

The Cutting Edge



Association of
British
Academic
Oral and
Maxillofacial
Surgeons

November 2018

www.abaoms.org.uk

President's Report

Special points of interest:

- The ABAOMS website is being regularly updated. Please visit it soon (www.abaoms.org.uk)

Thank you to the Liverpool team who hosted a fabulous meeting in 2017; the talk about Brexit by Professor Michael Dougan was particularly memorable – and now we are only four months from Brexit perhaps even more pertinent and worrying. Cardiff also looks to be providing an exciting and varied program – with talks ranging from ‘Managed Clinical Networks’ to ‘Nanomedicine’

During the past 12 months, ABAOMS has been working in conjunction with the RCS (Eng) to establish a research bursary. This year the bursary was awarded to Bosun Hong from Birmingham. Bosun will be undertaking a project entitled ‘Patients’ preference in anaesthetic modality for surgical removal of mandibular third molar teeth’. The project results will be published in the FDS journal and presented at ABAOMS in 2019.

This year we have supported a number of educational events aimed at trainees to help raise our profile. In Yorkshire, we held a Facial Pain Study Day in July, this was a joint venture with BAOS. In Birmingham, Tom Dietrich hosted a Research Methods Course together with the British Society of Periodontology. More recently in Edinburgh, Eleni Besi organised a workshop in soft tissue grafting and socket preservation, also supported by Geistlich.

After a lot of discussion, it has been decided that our 2019 annual conference will be held in Belfast jointly with the RCS Ireland and BAOS. Mike Macluskey has been working closely with John Marley to ensure that this meeting continues to contain the blend of research, teaching and clinical education that everybody in ABAOMS appreciates. I know that Mike will update us with plan for this exciting joint venture when we meet in Cardiff. In 2020 Glasgow have asked if they can host our conference - so we look forward to more haggis and bagpipes.

In England we now have 8 NIHR ACF; 4 NIHR CL and 7 University specialist training posts. Unfortunate I do not have easy access to the current data for Scotland, Wales and NI. Two candidates sat the ISFE in the spring and 8 were successful in the June MOS examination. Academic training in oral surgery is looking very healthy – and this bodes well for the future.

It my pleasure to hand over to Justin Durham as the new President of ABAOMS – I know Justin will have some fresh ideas and lots of energy to ensure that we continue to be an active society. Mike Macluskey continues to work very hard as our Secretary and I would like to say a personal thank you to Mike for the enormous support she has given ABAOMS over the past three years. Vas Sivarajasingam has very kindly agreed to continue as treasurer – for this we are all extremely grateful - as changing anything in the banking world seems to be impossible! Helen Clark has taken up the mantle as Education lead with some new ideas and this subgroup is thriving. Thomas Dietrich has initiated a research group that will be meeting for the first time during the Cardiff conference.

Thank you all very much for your support over the past three years - I look forward to meeting you all in Cardiff 2018; Dublin 2019; Glasgow 2020.....

Tilly Loescher October 2018

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The group formed after the Dublin meeting in 2004 and initially published a national curriculum for oral surgery. Since then we have worked on a number of topics, which have been mutually beneficial. We meet twice a year and now all of the UK schools are represented.

This year we welcome Binthan (Binne) Smart who represents Aberdeen for the first time.

Evgeny Kushnerev and Neil Patel have taken over for Manchester.

Adam Lorincz stood in as rep this year for KCL whilst Nadine Khawaja was on leave.

Our most recent meeting was on the 25th of April 2018, hosted in Bristol by Anna Dargue.

Mike Macluskey has collated data on numbers of extractions carried out by our undergraduates in the UK. Although data sets were varied, the overall finding was that extraction numbers had not decreased since the previous survey was carried out in 2006.

We are moving forward with plans to collect more comparable data sets so that we can assimilate the information between schools more accurately.

The plan is to go on and publish this data.

Kathryn French and the team in Bristol are researching our schools 'never events experience' and 'patient safety education teaching', wishing to determine how never events have affected teaching across the UK.

There is movement within the group to construct a question bank for oral surgery similar to that available to medical schools throughout the UK. We hope to make significant progress with this in the coming year.

Undergraduate prizes

This year eight schools took part in the competition, which was to write an essay entitled 'Are CBCT's defensive practise with regards to mandibular third molar surgery?'

The following students were awarded their school prize and will receive £100.

Prize winner	School
Zamzam Abdullah	Manchester
Claire Dewshi	Kings
James Douglas	Liverpool
Jason He	Cardiff
Yui Yin Ko	Leeds
Hannah Lawler	Glasgow
Hinali Patel	Birmingham
Rachel Sommerville	Sheffield

A small, prestigious panel of ABAOMS members determined the national winner. Yui Yin Ko (Leeds) was selected and will be attending the conference in Cardiff to present her work as a poster and have her essay published as an opinion piece in due course.

Helen Clark, November 2018.

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Last year has been a productive one for the Birmingham team. Most significantly, Kasia Gurzawska gave birth to a beautiful baby girl Sofia. We are also very proud of Bosun Hong, ACF in Oral Surgery, who was successful in winning the inaugural ABAOMS/RCS small research grant for her work the provision of general anaesthesia for exodontia in adults. Following successful navigation of the HRA approval process, she has just started data collection in November.

In July we ran a 2 day Clinical Research Methods course, organised by Birmingham Clinical Trials Unit and co-sponsored by ABAOMS and the British Society of Periodontology. The course was well-received with quite a few participants from ABAOMS. We look forward to hosting this course again in 2019.

Following Patricia Gorecki's departure to pastures new we have appointed a new Clinical Lecturer in Oral Surgery. Annika Kroeger joined us in September from the University of Bonn. She is looking forward to meeting the Academic Oral Surgery community in Cardiff.

Selected publications:

Kröger A et al., The Severity of Human Peri-Implantitis Lesions Correlates with the Level of Submucosal Microbial Dysbiosis. *J Clin Periodontol.* 2018 Oct 20. doi: 10.1111/jcpe.13023.

