

Bi Annual Conference of the European Society of Craniofacial Surgery (ESCFS)

FINAL PROGRAM



October 4-6, 2018
Hotel Royal Olympic, Athens, Greece



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of the European Society
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WELCOME LETTER



Dr. Kanaris Panagopoulos
President

It is with great pleasure to welcome you to the **Bi Annual Conference of the European Society of Craniofacial Surgery (ESCFS)**, to be held in Athens, Greece **from 4 to 6 October 2018**.

There are 16 years since the 2002 ESCFS Meeting in Athens, organized by the late Alexander Stratoudakis. The old members might remember that those days the ESCFS Meetings were informal, with restricted number of participant, live surgery demos, etc. Since then there is considerable discussion about the organization of the ESCFS meetings. However recently the format has changed to more typical international congresses format. Following the ancient Greek wisdom «Πάντων μέτρον ἄριστον» (meaning no excess either direction) I organized the meeting to the following lines:

Thursday 4th October 2018 is devoted to registration and reception.

Friday is devoted to the scientific program with 2 morning and 2 afternoon sessions. The formal Gala of the society will be Friday night. Saturday morning is devoted to 2 morning scientific sessions. Following, the business meeting of the society will conclude, as usually, the meeting. Main topic of the scientific program is craniosynostosis but papers in all in all aspects of craniofacial surgery and research are accommodated as much as possible. Greece is a diverse and beautiful country, with a unique history, great architecture, delicious food, warm-hearted people and a very safe country to travel in Europe. The capital of Greece, Athens, is a travel- friendly destination, easily accessible from the majority of European, American, Middle East and Asian countries. The city is filled with renowned archaeological sites – Parthenon being the most famous among them – modern and classical art museums and galleries, restaurants and bars, street markets and bazaars, open-air cinemas, sandy beaches, picturesque islands in close proximity and 300 sun- drenched days per year. Greece has historically held a leading role in medicine dating back to the time of Hippocrates (5th Century B.C.), the Father of Western Medicine.

I warmly welcome you to Athens and I look forward to your active participation for another outstanding meeting!

SCIENTIFIC PROGRAM

Thursday October 4, 2018

17:00-19:00 **Registrations**

20:00 **Opening Ceremony**

Friday, October 5, 2018

08:30-10:30 **Session 1**

Chairs: Mathijssen Irene, Alexandrou Konstantinos

■ **PERIOPERATIVE COMPLICATIONS IN CHILDREN WITH PFEIFFER SYNDROME: A REVIEW OF 30 YEARS IN OXFORD, UK**

Sumit Das, Stewart Campbell

Consultant Paediatric Anaesthetists, Oxford Craniofacial Unit, UK

■ **NEUROLOGICAL ASSESSMENTS IN SYNDROMIC CRANIOSYNOSTOSIS PATIENTS WITH AND WITHOUT CHIARI MALFORMATION**

I.M.J. Mathijssen, D. Priya, M. Dremmen, H. Bredero-Boelhouwer, M.L.C. Van Veelen

Erasmus MC, Rotterdam, The Netherlands

■ **THE EFFICACY OF OUR DEVELOPED SUTURECTOMY TECHNIQUE IN EARLY SURGERY FOR CRANIOSYNOSTOSIS**

Keisuke Imai¹, Kimiyo Matsumoto¹, Takeshi Masuoka¹, Kazuhiro Shido¹, Daisuke Sakahara¹, Koji Kawamoto, Noritsugu Kunihiro², Yasuhiro Matsusaka²

¹*Department of Plastic & Reconstructive Surgery, Osaka City General Hospital, Japan*

²*Department of Pediatric Neurosurgery, Osaka City General Hospital, Japan*

■ **A NOVEL APPROACH TO LE FORT III ADVANCEMENTS IN CHILDREN WITH SYNDROMIC CRANIOSYNOSTOSIS USING DIRECT FACIAL INCISIONS**

David Johnson, Steven Wall

Oxford Craniofacial Unit, UK

■ **DO WE NEED THE CONSOLIDATION PERIOD IN POSTERIOR CRANIAL VAULT DISTRACTION?**

Gregory Thomas, Steven Wall, Jay Jayamohan, Shailendra Magdum, David Johnson

Oxford Craniofacial Unit, Oxford University Hospitals NHS Trust, Oxford, UK

■ **POSTERIOR CALVARIAL DISTRACTION FOR CHILDREN WITH COMPLEX CRANIOSYNOSTOSIS, CHIARI MALFORMATION TYPE 1 AND SYRINGOMYELIA – 10 YEAR EXPERIENCE IN A UK SPECIALIST CENTRE**

William B Lo, Kyaw Zayar Thant, Jameel Kaderbhai, Nicholas White, Hiroshi Nishikawa, Stephen Dover, Martin Evans, Desiderio Rodrigues

Birmingham Children's Hospital, UK

■ **POSTERIOR VAULT CRANIAL EXPANSION FOR TREATMENT OF INCREASED INTRACRANIAL PRESSURE IN A PATIENT WITH MALIGNANT OSTEOPETROSIS AND PANSYNOSTOSIS**

Dimitrios Varthalitis¹, Peter Mcallister², David Koppel², Moorthy Hasnad², Rody O'Kan'e¹, Emer Campbell¹, Anthony Amato-Watkins¹, Meharpal Sangra¹

¹Paediatric Neurosurgical Department, Royal Hospital of Children, Glasgow, UK

²Oral and Maxillofacial Department, Royal Hospital of Children, Glasgow, UK

SCIENTIFIC PROGRAM

■ **POSTERIOR VAULT EXPANSION USING SPRINGS: A
RETROSPECTIVE ANALYSIS OF 177 CONSECUTIVE CASES**

**Lara S. van de Lande, Richard W.F. Breakey, Alessandro Borghi,
Justine O'Hara, Gregory James, Juling L. Ong, R.D. Hayward,
Silvia Schievano, David J. Dunaway, N.U. Owase Jeelani**

*Craniofacial Unit, Great Ormond Street Hospital, University College London, Institute
of Child Health, London, UK*

■ **CORRECTION OF RESIDUAL FACIAL DEFORMITY IN SYNDROMIC
CRANIOSYNOSTOSIS FOLLOWING MIDFACIAL ADVANCEMENT**

**David Dunaway^{1,2}, Daljit Gill¹, Owase Jeelani^{1,2}, Juling Ong^{1,2},
Greg James^{1,2}, Freida Angullia², Athanasios Papaioannou², Robert
Evans^{1,2}, Tim Lloyd³**

