL BASE-WHAT IS POSSIBLE AND PRACTICAL
McKay McKinnon (United States)

17H34-17H40 | S16-11 - SUBCRANIOTOMY STRATEGY WITH NAVIGATION FOR OPTIC NERVE DECOMPRESSION IN FRONTOORBITAL FIBROUS DYSPLASIA
Xiongzheng Mu (China)

17H40-17H46 | S16-12 - LONG-TERM FOLLOW-UP SHOWS STABILIZATION OF VISION AND OPTIC CANAL CALIBER IN FIBROUS DYSPLASIA
Kristen S Pan (United States)

17H46-18H00 | DISCUSSION
PANEL 3 - AESTHETIC AND COGNITIVE OUTCOMES: REOPERATIONS IN OPEN VS ENDOSCOPY PROCEDURES
18H00-19H00 | Amphitheater Lavoisier
Chairs: Giovanna Paternoster (France), Jesse Taylor (United States)

18H00-18H08 | PAN3.1 - CRITICAL THINKING REGARDING TIMING AND TREATMENT OF CRANIOSYNOSTOSIS
John Persing (United States)

18H08-18H16 | PAN 3.2 - OUTCOMES IN ENDOSCOPIC SURGERY FOR CRANIOSYNOSTOSIS: WHEN ARE REOPERATIONS NECESSARY?
Mark R Proctor (United States)

18H16-18H24 | PAN3.3 - REDO'S OF 800 PRIMARY INTRACRANIAL PROCEDURES; WHAT MATTERS
Irene Mathijssen (Netherlands)

18H24-18H32 | PAN3.4 - ENDOSCOPIC MANAGEMENT OF CRANIOSYNOSTOSIS: DO WE REALLY KNOW THE RISKS
Steven Buchman (United States)

18H32-18H40 | PAN3.5 - OUTCOMES OF ENDOSCOPIC CRANIOSYNOSTOSIS SURGERY AND CHANGES IN HEAD SHAPE OVER TIME
Suresh Magge (United States)

18H40-19H00 | DISCUSSION

19H00 | ADJOURN AND CLOSURE OF MEETING