Hong B, et al., Minimally invasive vertical versus conventional tooth extraction: An interrupted time series study. *J Am Dent Assoc.* 2018 Aug;149(8):688-695.

Gorecki P, et al. Submucosal Diclofenac for Acute Postoperative Pain in Third Molar Surgery: A Randomized, Controlled Clinical Trial. *J Dent Res.* 2018 Apr;97(4):381-387.

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Bristol

Bristol has had continued clinical, academic and research success during 2017-18. Tom Walker is currently a Specialty Registrar in Oral and Maxillofacial Surgery and has served on the Oral and Maxillofacial Surgery SAC as the trainee representative this year. He received £1500 from British Association of Oral & Maxillofacial Surgeons' to fund his attendance at Microtia/Ear Reconstruction mission in Ecuador in April 2018. Tom has published in specialty journals and written book chapters on orofacial cleft deformities and their management this year.

Carla Fleming, Specialty Trainee in Oral Surgery, was successful in applying for a Health Education England sponsored leadership secondment this year and will be working on the Advancing Dental Care Review along the Chief Dental Officer's team. Carla and the teaching team at Bristol Dental School also continue to deliver a popular Postgraduate Certificate in Oral Surgery and are striving to increase oral surgery experience for undergraduates as part of an ongoing comprehensive BDS curriculum review.

Mark Gormley, Academic Clinical Fellow in Oral Surgery has served as the national trainee representative for Oral Surgery, sitting on the SAC and BAOS council this year. His research employs genetic epidemiological methods to explore risk factors for head and neck cancer. Mark has been awarded a Wellcome GW4-Clinical Academic Training PhD fellowship which will commence in September 2019.

Kathryn French, Academic Clinical Fellow in Oral Surgery has continued her research studying inflammatory and foreign body responses to suture placement in zebrafish. Kathryn has presented her work nationally at The Physiological Society Conference and the Academy of Medical Sciences meetings this year.

Anna Dargue, Specialty Dentist in Oral and Maxillofacial Surgery has completed her MSc in Teaching and Learning for Health Professionals and is working hard to organise the BAOS annual conference next year in Bristol!

John Collin, Specialty Registrar in Oral and Maxillofacial Surgery is currently on a one year Head and Neck Oncologic and Microvascular Surgery Fellowship at the University of Florida, Jacksonville. John received grants worth over £9000 for his fellowship including the Ethicon Travel Grant, British Association of Oral and Maxillofacial Surgeons Travel Grant and the European Society for Surgical Oncology Fellowship award. In addition he has published his work on host-biomaterial interactions in zebrafish, alongside a book chapter on reconstructing oral cancer defects.

Barry Main, National Institute for Health Research Academic Clinical Lecturer in Oral and Maxillofacial Surgery, based in the Centre for Surgical Research, Department of Population Health Sciences. His current work is looking at optimising informed consent for surgery and he has been awarded a grant of £30k by the Academy of Medical Sciences to fund that. He also leads a large series of systematic reviews of innovative surgical

www.bristol.ac.uk/dentistry

procedures and devices as part of the NIHR Bristol Biomedical Research Centre Surgical Innovation Theme. He has written book chapters on shared decision making and randomised controlled trials.

Selected publications

Witherell CE, David Gurevich D, Collin JD, Paul Martin P and Spiller KL. (2018) Host-Biomaterial Interactions in Zebrafish. *ACS Biomater. Sci. Eng.*; 4, 1233-40.

Main BG, Belncowe NS, Howes N et al. Protocol for the systematic review of the reporting of transoral robotic surgery *BMJ Open*, 2018; 8(1): e019198

French KE, Wilson MH, Revington PJ. (2017) Chronic Recurrent Dislocation of the Temporomandibular Joint Secondary to Complex Facial Tic Disorder. *British Journal of Oral Maxillofacial Surgery*. 55(10):1045-1046.

Qalandari MA and Dargue A. (2017) A re-audit to assess the incidence of alveolar osteitis within the Oral Surgery Department of a teaching hospital. *Oral Surgery*, 10, (4) e22-e29.

Walker TWM, Bowey AJ, Jenkyn I, Buckley D, Thomas SJ. (2018) Cervical Spine Training in first on-call trainees in Oral & Maxillofacial Surgery. *Oral Surgery*.

Walker TWM, Fleming CA, Kerai, A, Hall S, Rakhra D, Horwood JP, Waylen AE, Thomas SJ. (2018) Are dental students well-equipped to deal with difficult communication situations? *British Dental Journal*.

Book chapters

Collin JD, Tuner BT, Fernandes RP. Reconstruction of oral cancer defects. Chapter 12 in: *Improving Outcomes in Oral Cancer*. Kademani D (Ed) Springer (In press).

Ayliffe P, Walker TWM. Secondary Cleft Lip & Palate Deformities. *Fundamentals of Orthognathic Surgery 3rd Edition*. Harris & Hunt (Imperial College Press June 2018).

Anwar Bamber M, Walker TWM. Fixation. *Fundamentals of Orthognathic Surgery 3rd Edition*. Harris & Hunt (Imperial College Press June 2018).

Walker TWM, Green B, Mills C, Ayliffe PA. Facial Clefts. *Clinical Embryology: An Atlas of Congenital Malformations*. 1st Edition Carachi & Doss (Springer February 2019).

Wu E, Wicks C, Walker TWM. Oral Cavity & Dental Anomalies. *Clinical Embryology: An Atlas of Congenital Malformations*. 1st Edition Carachi & Doss (Springer February 2019).

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Since the last meeting the Violence Research Group (VRG) has seen significant change. After more than four decades of service to the NHS and nearly three decades of leading the VRG Professor Jonathan Shepherd CBE, took his retirement in December 2017. It is hard to believe that one year has already past and we wish Jon every happiness in his retirement. Jon's passion for research and innovation sees no sign of diminishing however – he is now Professor in the Cardiff University Crime and Security Research Institute.