¹*Great Ormond Street Hospital for Children, UK*

²*UCL Great Ormond Street Institute of Child Health, UK*

³*University College London Hospital, UK*

■ **A CRITICAL ANALYSIS OF OSTEOTOMY CHOICE IN MIDFACE DISTRACTION**

Jesse A. Taylor

*MD, Division of Plastic Surgery, The Children's Hospital of Philadelphia, Philadelphia,
PA, Division of Plastic Surgery, Perelman School of Medicine, University of
Pennsylvania, Philadelphia, PA, USA*

■ **PERIOPERATIVE MORBIDITY IN 71 MIDFACIAL ADVANCEMENT
DISTRACTION PROCEDURES IN SYNDROMIC CRANIOSYNOSTOSIS:
A COMPARISON OF RANSCRANIAL AND SUBCRANIAL
PROCEDURES**

Jesse A. Taylor

*MD, FACS, FAAP, Division of Plastic Surgery, University of Pennsylvania and Children's
Hospital of Philadelphia, Philadelphia, PA, USA*

■ **IMPROVEMENT OF SLEEP APNEA AFTER FRONTOFACIAL MONOBLOC ADVANCEMENT: A PROSPECTIVE STUDY IN 108 FACIOCRANIOSYNOSTOSES**

E. Arnaud, S. Haber, Q. Hennocq, G. Paternoster, S. James, R.H. Khonsari, Ph. Meyer

■ **ORBITAL MORPHOLOGY IN CROUZON SYNDROME: A 3D ASSESSMENT BEFORE AND AFTER FRONTO-FACIAL MONOBLOC ADVANCEMENT WITH INTERNAL DISTRACTION**

R.H. Khonsari¹, Q. Hennocq¹, J. Nysjö², R. Sandy³, I. Nyström², G. Paternoster¹, E. Arnaud¹

¹Unité de chirurgie crâniofaciale, Service de neurochirurgie, Hôpital Universitaire Necker – Enfants Malades, Université Paris Descartes, Paris, France

²Center for Image Analysis, Uppsala University, Uppsala, Sweden

³Department of Oral and Maxillofacial Surgery, Aalborg University Hospital, Denmark

■ **A 3D MORPHABLE MODEL FOR APERT AND CROUZON SYNDROME**

Athanasios Papaioannou^{1,2,3}, Zita van Os, William Breakey^{1,2}, Silvia Schievano^{1,2}, Stefanos Zafeiriou³, David Dunaway^{1,2}

¹UCL, Great Ormond Street Institute of Child Health, London, UK

²Craniofacial Unit, Great Ormond Street Hospital for Children, London, UK

³Department of Computing, Imperial College London, London, UK

■ **APERT SYNDROME: WHAT CAN WE LEARN ABOUT THE NATURAL HISTORY OF TURRICEPHALY IN NON-OPERATED CHILDREN FROM A VALIDATED RADIOGRAPHIC ASSESSMENT TOOL?**

Justine O'Hara, B. Way, A. Borghi, P. Knoop, D Chua, R. Hayward

Great Ormond Street Hospital for Sick Children, London, UK

SCIENTIFIC PROGRAM

- **GENETIC ANALYSIS OF SYNDROMIC AND NONSYNDROMIC PATIENTS WITH CRANIOSYNOSTOSIS. NOVEL MUTATIONS IN THE TWIST1 AND EFN1 GENES. THE SIGNIFICANT ROLE OF MOLECULAR DIAGNOSIS IN CLINICAL EVALUATION AND VICE VERSA**

Despina Apostolopoulou

MSc, PhD, AlfaLAB Molecular Biology and Cytogenetics Centre, Hygeia Group of Hospitals, Athens, Greece, Department of Genetics and Biotechnology, School of Physical Sciences, Faculty of Biology, National and Kapodistrian University of Athens, Athens, Greece, Hellenic Craniofacial Center, Athens, Greece

- **RADIATION-FREE 3D HEAD SHAPE AND VOLUME EVALUATION AFTER ENDOSCOPICALLY ASSISTED STRIP CRANIECTOMY FOLLOWED BY HELMET THERAPY FOR TRIGONOCEPHALY**

Guido de Jong^{1,2}, Manon Louise Tolhuisen², Jene Meulstee³, Ferdinand van der Heijden², Erik van Lindert¹, Wilfred Borstlap³, Thomas Maal³, Hans Delye¹

¹Neurosurgery, Radboudumc, Nijmegen, The Netherlands

²University of Twente, Enschede, The Netherlands

*³Oral and Maxillofacial Surgery, Radboudumc, Nijmegen, The Netherlands
Craniofacial Team Nijmegen, The Netherlands*

10:30-10:45 Break

10:45-12:45

Session 2

Chairs: Dunaway David, Dover Stephen

- **A PROSPECTIVE, NON-RANDOMIZED, STUDY OF STRABISMUS RATES FOLLOWING CORRECTION OF THE UCS DEFORMITY: CONVENTIONAL BILATERAL FRONTO-ORBITAL ADVANCEMENT VERSUS FRONTO-ORBITAL DISTRACTION OSTEOGENESIS**

Jesse A. Taylor

MD, FACS, FAAP, University of Pennsylvania and Children's Hospital of Philadelphia, USA

- **USE OF IN SITU SIMULATION TO IMPROVE MANAGEMENT OF MASSIVE HAEMORRHAGE DURING CRANIOFACIAL SURGERY**

Sumit Das, Arnwald Choi, Stewart Campbell

Consultant Paediatric Anaesthetists, Oxford Craniofacial Unit, UK

- **TO DISTRACT OR NOT TO DISTRACT FOR FRONTORBITAL ADVANCEMENT IN CRANIOSYNOSTOSIS**

Yoshiaki Sakamoto¹, Tomoru Miwa²

¹Department of Plastic and Reconstructive Surgery, Keio University School of Medicine, Tokyo, Japan

²Department of Neurosurgery, Keio University School of Medicine, Tokyo, Japan

SCIENTIFIC PROGRAM

■ HIGH INCIDENCE CRANIAL SYNOSTOSIS IN CHILDREN WITH X-LINKED HYPOPHOSPHATEMIC RICKETS

Federico Di Rocco^{1,2,3,7}, Agès Linglart^{4,5,6}, Kieron J. Sweeney^{1,3}, Catherine Adamsbaum⁶, Yahya Debza⁶, Justine Bacchetta^{2,3,4,7}, Anya Rothenbuhler^{4,5,6}

¹Service de Neurochirurgie pédiatrique, France

²Hôpital femme Mère Enfant de Lyon, Université de Lyon, France

³French Reference Center for Craniosynostosis, France

⁴French Reference Center for Rare Diseases of the Calcium and Phosphate Metabolism, France

⁵Service d'endocrinologie pédiatrique, Hôpital Bicêtre Paris-Sud, Le Kremlin-Bicêtre, France; INSERM U1169, France

⁶Hôpital Bicêtre, Le Kremlin-Bicêtre, Université Paris-Sud, France

⁷INSERM 1033 LYOS, France

■ IMPLICATIONS FOR THE MULTI-DISCIPLINARY MANAGEMENT OF CHILDREN WITH CRANIOFRONTONASAL SYNDROME: A 34-YEAR REVIEW OF PATIENTS IN THE OXFORD CRANIOFACIAL UNIT

Sophie Dupré¹, Zoe Gordon², Steven Wall², David Johnson², Andrew Wilkie^{2,3}, Sarah Kilcoyne²

¹Oxford University Clinical Academic Graduate School, John Radcliffe Hospital, Oxford, UK

²Oxford Craniofacial Unit, John Radcliffe Hospital, Oxford, UK

³MRC Weatherall Institute of Molecular Medicine, University of Oxford, John Radcliffe Hospital, UK

■ **VARIATION IN CORONAL ACCESS INCISIONS FOR CRANIOSYNOSTOSIS SURGERY: A WORLDWIDE SURVEY**

Abigail Shaw, Steven Wall, David Johnson

Oxford Craniofacial Unit, John Radcliffe Hospital, Oxford, UK

■ **AN EVOLVING STRATEGY FOR THE MANAGEMENT OF CRANIOCEREBRAL DISPROPORTION (CCD). AN EXAMINATION OF CASES OVER A DECADE AND THE EVOLUTION OF TECHNIQUES. A SINGLE INSTITUTION EXPERIENCE**

Dimitrios Varthalitis¹, David Koppel², Moorthy Halsnad², Rody O'Kane¹, Emer Campbell¹, Anthony Amato-Watkins¹, Meharpal Sangra¹

¹Paediatric Neurosurgical Department, Royal Hospital of Children, Glasgow, UK

²Oral and Maxillofacial Department, Royal Hospital of Children, Glasgow, UK

■ **USE OF AUTOLOGOUS BONE DUST AND FIBRIN GLUE IN CRANIOFACIAL SURGERY: AN EMPHASIS ON HARVESTING TECHNIQUE**

Moorthy Halsnad, Donal Mcauley, Raju Sangra, David Koppel

Department of Craniofacial Surgery, Royal Hospital for Children, Glasgow, UK

■ **ANY BETTER? AN UPDATE ON COMPLICATIONS IN CRANIOFACIAL SURGERY, LEEDS, UK**

James M.W. Robins¹, Ming-Te Lee¹, Dmitri Shastin¹, Mark Liddington², John Russell³, Paula Carter¹, Paul D. Chumas¹

¹Departments of Neurosurgery, Leeds General Infirmary, LEEDS, UK

²Plastic and Reconstructive Surger, Leeds General Infirmary, LEEDS, UK

³Oral and Maxillofacial Surgery, Leeds General Infirmary, LEEDS, UK

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■ **FRONTO-ORBITAL ADVANCEMENT AND RECONSTRUCTION USING REVERSE FRONTAL BONE BUT WITHOUT USING THE ORBITAL BAR**

Asim Sheikh, Moritz Schramm, John Russell, Mark Liddington, Paul Chumas

Leeds Craniofacial Unit, Leeds, UK

■ **SECONDARY CORONAL SYNOSTOSIS AFTER H-CRANIECTOMY CORRELATES TO LARGER NORMALIZATION OF CRANIAL INDEX, BUT ALSO TO DIFFUSE GYRAL IMPRESSIONS AND REDUCED CRANIAL GROWTH**

Jesper Unander-Scharin¹, Johan Nysjö², Per Enblad³, Daniel Nowinski¹

¹Surgical Sciences, Plastic Surgery, Uppsala University, Sweden

²Information Technology, Centre for Image Analysis, Uppsala University, Sweden

³Neuroscience, Neurosurgery, Uppsala University, Sweden

■ **INTRACRANIAL VOLUME AND OPTIC NERVE SHEATH DIAMETER MEASUREMENTS IN 95 PAEDIATRIC SPRING ASSISTED POSTERIOR VAULT EXPANSION CASES**

Richard W.F. Breakey, Paul G.M Knoop, Lara S. van de Lande, Alessandro Borghi, Justine O'Hara, Gregory James, Juling L. Ong, R.D. Hayward, David J. Dunaway, Silvia Schievano, Noor. U.O. Jeelani

Craniofacial Unit, Great Ormond Street Hospital, University College London, Institute of Child Health, London, UK

■ **IMPACT OF SURGERY TIMING FOR CRANIOSYNOSTOSIS ON NEURODEVELOPMENTAL OUTCOMES; A SYSTEMATIC REVIEW**

Rachel Mandela¹, Maggie Bellew², Paul Chumas³, Hannah Nash⁴

¹*DClinPsy, PhD, Leeds Craniofacial Unit and Leeds University, Leeds, UK*

²*DClinPsy, Leeds Craniofacial Unit and Leeds University, Leeds, UK*

³*FRCN (SN), Leeds Craniofacial Unit and Leeds University, Leeds, UK*

⁴*PhD, Leeds Craniofacial Unit and Leeds University, Leeds, UK*

■ **CRANIAL VAULT REMODELING WITH POISE: EXAMINING THE EFFECT OF PRE-OPERATIVE IRON SUPPLEMENTATION ON BLOOD LOSS AND TRANSFUSION PRACTICE IN A NATIONAL PAEDIATRIC CRANIOFACIAL CENTRE**

Eavan O'Brien¹, Shirley Bracken², Dylan Murray³

¹*B.Biotech. Innov., MBBS, MRCS*

²*RCN, RGN*

³*FRCS, FDS, FFD, FRCSI, FRCSI (Plast)*

National Paediatric Craniofacial Centre, Temple Street Children's University Hospital, Dublin 7, Ireland

■ **ADAPTED OCCIPITAL DISTRACTION USING SPRINGS IN APERT AND CROUZON SYNDROME**

Sarah L. Versnel, Caroline Driessen, Marie-Lise C. van Veelen, Marjolein H.G. Dremmen, Irene M.J. Mathijssen

Erasmus Medical Centre Rotterdam, The Netherlands

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■ **FEEDING DIFFICULTIES IN INFANTS WITH SYNDROMIC CRANIOSYNOSTOSIS, A NATIONAL MULTI-CENTRE 6 YEAR RETROSPECTIVE AUDIT**

Wendy Blumenow¹, Emma Scobie², Sarah Kilkoynne³, Suzanna Carter⁴, Sarah Overton⁵, Caroleen Shipster⁶, Nivi Bethari⁷, Emma Scobie⁸, Laura Garvie⁹, Carrie Luscombe¹⁰