Simon Moore, Professor of Public Health Research, now leads the Alcohol & Violence Research Group and was also appointed Co-Director of Crime and Security Research Institute. Simon is PI in grants including: 'Evaluation of Alcohol Treatment Centres: Implications for Service Delivery, Patient Benefit and Harm Reduction' (£1M NIHR) and 'Electronic Longitudinal Alcohol Study in Communities' (ELAStiC; £1.2M ESRC & Alcohol Research UK).

VS, now Director of NVSN led the 2017 annual survey of violence-related Emergency Department (ED) attendances in England and Wales. This was the first survey following the implementation of the new Emergency Care Data Set (ECDS) in Type 1 EDs in England and showed that overall violence levels had plateaued. VS serves on the Welsh Government ECDS Group to deliver an improved ECDS in Wales. VS was appointed Chair of the first OS & OM Managed Clinical Network in Wales.

Since the last meeting the Advanced Therapies Group have again been very fortunate, with new funding for DWT from the Australian life sciences company qBiotics (investigating the use of compounds derived for the Australian rainforest in wound healing and anti-infective applications in human and animal applications) and the Group has been awarded a 4-year, £2.8M Programme grant from the Norwegian Research Council (with Algipharma, UCL and SINTEF); working on alginate oligosaccharide nanomedicines for applications in respiratory drug and gene delivery. Human Phase 2b clinical trials are ongoing. Lydia Powell and DWT were awarded an MRC P2D award to develop nanoparticle delivery systems for use in biofilms with Mark Gumbleton in Pharmacy. Manon Pritchard, a dentally-qualified PDRA in the group, was awarded a three-year Precision Medicine Fellowship in relation to this work. The group is joined by Tasmin Joyce an EU-funded Masters student working with Katja Hill. Elaine Ferguson received a Wellcome ISSF award working on polymertherapeutics in anti-cancer applications and Juliette Oak-

ley (a Paediatric Respiratory SpR) commenced her formal MD studies. The Implant Programme, with Rob, Nick, Adrian and DWT is now in its 10th year and welcomed 8 students to the PgDip/Masters Prograstudents Programme this year with 6 students graduating this year

Selected publications:

Balancing mcr-I expression and bacterial survival is a delicate equilibrium between essential cellular defence mechanisms. *Nature Communications* 8, Article number: 2054 (2017) doi:10.1038/s41467-017-02149-0. Violence in England and Wales in 2017: An Accident and Emergency perspective. Cardiff: Cardiff University. Available at: [assets/pdf_file/0019/1162414/National-Violence-Surveillance-Network-Report-2017.pdf](#) Injury resulting from targeted violence: An emergency department perspective. *Criminal Behaviour and Mental Health* 28(3), pp. 295-308. (10.1002/cbm.2066) Links between deprivation and risk of violence-related injury: a qualitative study to identify potential causal mechanisms. *Journal of Public Health* 40(2), pp. e59-e65. (10.1093/pubmed/fox073)

Alginate Oligosaccharide-Induced Modification of the lasI-lasR and rhlI-rhlR Quorum Sensing Systems in *Pseudomonas aeruginosa*. *Antimicrobial Agents and Chemotherapy* 2018; 62(5). doi: 10.1128/AAC.02318-17.

Targeted disruption of the extracellular polymeric network of *Pseudomonas aeruginosa* biofilms by alginate oligosaccharides npj *Biofilms and Microbiome* December 2018. doi: 10.1038/s41522-018-0056-3

Surgical therapy for peri-implantitis management: a systematic review and meta-analysis *Oral surgery* 30 March 2018 doi.org/10.1111/ors.1234.

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Graham is now in his third and final year as Dean of the Dental Faculty of the Royal College of Physicians & Surgeons of Glasgow, as well as being Vice President (Dental) of RCPSG.

He chairs several College c/ts and is also Chair of SFEE (the c/t responsible for administering the ISFE exams). This is now dealing with the 5 year review of the examination. As well as attended several GDC related activities eg speciality review. Prof Ogden was also appointed the JMDF rep. to the SDCEP Steering Group as well as being a member of the SDCEP Guideline Development Group for Antibiotic Prophylaxis against infective endocarditis, which reported in 2018.

Additional administrative duties include being Associate Editor for the journal *Oral Surgery*, Editorial board member for *Translational Research in Oral Oncology* and acting as a referee for several other journals. He continues to be the sole dental representative on the Medical Advisory Panel (MAP) for Drinkaware, which provides them with independent advice and helps develop content of their website. Recent highlight has been the link up between Drinkaware and Public Health England in promoting the Government alcohol strategy on drink free days. Back at the University of Dundee he continues to be head of Oral & Maxillofacial Clinical Sciences (we are not allowed to call ourselves a unit or department for reasons best known to the University of Dundee, although we are a separate School). He contributes to the teaching and assessment of both undergraduate (BDS, MBChB) and postgraduate (MResOralCancer) education within Dundee. He is also an Advisor of Studies for the BDS curriculum, as well as being the Dental School representative on the Univ of Dundee Culture & Arts c/t.

He was invited to speak at the Hector Lanfranchi symposium on Oral cancer at the IADR meeting in London 2018, as well as chairing a session at the South East Asia Association for Dental Education meeting in Vietnam and also attended the South East Asia meeting of IADR. He continues to encourage younger members of the profession to be actively involved in the BDA, supporting the local Dundee branch c/t. Nationally he is an examiner for the MFDS exam, and has just completed his 4 year term as external examiner for the various Master's degree programmes in Oral Surgery at the Eastman Dental Institute, University College London. In January 2018 he completed the course and received the Advanced Certificate in Clinical Education from the Royal College of Physicians & Surgeons Glasgow.