¹BSc (Hons) & MRCSLT

²BA (Hons), MMedSci, MRCSLT

³B spth(Hons), B Laws (hons), M laws (health, M stud (oxon) MRCSLT

⁴PGDIP & MRCSLT

⁵BSc (Hons) & MRCSLT

⁶MSc & MRCSLT

⁷BspHT, MECI & MRCSLT

⁸BA (Hons) & MRCSLT

⁹Msc & MRCSLT

¹⁰Ba Hons, Msc & MRCSLT

12:45-13:45 **Break**

13:45-15:45 **Session 3**

Chairs: Van Der Meulen Jacques, Van Veelen Marie-Lise

■ **SURGICAL CORRECTION OF TRIGONOCEPHALY: A SIMPLE TECHNICAL VARIANT TO REDUCE THE RELATED HEMORRHAGIC RISK**

Federico Di Rocco, Arnaud Gleizal, Alexandru Szathmari, Theo Broussolle, Christian Paulus, Carmine Mottolese

French National Referral Center for craniosynostosis, Pediatric Neurosurgery and Maxillofacial surgery Hôpital Femme Mère Enfant Lyon, Université Lyon, France

■ **VARIATIONS IN TRANSFUSION RATES IN THE SURGICAL CORRECTION OF TRIGONOCEPHALY**

Federico Di Rocco¹, Kieron J. Sweeny¹, François Pierrick Desgranges², Sylvie Combet², Pierre Aurélien Beuriat¹, Alexandru Szathmari¹, Carmine Mottolese¹

¹Departement of Pediatric Neurosurgery, Hopital Femme Mère Enfant, French Referral Center for Craniosynostosis, Hospices Civils de Lyon, Université de Lyon, France

²Departement of Pediatric Anesthesia, Hopital Femme Mère Enfant

■ **RECEPTIVE AND EXPRESSIVE LANGUAGE DEVELOPMENT AND HEARING IN CHILDREN WITH ISOLATED METOPIC SYNOSTOSIS: A 22 YEAR RETROSPECTIVE REVIEW OF PATIENTS IN THE OXFORD CRANIOFACIAL UNIT**

Sarah Kilcoyne¹, Bridie Dunn, Hamidreza Natghian³, Steven Wall¹, Andrew O. M. Wilkie^{1,2}, David Johnson¹

¹Oxford Craniofacial Unit, Oxford University Hospitals NHS Foundation Trust, John Radcliffe Hospital, Oxford, UK

²MRC Weatherall Institute of Molecular Medicine, University of Oxford, John Radcliffe Hospital, Oxford, UK

³Stockholm Craniofacial Centre, Department of Craniofacial Diseases, Karolinska University Hospital, Stockholm, Sweden

■ **DEVELOPMENTAL OUTCOMES IN CHILDREN WITH METOPIC CRANIOSYNOSTOSIS AT 3 AND 5 YEARS OF AGE**

Chris Parks¹, Katie Piggott², Anna Kearney²

¹Consultant Paediatric Neurosurgeon, Alder Hey Children's NHS Foundation Trust, Liverpool, UK

²Clinical Psychologist, Alder Hey Children's NHS Foundation Trust, Liverpool, UK

SCIENTIFIC PROGRAM

■ **EARLY TOTAL CALVARIAL REMODELLING FOR SCAPHOCEPHALY-GLASGOW TECHNIQUE**

Moorthy Halsnad, Raju Sangra, David Koppel

Department of Craniofacial Surgery, Royal Hospital for Children, Glasgow, UK

■ **PERCEPTION OF SEVERITY OF DEFORMITY IN PATIENTS AFFECTED BY SCAPHOCEPHALY: A CORRELATION WITH CALVARIAL GEOMETRICAL FEATURES**

Alessandro Borghi¹, Pam Heutinck², Naiara Rodriguez-Florez³, Silvia Schievano¹, David Dunaway², Owase Jeelani²

¹*UCL Great Ormond Street Institute of Child Health, UK*

²*Great Ormond Street Hospital for Children, UK*

³*Department of Biomedical Engineering, Mondragon Unibertsitatea, Spain*

■ **A STATISTICAL SHAPE MODELLING FRAMEWORK TO ASSESS MORPHOLOGICAL OUTCOMES IN SPRING ASSISTED CRANIOPLASTY**

Pam Heutinck¹, Paul Knoops¹, Naiara Rodriguez-Florez³, Stéphane Couvreur², Will Breakey¹, Silvia Schievano^{1,2}, David Dunaway^{1,2}, Owase Jeelani^{1,2}, Alessandro Borghi^{1,2}

¹*UCL Great Ormond Street Institute of Child Health, UK*

²*Great Ormond Street Hospital for Children, UK*

³*Department of Biomedical Engineering, Mondragon Unibertsitatea, Spain*

■ **SHAPE MEMORY ALLOYS FOR THE CORRECTION OF SCAPHOCEPHALY: DESIGN AND VIRTUAL ASSESSMENT ON A SAGITTAL CRANIOSYNOSTOSIS POPULATION**

Alessandro Borghi^{1,2}, Federica Ruggiero², Naiara Rodriguez Florez³, David Dunaway^{1,2}, Silvia Schievano^{1,2}, Owase Jeelani^{1,2}

¹*UCL Great Ormond Street Institute of Child Health, UK*

²*Great Ormond Street Hospital for Children, UK*

³*Department of Biomedical Engineering, Mondragon Unibertsitate, Spain*

■ **DEVELOPMENTAL OUTCOMES FOR CHILDREN WITH SAGITTAL CRANIOSYNOSTOSIS AT AGE 7 AND 10**

Helen Care¹, Louise Dalton², Jo Horton³, Patrick Kennedy-Williams⁵, Anna Kearney⁴, Gemma O'Leary⁶, Katie Piggott⁷, Natasha Rooney⁸

¹*Clinical Psychologist, Oxford Craniofacial Unit, UK*

²*Consultant Clinical Psychologist, Oxford Craniofacial Unit, UK*

³*Paediatric Neuropsychologist/Clinical Psychologist, Birmingham Women's and Children's Hospital, UK*

⁴*Clinical Psychologist, Alder Hey Children's Hospital, UK*

⁵*Clinical Psychologist, Oxford Craniofacial Unit, UK*

⁶*Clinical Psychologist, Birmingham Women's and Children's Hospital, UK*

⁷*Clinical Psychologist, Alder Hey Children's Hospital, UK*

⁸*Clinical Psychologist, Great Ormond Street Hospital for Children, UK*

■ **NEUROPSYCHOLOGICAL AND DEVELOPMENTAL OUTCOMES IN CHILDREN WITH SAGITTAL SYNOSTOSIS: A COMPARISON OF AGGRESSIVE PASSIVE FAULT REDUCTION AND TOTAL VAULT REMODELLING**

Chris Parks¹, Katie Piggott², A Weeks³, Anna Kearney²

¹*Consultant Paediatric Neurosurgeon, Alder Hey Children's NHS Foundation Trust, Liverpool, UK*

²*Clinical Psychologist, Alder Hey Children's NHS Foundation Trust, Liverpool, UK*

³*Craniofacial Fellow, Alder Hey Children's NHS Foundation Trust, Liverpool, UK*

SCIENTIFIC PROGRAM

- **SUCCESSFUL INTRODUCTION OF SPRING-ASSISTED CRANIOPLASTY FOR SCAPHOCEPHALY IN RUSSIA: FIRST CASES EVALUATED USING DETAILED CRANIOMETRY AND PRINCIPAL COMPONENT ANALYSIS**

Leonid Satanin¹, Ivan Teterin, Andrey Evteev², Alexander Sakharov, Lars Kölby³, Natalia Lemeneva, Vitaly Roginsky⁴

¹*Burdenko Neurosurgery Institute, Moscow, Russia*

²*Anuchin Research Institute and Museum of Anthropology, Moscow, Russia*

³*Department of Plastic Surgery Institute for Clinical Sciences, Sahlgrenska Academy, Sahlgrenska University Hospital, Gothenburg University, Gothenburg, Sweden*

⁴*Central Research Institute of Stomatology and Maxillofacial Surgery, Moscow, Russia*

- **IMPACT OF AGE AT SURGERY ON NEURODEVELOPMENTAL OUTCOMES IN SAGITTAL SYNOSTOSIS**

Maggie Bellew, Rachel J. Mandela, Paul Chumas

Leeds Craniofacial Unit, Leeds, UK

- **RADIATION-FREE 3D HEAD SHAPE AND VOLUME EVALUATION AFTER ENDOSCOPICALLY ASSISTED STRIP CRANIECTOMY FOLLOWED BY HELMET THERAPY FOR SCAPHOCEPHALY**

Guido de Jong^{1,2}, Jene Meulstee³, Erik van Lindert¹, Wilfred Borstlap³, Thomas Maal³, Hans Delye¹

¹*Neurosurgery, Radboudumc, Nijmegen, The Netherlands*

²*University of Twente, Enschede, The Netherlands*

³*Oral and Maxillofacial Surgery, Radboudumc, Nijmegen, The Netherlands Craniofacial Team Nijmegen, The Netherlands*

■ **SECONDARY DEFORMITY CORRECTION OF AN ADULT WITH UNICORONAL CRANIOSYNOSTOSIS WITH CUSTOM MADE POLYETHER ETHERKETONE (PEEK) IMPLANT**

Moorthy Halsnad, Donal Mcauley

Department of Craniofacial Surgery, Queen Elizabeth University Hospital, Glasgow, UK

■ **PARENT AND PATIENT REPORTED OUTCOME MEASURE FOR HEAD SHAPE IN SINGLE SUTURE SYNOSTOSIS**

David Johnson, Steven Wall, Helen Care, Patrick Kennedy-Williams, Louise Dalton

Oxford Craniofacial Unit, UK

■ **MUENKE SYNDROME: A PHENOTYPIC AND MORPHOMETRIC DESCRIPTION. GREAT ORMOND STREET HOSPITAL (GOSH) TREATMENT PROTOCOL**

Federica Ruggiero¹, Athanasios Papaioannou³, Alessandro Borghi², Juling Ong⁴, Owase Jeelani⁵, Gregory James⁵, David Dunaway⁴, Justine O' Hara⁴

¹*Craniofacial fellow at Great Ormond Street Hospital for Children, London, UK*

²*Researcher at ICH UCL London, UK*

³*Department of Computing, Imperial College, London, UK*

⁴*Consultant Plastic Surgeon at Great Ormond Street Hospital for Children, London, UK*

⁵*Consultant Neurosurgeon at Great Ormond Street Hospital for Children, London, UK*

SCIENTIFIC PROGRAM

■ **ASSESSING SUBJECTIVE PATIENT AND CARER RATINGS OF CORONAL ACCESS SCARS FOLLOWING CRANIOSYNOSTOSIS SURGERY**

Abigail Shaw¹, Patrick Kennedy-Williams^{1,2}, Helen Care^{1,2}, Louise Dalton^{1,2}, Steven Wall^{1,3}, David Johnson^{1,3}

¹Oxford Craniofacial Unit, John Radcliffe Hospital, Oxford, UK

²Department of Psychological Medicine, Oxford University Hospitals NHS Foundation Trust, UK

³Department of Plastic & Reconstructive Surgery, John Radcliffe Hospital, Oxford, UK

■ **REVISION SURGERY FOR SAGITTAL CRANIOSYNOSTOSIS**

Kanaris Panagopoulos, Konstantinos Alexandrou

Hellenic Craniofacial Center, Greece

■ **A CASE SERIES OF PARRY ROMBERG PATIENTS IN IRELAND: OUR EXPERIENCE IN DIAGNOSIS AND MANAGEMENT**

Aileen Egan, Jennifer Supapol, Dylan Murray

National Paediatric Craniofacial Centre, Temple Street Children's University Hospital, Dublin 1; Mater Misericordiae University Hospital, Dublin 7, Ireland

15:45-16:00 **Break**

16:00-18:30

Session 4

Chairs: Nishikawa Hiroshi, Di Rocco Federico

■ **SING AND SAY: AN INTERACTIVE WEB-BASED RESOURCE OF LANGUAGE STIMULATION RESOURCES FOR CHILDREN WITH CRANIOSYNOSTOSIS**

Sarah Kilcoyne

Oxford Craniofacial Unit, Oxford University Hospitals NHS Foundation Trust, John Radcliffe Hospital, Oxford, OX3 9DU, UK

■ **LANGUAGE OUTCOMES, HEARING LOSS AND INTRACRANIAL HYPERTENSION IN CHILDREN WITH TWIST1-CONFIRMED SAETHRE-CHOTZEN SYNDROME: A LONGITUDINAL RETROSPECTIVE REVIEW OF PATIENTS IN THE OXFORD CRANIOFACIAL UNIT**

**Sarah Kilcoyne¹, Carrie Luscombe¹, Jay Jayamohan¹,
Shailendra Magdum¹, Steven Wall¹, Andrew O. M. Wilkie^{1,2},
David Johnson¹**

¹Oxford Craniofacial Unit, Oxford University Hospitals NHS Foundation Trust, John Radcliffe Hospital, Oxford, UK

²MRC Weatherall Institute of Molecular Medicine, University of Oxford, John Radcliffe Hospital, Oxford, UK