Mike Macluskey continues to work on research on potentially malignant and malignant oral lesions. Currently she has four post-graduate students working on projects including oral cancer research, educational research and the use of intravenous sedation in oral surgery. Her PhD student, Huda Alkhadar, presented her work on "Nerve Growth Factor Effect on Oral and Salivary Gland tumours" at IADR in London in July. Mike was invited to speak at the Anatomical Society Winter Meeting In December on "Solving clinical problems with anatomical solutions" and was also invited to speak at the Association of Basic Science Teachers in Dentistry (ABSTD) conference in Dundee in May. She continues to work as the exam convenor for the third year course and is a clinical lead for the new 4D curriculum which started this academic year. She continues to act as an examiner for the MORal Surg examination.

Simon Shepherd in the fourth year of training and together with our lecturer Angela Pilley he presented work on leadership skills for undergraduates at ADEE in Oslo in August. Simon continues to work on oral cancer and educational projects. Angela is working towards an educational based PhD.

Selected Publications:

Ogden, G. (2017), "Cervical lymphadenopathy", in *The Biomedical & Life Sciences Collection*, Henry Stewart Talks Ltd, London (online at <https://hstalks.com/bs/3447/>)

Berman A, Ogden GR Whistleblowing in the NHS-Freedom to speak up: a summary *Dental Update* 2017 44:571-575.

Shepherd S, Ogden GR. Alcohol and the dental team: Relevance, risk, role and responsibility. *Dental Update* 2017; 44 (6):495-501.

Bonetti D, Young L, Hempleman L, Deas J, Shepherd S, Clarkson J. Exploring the feasibility of general health promotion in UK dental primary care: ENGAGE in Scotland. *Br Dentj*, 2018 Oct 12;225 (7):645-656. doi: 10.1038/sj.bdj.2018.809.

Shankar A, Crouch DH, Macluskey M., Ezrin-Radixon-Moesin binding phosphoprotein 50 : a potential novel bio-marker in human papilloma virus-associated head and neck squamous cell carcinoma. *Head Neck Pathol* 2018 May 30. doi: 10.1007/s12105-018-0937-z

The Eastman's 70th Anniversary was celebrated at the end of November, as we prepare for changes in the coming year ahead. We shall be sad to leave the iconic Eastman site on the Gray's Inn Road in September 2019 and look forward with some trepidation to the move. The new Hospital located on Huntley Street is now built and is in the process of being furnished, whilst the Institute will be relocated to the UCL Rockefeller building nearby with some research activity at the Royal Free Hampstead. In the Oral Surgery department, Dr Josiah Eyeson continues as Clinical Lead and Dr Rachel Leeson as Academic Lead.

NHS Staff activities:

We are pleased to announce that Nikki Tanna and Maria Devine have been appointed Consultants starting January 2019.

Amy Patrick, StR started September 2018. Amy presented in Lugano, Switzerland on PREMS/PROMS and has a paper in SDJ on antibiotic resistance.

Tina Halai- Won the ASIT/RCS Patient Safety Prize and completed her CCST in June 2018. A paper 'Cost evaluation of dental extractions in primary care versus secondary care' accepted by FDJ, 'Injection site reaction following IV Midazolam' paper published in SAAD Digest and has two case reports accepted in Oral Surgery Journal and Dental Update. Tina is also presenting at ABAOMS 2018-Human Factors and Simulation training.

Ambareen Naqvi- presented at Alpine Conference-Health and Safety and presented at EDH on the Head and Neck Cancer pathway. Sedation audit accepted by SAAD Digest.

Adesh Savla- paper on GDP training course in Oral Surgery accepted by BDJ

Mehri Eghtessad- Sedation audit accepted by SAAD Digest

Ammi Suchak -presented at BAOS 2018, Sedation audit accepted for SAAD Digest

Rana Wali -Head and neck anatomy paper accepted by Dental Update.

Abeera Imran -presented at BAOS 2018 on Bone Graft Audit.

UCL Postgraduate activities:

Ramizah Rozaimiee (3yr MClintDent (Adv) postgraduate) presented her research dissertation at the IADR this summer and was awarded the BSODR prize in Oral Medicine and Oral Pathology. Ramizah was also awarded the Ivor Kramer medal for the most outstanding taught programme postgraduate at the Eastman 70th event last week and has now returned home to Malaysia.

Kevin Henry, Vishaal Ranjitsingh from Trinidad, West Indies and Lim Wei Tatt from Malaysia (3yr MClintDent (Adv) postgraduates) also attended IADR this summer to present their research.

Alaa Aldaadaa published an article in the Journal of Biomaterials Applications in Aug 2018.

Aghiad Alsabbagh (1yr MSc) is presenting a poster of his research at ABAOMS this week and will shortly be starting a post in Oral and Maxillofacial Surgery in Southampton.

Cindy Blenman and Luis Pinhero have been put forward for the UCL Deans Research Prize in February 2019 and Hessah Shams and Aghiad Alsabbagh were included on the UCL Dean's list for 2018.

Kholoud Alharthi currently a third year MClintDent (Adv) postgraduate successfully passed her FFD (Oral Surgery and Oral Medicine) exam in Dublin last week.

Six first year Masters postgraduates started in September joining seven second year and three third years, in addition to several Oral Surgery PhD postgraduates in the department. Thank you to our External Examiner Prof Graham Ogden, as he completed his term of office with us this September.

The Oral Surgery department at Edinburgh has been through a period of change. This summer, Dr Nick Malden retired after 21 years here. Dr Ailsa Morrison is now part-time in the department as she shares her time between the dental institute and NHS Education for Scotland, and Prof Victor Lopes left the department after 10 years. We are currently in the process of recruiting two new consultants to restore the department to full compliment.

The two specialty registrars successfully completed their three years of training, and two new StRs started in September this year following national recruitment and we wish them well for the future.

Recent Publications

Systemic Sclerosis: A case report and considerations for General Dental Practitioners, Wright F, Besi E, Malden N, Dental Update, <https://doi.org/10.12968/denu.2018.45.8.742>

Comparison of fasting and non-fasting patients receiving intravenous (IV) sedation. Besi E, Besi C, Lees B, Morrison A, O'Connor N. Oral Surgery Journal, doi:10.1111/ors.12305

Tobacco habit-Associated oral disease and the negative effects on surgical outcomes, Sara Al-Mahoz, Zainab Salim, Nicholas J Malden, Crispian Scully, Victor Lopes, Dental Update, <https://doi.org/10.12968/denu.2017.44.11.1065>

Incidence of deep fascial space infection following lower third molar removal, O'Connor N, Besi E, Lopes V, Malden N. Oral Surgery Journal, DOI: 10.1111/ors.12278

Investigation of nerve injury after lower third molar removal, Z Moosa, N Malden, Oral Surgery Journal, <https://doi.org/10.1111/ors.12284>

Pharmacology: Discontinuation of bisphosphonates, N Malden, S Loh British dental journal 222(2):67-68 DOI: 10.1038/sj.bdj.2017.52

An unusual presentation of an unicystic ameloblastoma in a child: A case report and literature review, E Besi, N O'Connor, B Conn, T Handley, A Ulhaq, Oral Surgery Journal, <https://doi.org/10.1111/ors.12271>.

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Leeds

<http://www.leeds.ac.uk>

Under Alasdair McKechnie's leadership we have launched our PGCert/Dip/MSc in Oral Surgery and PGCert/Dip/MSc in Oral and Maxillofacial Surgery. The MSc in OMFS is a collaborative project with our colleagues in NHS. Links to the university website are: <https://courses.leeds.ac.uk/i603/oral-surgery-msc>, <https://courses.leeds.ac.uk/i603/oral-surgery-msc>

Helen Clark currently teaches two days a week in the School and is concurrently undertaking the diploma in conscious sedation at the University of Newcastle. She also continues to work two days a week in general practice. Helen was appointed as Chair of the ABAOMS Education Committee at the conference last year and she is excited by the role. She is already enjoying the academic collaboration within the group and is looking forward to completing some good work together.

Jim Carey has been appointed Year 3 Lead and also co-chair of the professionalism thread of the curriculum.

Richard Moore is currently studying his PhD part time; focusing on the referral behaviour of practitioners and provision of oral surgery in England and exploring the educational and training which prepares undergraduate dental students for oral surgery practice as early career GDC Registrants. He continues to be actively involved with BAOS as a council member, the Royal College of Surgeons and educational training across the U.K.

Jerry Shaw's primary focus continues to be undergraduate clinical education. He supervises the majority of clinical exodontia by undergraduates within the department and is responsible for monitoring undergraduate competency and targeted clinical teaching.

We have been very pleased to welcome Huda Jawad and Christine Wanis, our Oral Surgery StRs. We are advertising an ACF post in OS in the near future.

The period 2017-18 has been a busy and productive time for the Newcastle Oral and Maxillofacial Surgery department. We were delighted with a number of successes for our team:

* Rachel Green obtaining her CCST and M.Oral Surg and also beginning a commercial collaboration in haptics simulation.

* Hannah Desai being awarded a Starter Grant for Education (RCS [Ed])

* Ian Corbett being appointed as Convener of Dental Exams and also to the Dental Executive (RCS [Ed])

* Mark Greenwood publishing the 2nd Edition of his highly successful 'Essentials of Human Diseases in Dentistry' (Wiley-Blackwell)

* Charlotte Currie being elected Secretary to the Dental Anaesthesiology Research group of IADR

Justin Durham being promoted to a personal Chair in Orofacial Pain and elected President of ABAOMS.

We have had two new oral surgery clinical fellows join the team: Emma Robinson and James Allison. In addition we have also appointed our first Clinical Psychologist Chris Penlington who has just been awarded a Wellcome Trust small grant to begin her research in TMD. As a team we've contributed to several international conferences both to present our pedagogical and clinical research and also as invited speakers or chairs at scientific conferences and symposia:

Local Anaesthesia in the diagnosis and management of orofacial pain. IADR Neuroscience, Dental Anesthesiology, and International Network for Orofacial pain and related disorders methodology symposium (2018). Chaired by C.Currie and J.Durham

Durham, J., Breckons, M., Vale, L. & Shen, J. (2018) DEEP Study: Modelling persistent orofacial pain's management costs and benefits. J Dent Res, 98, 1562.

Parten, N., Taylor, G., Currie, C.C., Durham, J. & Vernazza, C. (2018) Medical emergency department attendance of under 16 year olds with dental problems. J Dent Res, 98, 633.

Penlington, C., Araujo-Soares, V. & Durham, J. (2018) Do illness perceptions predict long-term persistent orofacial pain outcomes? J Dent Res, 98, 3060.

Stancliffe, H., Hicks, M., Durham, J. & Currie, C.C. (2018) Inter-examiner agreement grading in vitro surgical exodontia videos. J Dent Res, 98, 1452.

Invited presentation to Japanese and Indian joint Oral and Maxillofacial Surgery conference on Work based assessments. I.Corbett.

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Staff comprises of the Lead Professor Tara Renton, Undergraduate Lead Dr Nadine Khawaja, Senior Specialist Clinical Teacher Dr Louis McArdle and 16 part-time teachers with more planned recruitments.

Adam Lorincz has completed his term as locum lead for undergraduate teaching. Claire Dewshi was awarded the school prize for the ABAOMS essay.

Professor Tara Renton received Honorary AAOMS fellowship and delivered 24 plenary international lectures

Post graduate students

Masters in orofacial pain set up and got 5 overseas applicant but KCL would not run. Still not sure why

Louis McArdle PhD in write up
AALIA KARAMAT MPhil successful viva
Thomas Gill ACF primary care MRes in nerve injuries

Joint supervision with Leuven University
Frederic Van Klussen.