■ **ENHANCING THE TRANSFER OF PRACTICAL AND PERSONAL PATIENT INFORMATION FOR CHILDREN UNDERGOING TRANSCRANIAL SURGERY AT THE OXFORD CRANIOFACIAL UNIT: A NOVEL USE OF PERSONALISED COMMUNICATION PASSPORTS**

**Sarah Kilcoyne¹, Sarah Overton¹, Kari Ashton¹, Helen Care¹,
Patrick Kennedy-Williams¹, Carrie Luscombe¹, Louise Dalton²,
Megan Jones², Steven Wall¹, David Johnson¹**

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SCIENTIFIC PROGRAM

- **SPEECH AND LANGUAGE DEVELOPMENT, HEARING, FEEDING AND INTRACRANIAL HYPERTENSION FOR CHILDREN WITH GENETICALLY-CONFIRMED PFEIFFER SYNDROME: A 20 YEAR LONGITUDINAL RETROSPECTIVE REVIEW OF 18 PATIENTS IN THE OXFORD CRANIOFACIAL UNIT**

**Sarah Kilcoyne¹, Ruth Potter Katherine, Zoe Gordon³,
Sarah Overton¹, David Johnson¹, Steven Wall¹, Andrew O. M. Wilkie^{1,2}**

¹Oxford Craniofacial Unit, Oxford University Hospitals NHS Foundation Trust, John Radcliffe Hospital, Oxford, UK

²MRC Weatherall Institute of Molecular Medicine, University of Oxford, John Radcliffe Hospital, Oxford, UK

³Speech and Language Therapy Department, Oxford University Hospitals NHS Foundation Trust, John Radcliffe Hospital, Oxford, UK

- **A LONGITUDINAL AUDIT OF EARLY LANGUAGE ASSESSMENT OF CHILDREN WITH SINGLE SUTURE CRANIOSYNOSTOSIS AND THE IMPLICATIONS FOR THE DEVELOPMENT OF MULTI-DISCIPLINARY TEAM CARE PATHWAYS**

**Susanna Carter, Emma Scobie, Zoe Healey, Martin Evans,
Stephen Dover, William Lo, Hiroshi Nishikawa, Desideiro Rodrigues,
Nicholas White**

Birmingham Craniofacial Unit, Birmingham Children's Hospital, UK

■ **EXPLORING CHARACTERISTICS OF AUTISM SPECTRUM DISORDERS AND CRANIOSYNOSTOSIS. DATA FROM A 12 MONTH STUDY PERIOD**

Patrick Kennedy-Williams^{1,2}, Helen Care^{1,2}, Louise Dalton^{1,2}, Molly Pinckston^{1,2}, Andrew Wilkie^{1,3}, Steven Wall¹, David Johnson¹

¹Oxford Craniofacial Unit, UK

²Department of Psychological Medicine, Oxford University Hospitals NHS Foundation Trust, UK

³MRC Weatherall Institute of Molecular Medicine, University of Oxford, UK

■ **THE COGNITIVE PROFILE IN CHILDREN WITH NON-SYNDROMIC CRANIOSYNOSTOSIS**

Marizela Kljajic¹, Giovanni Maltese¹, Peter Tarnow¹, Peter Sand², Lars Kölby¹

¹Department of Plastic Surgery, Institute of Clinical Sciences, Sahlgrenska Academy, Göteborg University, Sahlgrenska University Hospital, Göteborg, Sweden

²Department of Psychiatry and Neurochemistry, Institute of Neuroscience and Physiology, Sahlgrenska Academy, Gothenburg University, Sahlgrenska University Hospital, Sweden

■ **ASSESSING THE LANGUAGE AND COMMUNICATION ABILITIES OF CHILDREN WITH NONSYNDROMIC AND ERF-RELATED LAMBDROID SYNSTOSIS**

Sarah Overton, Sarah Kilcoyne, Carrie Luscombe, Andrew Wilkie, David Johnson, Steven Wall

Oxford Craniofacial Unit, UK

■ **ON THE OUTSIDE LOOKING IN...**

Kerri Bradbury, Desiderio Rodrigues, Hiroshi Nishikawa, Stephen Dover, Nicolas White, William Lo, Martin Evans

Craniofacial Unit, Birmingham Children's Hospital, UK

SCIENTIFIC PROGRAM

■ **SPEECH AND LANGUAGE OUTCOMES IN CHILDREN WITH
CROUZON'S SYNDROME BETWEEN 4;0 AND 6;11 YEARS; A
CONSECUTIVE SERIES**

Nivi Behari¹, Kim Talbot², Caroleen Shipster¹, Lesley Cavalli¹

¹Speech and Language Therapy Department, Great Ormond Street Hospital for Children, London, UK

²Speech and Language Therapy Department, University College London, UK

³Qualification – Masters in Early Childhood Intervention, UK

■ **SPEECH AND LANGUAGE THERAPY OUTCOMES AND AGE AT
SURGERY: A SINGLE CENTRE RETROSPECTIVE AUDIT OF PATIENTS
WITH SAGITTAL SYNOSTOSIS AT 5 YEARS OLD**

**Zoe Healey¹, Emma Scobie¹, Susanna Carter¹, Jo Horton², Pete Noons³,
Nick White⁴, Hiroshi Nishikawa⁴, Desi Rodrigues⁴, William Lo⁴,
Steve Dover⁴, Martin Evans⁴**

¹Specialist Speech and Language Therapists

²Neuropsychologist

³Clinical Nurse Specialist

⁴Craniofacial Surgeons

■ **LANGUAGE AND EXECUTIVE FUNCTION IN APERT SYNDROME**

Pérez Martínez S.^{1,2}, González Marqués J.¹, Hinojosa Mena J.³

¹Universidad Complutense de Madrid. Dpto. Psicología Experimental, Procesos Cognitivos y Logopedia, Spain

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³Hospital del Niño Jesús de Madrid. Servicio de Neurocirugía, Spain

■ **POSTOPERATIVE PSYCHOLOGICAL STATUS IN CRANIOFACIAL PATIENTS: A LITERATURE REVIEW**

Vaitsa Giannouli¹, Nikolaos Ch. Syrmos²

¹Bulgarian Academy of Sciences, Sofia, Bulgaria

²Aristotle University of Thessaloniki, School of Medicine, Thessaloniki, Greece

■ **NEURODEVELOPMENTAL PROBLEMS OF CHILDREN WITH NON-SYNDROMIC CRANIOSYNOSTOSIS**

Dawid Larysz¹, Agnieszka Rożek², Patrycja Larysz³

¹MD, PhD, Maria Skłodowska-Curie Memorial Hospital - Cancer Institute in Gliwice Poland