Lydia Melek visiting fellow in trigeminal neuralgia

Grants:

Application Reference Number: BRC-2016-10058 South London and Maudsley NHS Foundation Trust (SLaM) and King's College London (KCL) **Title of the proposed Research Theme:** Pain £3,825,000.00 2017

Translational research MRC Grant, 'Stratifying Chronic Pain Patients By Pathological Mechanism- A Multimodal Investigation Using Functional MRI, Psychometric And Clinical Assessment.' £2.4M 2017

Grunenthal British Pain Society Grant 2016 (£10,000) Portfolio study MRC funded **IRAS 243947** - Descending Modulation and Central Sensation in post-surgical pain. collaboration Wolfson and Centre Neuroscience imaging IoPPN

Bioresource IoPPN – Head and face pain group Pls Professor Peter Goadsby, Steve Williams, Lance McCracken, Tara Renton, Stephen McMahon, (11th Group IoPPN Bioresource group)

Clinical sphenopalatine simulation service KCH Neurology & St Thomas Hospital Orofacial pain and headache service (and other interventional procedures for head and neck pain) collaboration with 2 centres InPut Pain Management St Thomas Hospital (Lead Prof

Adnan AL Kaisi) and Neurology KCHFT/ KCL Lead Professor Goadsby

UCL Prof Praveen Anand Hammersmith Hospital Peripheral pain receptor immunohistochemistry work and publications

Portfolio study Developing Diagnostic criteria and Artificial online diagnostics for Orofacial pain

IRAS 173208 Stratification of patients presenting with orofacial pain

NewCastle University **IRAS No: 194728** - Understanding REpeat Attenders for emergency care Not continuing care: REAsOn study

NIHR bioresource Bridge neuropathic pain Oxford University NIHR rare diseases Prof David Bennett

Papers:

Leuven university

Iatrogenic trigeminal post-traumatic neuropathy: a retrospective two-year cohort study. Klazen Y, Van der Cruyssen F, Vranckx M, Van Vlierberghe M, Politis C, **Renton T**, Jacobs R. Int J Oral Maxillofac Surg. 2018 Jun;47(6):789-793. doi: 10.1016/j.ijom.2018.02.004. Epub 2018 Mar 6. Spanish Oral Surgery Society

Prevalence of neuropathic pain and sensory alterations after dental implant placement in a university-based oral surgery department: A retrospective cohort study. Vázquez-Delgado E, Viaplana-Gutiérrez M, Figueiredo R, **Renton T**, Gay-Escoda C, Valmaseda-Castellón E. Gerodontology. 2018 Jun;35(2):117-122. doi: 10.1111/ger.12326. Epub 2018 Feb 19

Association Dental Implant Society (Temple Uni Philadelphia USA)
A Survey of the Opinion and Experience of UK Dentists Part 3: An Evidence-Based Protocol of Surgical Risk Management Strategies in the Mandible. Ucer C, Yilmaz Z, Scher E, Suzuki J, **Renton T**. Implant Dent. 2017 Aug;26(4):532-540. doi: 10.1097/ID.0000000000000602.

American association of oral and maxillofacial surgery. Managing post-traumatic trigeminal neuropathic pain: is surgery enough? John R. Zuniga¹, Tara F. Renton² Journal Neurology and Neuromedicine Published on: October 8, 2016

The Cutting Edge

NIHR Bioresource Neuropathic pain Oxford university
Germline selection shapes the landscape of human mitochondrial DNA Wei Wei^{1,2}, Salih Tuna^{3,4}, Michael J Keogh¹, Katherine Smith⁵, Timothy J Aitman^{6,7}, Phil L Beales⁸, David L Bennett⁹ et al In press 2018 Following approval by the NIHR BioResource – Rare Diseases (BRIDGE) Principal Investigators earlier this year, we have carried out an analysis of mitochondrial DNA variants in the BioResource dataset in partnership with the Genomics England pilot. The study is not about the diagnosis of rare disease or cancer, but about the population genetics of mtDNA independent of the diagnosis. Our findings provide unanticipated added value to the work we have all been doing, and will hopefully be of interest to you.

Centre neuroscience imaging IoPPN
"Multivariate decoding of analgesic responses to post-surgical pain using cerebral blood flow imaging" by Jade Jackson, Duncan Hodgkinson, Nadine Khawaja, Tara Renton, Andre Marquand, Jonathan O'Muircheartaigh, Stephen McMahon, Steve Williams, and Matthew Howard [Paper #eN-TNWR-0182-18], eNeuro in press 2018

American association of Orofacial pain Published diagnostic criteria 2018
Chapter on neuropathic pain by T Renton & Prof Justin Durham BDS, MFDS RCS (ed), FDS RCS (OS), PhD Professor of Orofacial Pain, Newcastle University, UK, and Honorary Consultant Oral Surgeon Newcastle-Upon-Tyne Hospitals' NHS Foundation Trust, UK

Impact

Invited member International Classification of Orofacial Pain (ICOP) a grouping of international specialists from IASP, HIS, ICHD, AAPO, AACP forming the first all encompassing diagnostic criteria for acute and chronic orofacial pain.

Patient safety work, websites, LocSSIPs lead, lecturing and M3M and AMs guideline development invited member National Advisory Board Human factors in Dentistry
And have led the development of Oral Surgery as one of two new dental specialities since 2000.

Changed dental practice in relation to LA, M3M, Endo and Implant risk assessment and surgical practice

National and international reputation in OFP, oral surgery, prevention and management of V nerve injuries and Local anaesthesia

Chair M3M FDS RCS Guidelines due to be published Dec 2018

Awarded Honorary Fellowship AAOMS Sept 2017

Won "José Luis Ferrer Award" from the Spanish Society of Craniomandibular disorders and Orofacial Pain (SEDCYDO)

32 international invited key note/ plenary and distinguished lecture invitations over last 3 years

University Leuven co supervised PhD and Visiting Noel Martin Chair Sydney University
Joint PhD application Prof Bornstein Hong Kong university

Sydney University visiting Chair Noel Martin Award 2018

Distinguished Speaker Invitation Tuttleman Family Foundation and the Temple University Department of Periodontology and Oral Implantology

Dr. Bell is continuing her leadership as the Director of Dental Education of the University of Glasgow Dental School. Dr. Naudi is the 4th year coordinator. Dr. Goodall is the Head of Admissions and the Athena Swan SAT; Prof Ayoub is the Director of the postgraduate programme in Oral & Maxillofacial Surgery and the Glasgow research lead for the Scottish Craniofacial Research Group.

Postgraduate education/ activities

Four PhD students are currently supervised by Prof. Ayoub, Dr. Naudi & Dr. Bell, their research is focused on Tissue Bioengineering and multi-dimensional facial analysis. Our research team is leading the application of 4D imaging to assess abnormal facial movements, two full time PhD students are working exclusively on this research theme. The development of Glasgow Index of Facial Movements is underway.

The collaborative research with Huddersfield University on the application of Virtual Reality in illustrating Le Fort I osteotomy with interactive manipulation of 3D surgical models and instruments has been completed and PhD was awarded to Dr. Yeshwaneth Pulligja.

Ms. D. Al Rudainy completed her study on the 3D assessment of cleft lip and palate in infants and young children and obtained the PhD.

Professor Ayoub & Dr. Naudi are directing the postgraduate taught Master's in Oral & Maxillofacial Surgery which attracts international students from various countries of the world.

Dr. Goodall is supervising MSc in Global Health on The Impact of Navigator, A Scottish Emergency Department-Based Violence Reduction Intervention, On Those Who Have Experienced Intimate Partner Violence: A Qualitative Outcomes Evaluation as well as an MSc student in Medical Visualisation.

Prof Ayoub is collaborating with Strathclyde University to modernise the 3D prediction planning and the development of anatomic wafer to guide the orthognathic surgical correction of dentofacial deformities.

Glasgow will host the biennial international orthognathic course on 21-23 June 2019 in collaboration with colleagues from Hong Kong and South Korea. The course will focus on the "surgery first" approach, 3D planning and segmental osteotomies

Research:

The research profile is progressing from strength to strength; the team focused their research on 3D/4D imaging, bone bioengineering for oral & maxillofacial applications, and alcohol abuse with its associated violence. These research themes are now fully embedded and integrated within the Scottish Craniofacial Research Group which was established by Chief Dental Officer in Scotland in collaboration with the four Scottish Universities

Dr. Goodall is leading the West of Scotland in violence reduction. She is progressing the investigation on a mixed methods evaluation of the Navigator programme. Navigator was included in the Scottish Government's programme for Government this year. Medics against Violence has received a further £150K in funding from the Scottish Government this year to develop the MAV Interns peer education model and a community model of the domestic abuse training- as well a substantial further funding for the Navigator programme

Prof. Ayoub, Dr. Yang "The head of Image Processing of Greater Glasgow & Clyde Health Board" and Dr. A Bell are continuing their research in 3D/4D imaging for the evaluation of maxillofacial deformities..

Prof. Ayoub in collaboration with colleagues from Brazil completed the 3D craniofacial imaging of Zika virus babies who suffer from microcephaly. The analysis has commenced to link the phenotype with the brain damage recorded in the CT scans of the affected cases. Prof. Ayoub was invited to present the preliminary findings at the Conference of the International Association of Oral & Maxillofacial Surgery, in Rio de Janeiro, June 2019.

The collaborative research with colleagues at Biomedical Engineering, School of Engineering and the Centre for Cell Engineering, Institute of Molecular, Cell and Systems Biology is progressing well to investigate the application of the recent advances in tissue bioengineering for the reconstruction of critical-size maxillofacial bony defects. A new PhD student has joined the group and will be looking at the development of injectable scaffolds for tissue regeneration.

The Cutting Edge

Invited Presentations.

The team presented their research findings locally, nationally and internationally which includes Global health conference at Yale University, Connecticut, the WHO violence conference in Berlin, The STARS conference in Alexandria, the IADR Asian Division in Tehran, The international conference of Diffusion in Solid and Colloids in Amsterdam, International Conference in Cairo, Egypt.

Recent publications (2018):

1. Goodall CA, MacFie F, Conway DI, McMahon AD (2018) Assault-related sharp force injury among adults in Scotland 2001–2013: Incidence, socio-demographic determinants and relationship to violence reduction measures. *Aggression and Violent Behavior*. First published version available online: 19-OCT-2018. DOI information: 10.1016/j.avb.2018.10.002
2. Alagha, M. A., Ju, X., Morley, S, Ayoub, A. The reproducibility of the dynamics of facial expressions in unilateral facial palsy. *International Journal of Oral and Maxillofacial Surgery* 2018;47:268-275.
3. Al-Rudainy, D., Ju, X., Mehendale, F. and Ayoub, A. Assessment of facial asymmetry before and after the surgical repair of cleft lip in UCLP cases. *International Journal of Oral and Maxillofacial Surgery* 2018;47:268-275.
4. Yeshwanth Pulijala, Minhua Ma, Matthew Pears, David Peebles. An innovative virtual reality (VR) training tool for Orthognathic. *International Journal of Oral and Maxillofacial Surgery* 2018;47:1199-1205.
5. Pulijala Y, Ma M, Pears M, Peebles D, Ayoub A, Effectiveness of Immersive Virtual Reality in Surgical Training - A Randomized Control Trial, *Journal of Oral and Maxillofacial Surgery* 2018;76:1065-1072.
6. Al Mukhtar A, Khambay B, Ju X, McDonald J, Ayoub A. Comprehensive analysis of soft tissue changes in response to orthognathic surgery: Mandibular versus bimaxillary advancement. *Interntaional J Oral Maxillofacial Surgery* 2018;47:732-737.

7. Al Muzian M, McDonald J, Al Mukhtar A, Ju X, Ayoub A. Does rapid maxillary expansion affect nasopharyngeal airway? A prospective Cone Beam Computerised Tomography (CBCT) based study. *The Surgeons* 2018;16:1-8

8. Al-Rudainy, D., Ju, X., Mehendale, F. and Ayoub, A. Assessment of regional facial Asymmetry Before and After the Surgical Correction of Unilateral Cleft Lip *Journal of Cranio-Maxillofacial Surgery* 2018;46:974-978.