²MSc, Maria Skłodowska-Curie Memorial Hospital - Cancer Institute in Gliwice Poland

³MD, PhD, Dept. of Neurosurgery in Sosnowiec, Medical University of Silesia, Poland

■ **ERN CRANIO – A SURVEY TO ESTABLISH STANDARDS OF CARE ACROSS A NETWORK OF EXPERT CENTRES IN CRANIOSYNOSTOSIS**

Tiffany Berrington¹, Matthias Schulz², Hans Delye³, Greg James^{1,4}

¹Craniofacial Unit, Great Ormond Street Hospital, London, UK

²Charité – Universitätsmedizin Berlin, Germany

³Radboud UMC, Nijmegen, The Netherlands

⁴Great Ormond Street Institute of Child Health, University College London, UK

■ **UNILATERAL LAMBDOID SYNOSTOSIS: A SYSTEMATIC REVIEW FOCUSING ON SURGICAL TECHNIQUES AND RESULTS**

Jordi Puente-Espel¹, Matthew Mitchell², Lin Xi Jing³, Petros Konofaos⁴

¹MD: Fellow in Craniofacial Surgery

²MD: Resident in Plastic Surgery

³MD: Assistant Professor of Plastic Surgery

⁴MD, PhD: Assistant Professor of Plastic Surgery and Neurology

Department of Plastic Surgery, University of Tennessee Health Science Center, Memphis, TN, USA

SCIENTIFIC PROGRAM

■ **THE COMPUTED CRANIAL FOCAL POINT**

Guido de Jong¹, Thomas Maal², Hans Delye¹

¹Neurosurgery, Radboudumc, Nijmegen, The Netherlands

*²Oral and Maxillofacial Surgery, Radboudumc, Nijmegen, The Netherlands
Craniofacial Team Nijmegen, The Netherlands*

■ **RECONSTRUCTION OF MEDIAL WALL BLOWOUT FRACTURE
DEFECT WITH COMBINATION OF RESORBABLE MESHED PLATE &
ARTIFICIAL CANCELLOUS BONE SUBSTITUTE**

Jongweon Shin, Song I Park, Hyung-Sup Shim, Ho Kwon

*Department of Plastic and Reconstructive Surgery, Uijeongbu St. Mary's Hospital,
The Catholic University of Korea, Korea*

Saturday, October 6, 2018

08:00-09:15

Session 5

Chairs: Wall Steven, Johnson David

■ **ADVANCING THE MANDIBULAR DISTRACTOR**

**Will Rodgers¹, Alessandro Borghi², Owase Jeelani³,
Silvia Schievano⁴, David Dunaway⁵**

¹MBBS BDS MRCS

²PhD

³FRCS (Neuro. Surg.) MBA

⁴PhD

⁵FDSRCS FRCS (Plast.)

■ **SURGICAL MANAGEMENT OF PAEDIATRIC ORBITAL TUMOURS**

**Jameel Kaderbhai, William Lo, Desiderio Rodrigues, Hiroshi Nishikawa,
Nicholas White, Michael Stephen Dover, Martin Evans**

Craniofacial Unit, Birmingham Children's Hospital, UK

■ **TREATMENT OF PALATE MUCOEPIDERMOID CARCINOMA WITH WIDE
EXCISION AND SIMULTANEOUS RECONSTRUCTION OF ALTF: A CASE REPORT**

Ping-Yi Lin¹, Yo-Shen Chen², Ying-Shiung Kuo¹, Kwang-Yu Hu¹

¹Department of Oral & Maxillofacial Surgery, Far Eastern Memorial Hospital, Taiwan

²Department of Plastic and Reconstructive Surgery, Far Eastern Memorial Hospital, Taiwan

■ **ACELLULAR DERMAL MATRIX (INSUREGRAF®) IN THE
PREVENTION OF FREY'S SYNDROME AND DIMPLING OF THE
SURGICAL SITE AFTER PAROTIDECTOMY**

Kang Kyo Joon

*M.D., Department of Plastic and Reconstructive Surgery, Uijeongbu St. Mary's
Hospital, College of Medicine, the Catholic University of Korea, Korea*

SCIENTIFIC PROGRAM

■ **BENEFITS OF TONGUE REDUCTION FOR MACROGLOSSIA IN BECKWITH WIEDEMANN SYNDROME: A PROSPECTIVE STUDY**

**Caroleen Shipster¹, David Dunaway², Juling Ong³,
Jonathan Britto⁴, Nivi Behari⁵, Nicole Prendeville⁶**

¹Specialist Speech & Language Therapist BSc, SRSLT, MRSLT, MSc

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⁶Specialist Speech & Language Therapist BSc, SRSLT, MRSLT, MSc

Great Ormond Street Hospital for Children NHS Foundation Trust, London WC1
3JN, UK

■ **REJUVENATING BONES BY DESIGNING SCAFFOLD-BASED ADVANCED THERAPIES THAT RECAPITULATE CHILDREN'S BONE HEALING CAPACITY IN ADULTS**

**Arlyng Gonzalez-Vazquez^{1,2,3}, Rosanne Raftery^{1,2,3},
Fergal J. O'Brien^{1,2,3}, Dylan J. Murray⁴**

¹Tissue Engineering Research Group, Department of Anatomy, Royal College of Surgeons in Ireland, Ireland

²Trinity Centre for Bioengineering, Trinity College Dublin (TCD), Ireland

³Advanced Materials and BioEngineering Research (AMBER) Centre, Ireland

⁴National Paediatric Craniofacial Centre, Temple Street Children's University Hospital, Ireland

■ **NASOALVEOLAR MOLDING IN INFANTS WITH CLEFT LIP AND PALATE. START WITH THE END IN MIND**

Chris Laspos

DDS, MDS

■ **CRANIOFACIAL MICROSOMIA; DETAILED SHAPE ANALYSIS AND THE EVALUATION OF SURGERY THROUGHOUT LIFE**

**B.I. Pluijmers¹, C.J.J.M Caron¹, I.M.J. Mathijssen¹, B.L. Padwa³,
E.B. Wolvius¹, D.J. Dunaway², M.J. Koudstaal^{1,2,3}**

¹Erasmus Medical Center-Sophia's Children's Hospital, Rotterdam, The Netherlands

²Great Ormond Street Hospital, London, UK

³Boston Children's Hospital, Boston, USA

■ **FUNCTIONAL PROBLEMS IN PATIENTS WITH CRANIOFACIAL MICROSOMIA**

**C.J.J.M Caron¹, B.I. Pluijmers¹, K.F.M. Joosten¹, I.M.J. Mathijssen¹,
D.J. Dunaway², B.L. Padwa³, E.B. Wolvius¹, M.J. Koudstaal^{1,2,3}**