9. Al-Rudainy, D., Ju, X., Mehendale, F., Ayoub A. Longitudinal 3D assessment of facial asymmetry in Unilateral Cleft Lip and Palate (UCLP). *The Cleft Palate-Craniofacial Journal* 2018;47:411-419.

10. Almutairi T, Naudi K, Nairn N, Ju X, Whitters J, Ayoub A. Replacement of the distorted dentition of the Cone Beam Computed Tomography (CBCT) scans for orthognathic surgery planning. *Jouranal of Oral Maxillofacial Surgery* 2018;156:e1-8.

11. Vittert L, Katina L, Ayoub A, Khambay B, Bowman A. Assessing the Outcome of Orthognathic Surgery by Three-dimensional Soft Tissue Analysis. *Int J Oral Maxillofac Surg* 2018;47:1587-1595.

12. Al-Rudainy, D., Ju, X., Mehendale, F. and Ayoub, A. The impact of facial expressions on facial appearance of the surgically managed unilateral cleft lip and palate cases. *J Plast Reconstr Surg* (In press)

13. Al Jarsha M, Moulisova V, Leal-Egana A, Connell A, Naudi K, Ayoub A, Dalby M, Salmeron-Sanchez M. Engineered coatings for titanium implants to present ultralow doses of BMP-7. *ACS Biomater Sci Eng* 2018;4:1812-1819

14. Ayoub A, Gillgrass T. The application of BMP for the reconstruction of alveolar cleft; 10 years follow up. *Journal of Oral Maxillofac Surg* (DOI:10.1016/j/oms.2018.08.031)

15. Barceló Oliver, F, Kelly, P., Sharpe, S.J., Ayoub, A., Patterson-Kane, J.C., Pollock, P. J. Sclerosing odontogenic carcinoma in the mandible of a horse. *Equine Veterinary Education* (in

The Cutting Edge

Staffing

This year saw some much needed growth in the consultant body within the department of Oral Surgery and some new faces on the teaching side. We were thrilled to welcome Ed Bailey to a new Senior Clinical Lecturer/ Honorary Consultant post in Oral Surgery. Zoe Killick took up a substantive new NHS consultant post whilst Emma Quartey, took up a locum consultant post. Roberto Sacco started as a part-time clinical teacher in oral surgery one day a week. Fleur Mumford went on from maternity leave in the Spring and her maternity leave is being covered by 2 part-time clinical teachers – Lino Locurio & Alkisti Pantiora, each doing a day a week. Emily Carter returned from maternity leave to continue her StR training on a flexible basis and Neha Shah started as an ACF, while Anand Lalli continues as a ACL and is in his final year.

News

Judith Jones was re-elected to the Board of the Faculty of Dental Surgery RCS England for a second term and also takes over as Chair of the Fellowship and Awards Committee at FDSRCS England. Ed Bailey has been elected to sit on the council of BAOS for the next 3 years. He has been very active since joining the department working on patient safety issues within the dental institute and wider NHS Trust. He has worked with a team to revamp the SSCL for dental extractions and has worked hard to improve buy in of the whole process of safety checks for clinicians involved in exodontia. He is also working with Andrew Sadler on undergraduate textbook in Oral Surgery. Neha has settled well into life in the East End of London. She has started some educational projects as well working on Cochrane reviews with Ed. She has also shown she is a dab hand in the kitchen with sweet homemade treats appearing in the department on a regular basis.

Anand continues to work with many collaborators on the research side, in particular Professor Ahmad Waseem in the supervision of PhD students and they have successfully extended funding from the Rosetrees Trust for the commercialisation of a novel diagnostic test for head and neck cancer. Their PhD students were fortunate to have won prizes at both the British Association of Head and Neck Oncologists (BAHNO) and British Society for Oral and Dental Research (BSODR) annual scientific conferences this year.

Roberto has been recently appointed as External Examiner for the Diploma in Primary Care Oral Surgery (DPCOS) at the FGDP- RCS as well as an Editorial Board Member for the Global Journal of Oral Science. He has contributed a chapter on: Perfecting Implant-Related Esthetics Using Optimum Surgical Guides to the Fundamentals of Esthetic Implant Dentistry 3rd edition book. Somit Prasad gained a Diploma in Implant Dentistry from RCS Edinburgh.

Patricia Marsden was appointed Chair of the Board of Examiners for the Primary Care Diploma in Oral Surgery

Publications from staff members

Beyond ONJ – A review of the potential uses of bisphosphonates in dentistry. British Dental Journal, 222:72 –730. Shah NP, Nayee S, Pazianas M, Sprout C. 2017
A case of periradicular surgery on lower left first molar: apicectomy and obturation of the apex, a bold act” - Locurcio L; case report - IN PRESS - Stomatological disease and Science Journal (2017).

Campbell, S.J., H. Williams, L. Locurcio and A.Creedon. "Isolated Hypoglossal Nerve Palsy: A Case Report." J Neurol Neurosci 8 (2017): 2.

Campbell, S.J., L. Locurcio, and H. Witherow. "Conservative management of an inoperable arteriovenous malformation." British Journal of Oral and Maxillofacial Surgery (2017).

Grants

Neha Shah has been awarded two grants since starting at QMUL/Barts Health. One a grant of £1500 from ABAOMS towards a research project titled: Development of a higher fidelity model for suturing simulation. She is working towards the first pilot study of the newly designed suturing simulation model

She has also been awarded a travel grant by the NIHR to visit the USA to form links with the University of California, San Francisco and to give an oral presentation at the AAOMS annual meeting titled: A retrospective Review of Severe Osteoradionecrosis, based on work carried out in her previous job.

Anand Lalli has managed to secure funding for a full time post-doc researcher from Queen Mary Innovation Ltd to develop a diagnostic test for HPV-driven head and neck cancers.

The Cutting Edge