¹Erasmus Medical Center-Sophia's Children's Hospital, Rotterdam, The Netherlands

²Great Ormond Street Hospital, London, UK

³Boston Children's Hospital, Boston, USA

■ **DEVELOPING A DENTAL PATHWAY FOR CRANIOFACIAL PATIENTS AT THE WEST MIDLANDS SUPRA REGIONAL CRANIOFACIAL UNIT, BIRMINGHAM CHILDREN'S HOSPITAL, UK**

**Tanika Gohil¹, Stephanie Hackett², Sarah Jael Mckaig³,
Martin Evans⁴**

¹Academic Clinical Fellow in paediatric dentistry, Birmingham Children's Hospital, UK

²Dental Core trainee in Restorative dentistry, Birmingham Dental Hospital, UK

³Consultant in paediatric dentistry, Birmingham Children's Hospital, UK

⁴Consultant in Oral and maxillofacial surgery, Birmingham Children's Hospital, UK

09:15-09:45 **Break**

SCIENTIFIC PROGRAM

09:45-11:00

Session 6

Chairs: Dunaway David, Paternoster Giovanna

■ **COMPUTER- ASSISTED CRANIOFACIAL SURGERY – A REASONABLE APPROACH**

Nicolai Adolphs¹, Matthias Schulz²

*Interdisciplinary Centre for Craniofacial Surgery Charité Universitätsmedizin
Berlin, Germany*

¹Department for Craniomaxillofacial Surgery – Campus Virchow Klinikum

²Pediatric Neurosurgery – Campus Virchow Klinikum

■ **PERCEPTIONS OF FACIAL NORMALITY AND ATTRACTIVENESS IN A POPULATION WITHOUT INTERNET ACCESS**

**Hiroshi Nishikawa, Patrick Seigne, Kelvin Mizen, Martin Evans,
J. Khaderbhai, Chris Lawrence**

Facing Africa and Birmingham Craniofacial Unit

■ **MANAGEMENT OF OSSIFIED CEPHALOHAEMATOMA:
REPORT OF A CASE**

Halsnad Moorthy, Sukhdev Parhar, Raju Sangra, David Koppel

Department of Craniofacial Surgery, Royal Hospital for Children, Glasgow, UK

■ **THE 3D EVOLUTION OF THE NORMAL CRANIUM DURING THE FIRST 2 YEARS OF LIFE**

**Jene Meulstee¹, Guido de Jong², Wilfred Borstlap¹, Thomas Maal¹,
Hans Delye²**

¹Oral and Maxillofacial Surgery, Radboudumc, Nijmegen, The Netherlands

²Neurosurgery, Radboudumc, Nijmegen, The Netherlands

■ **COMPUTER-ASSISTED PLANNING AND NAVIGATION IN CRANIOFACIAL SURGERY**

Eppo Wolvius

Erasmus University Medical Centre Rotterdam, The Netherlands

■ **APPLICATION OF VIRTUAL PREOPERATIVE PLANNING IN ENDOSCOPIC SURGERY OF CRANIOSYNOSTOSES**

**Dawid Larysz¹, Krzysztof Dowgierd², Patrycja Larysz³,
Wojciech Wolański⁴, Marek Gzik⁵**

¹MD, PhD, *Maria Skłodowska-Curie Memorial Hospital - Cancer Institute in Gliwice Poland*

²MD, PhD, *Dept. of Maxillofacial Surgery in Olsztyn, Poland*

³MD, PhD, *Dept. of Neurosurgery in Sosnowiec, Medical University of Silesia, Poland*

⁴*Department of Biomechatronics, Silesian University of Technology in Gliwice, Poland*

⁵*Department of Biomechatronics, Silesian University of Technology in Gliwice, Poland*

■ **OUTCOMES IN CRANIOFACIAL SURGERY – MAKING THE INTANGIBLE QUANTIFIABLE AND COMPARABLE**

**J.L. O'Hara, S. Kassakos, A. Moses, M. Mora, M. Harris, F. Ruggiero,
N. Rooney**

Craniofacial and Outcomes Department, Great Ormond Street Hospital & Sick Children, UK

SCIENTIFIC PROGRAM

- **COMPARISON OF DOLPHIN, PROPLAN CMF, AND PROBABILISTIC FINITE ELEMENT MODELLING FOR 3D SOFT TISSUE PREDICTION IN CRANIOMAXILLOFACIAL SURGERY**

Paul G.M. Knoops^{1,2}, Alessandro Borghi¹, Richard W.F. Breakey¹, Juling Ong¹, N.U. Owase Jeelani¹, Richard Bruun², Bonnie L. Padwa², Silvia Schievano¹, David J. Dunaway¹

¹*UCL GOS Institute of Child Health & Great Ormond Street Hospital for Children, London, UK*

²*Department of Plastic and Oral Surgery, Boston Children's Hospital & Harvard School of Dental Medicine, Boston, MA, USA*

- **MAXILLOFACIAL INJURIES DURING SUMMER SPORTS SEA ACTIVITY. COMBINATION WITH TRAUMATIC BRAIN INJURIES. RADIOLOGICAL AND CLINICAL EVALUATION**

Nikolaos Ch.Syrmos, Vaitsa Giannouli, George Gavridakis, Argyrios Mylonas

¹*Auth, Department of Sports Sciences and Medical School, Thessaloniki, Macedonia, Greece*

²*Venizeleio General Hospital, Heraklion Crete, Greece*

11:00-12:00

Business meeting

GENERAL INFORMATION

Dates

October 4-6, 2018

Venue

Royal Olympic Hotel, Athens, Greece

Language

The official language of the Conference is English. No official translation will be provided.

Registration Desk Opening Hours

Thursday, October 4:	17:00 - 19:00h
Friday, October 5:	08:00 - 18:30h
Saturday, October 6:	07:30 - 12:30h

Slide Center Preview Room

The speakers are requested to hand in their presentation at least half an hour prior to their scheduled session.

Badges

Name badges and relevant material will be provided on site to all registered participants. All delegates are requested to wear their name badge during the Conference.

Certificates of Attendance

All registered delegates are entitled a Certificate of Attendance.
Certificates can be collected on **October 6th, 2018**.

Conference Evaluation Form

Chairs, Authors and Delegates are kindly requested to fill in and return the Conference Evaluation form distributed at the Registration Desk.

GENERAL INFORMATION

Opening Ceremony

The Opening Ceremony of the Conference will be held on Thursday, October 4th, 2018 at 20:00, in the Acropolis Museum.

Registrations

Registration Type	Cost
Participant	350€
Therapists/Nurses	50€

The registration package includes:

- Attendance to the Meeting
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