Enhancing the wellbeing of the UK oral healthcare

workforce

In 2023, the MINDSET U.K. collaboration, comprising experts in mental health and dentistry, invited all members of the dental team to take part in a survey to evaluate the current status of mental health and wellbeing of dental teams across the UK. There was a good response rate to the survey and data analysis is currently underway with plans to disseminate results over the coming months to policy, service and education leaders, as well as the wider dental community.

MINDSET U.K. believe this is the first time the whole dental team in the UK, including dentists, DCPs and technicians, practice managers and receptionists, have been surveyed, and they were appreciative of the time people gave to completing the questionnaires and contributing free text.

Dr Ian Mills said: 'It is always humbling when dental staff share their wellbeing stories, but extremely frustrating that we are not doing more to address many of the underlying problems. We must use this information to improve the situation in order to reduce the levels of stress which dental teams are experiencing on a daily basis.'

Members of the collaboration came together in person for the first time on 22 February in Dundee Dental Education Centre (pictured). The group took the opportunity to plan and prioritise future UK-wide research and implementation activities to enhance the wellbeing of the dental team in the UK.



Professor Jan Clarkson said, 'It is important that all stakeholders facilitate and champion well-being in the dental workplace. Ultimately we need a healthy, happy and motivated workforce to deliver high-quality oral health care for patients.' Further details will be shared in due course.

The current group composition is as follows: Professor Jan Clarkson, NHS Education for Scotland/University of Dundee; Laura Crawford, Public Health Agency Northern Ireland; Michael Donaldson, Health and Social Care Northern Ireland; Fiona Ellwood, Chair Mental Health Wellness in Dentistry Group; Professor Gerry Humphris, University of St Andrews; Dr Ilona Johnson, Public Health Wales; Jennifer

Knights, NHS Education for Scotland; Andrew Leitch, NHS Education for Scotland; Roz McMullan, Chair Probing Stress in Dentistry Northern Ireland; Margaret Mooney, NHS Education for Scotland; Dr Ian Mills, University of Plymouth; Professor Tim Newton, King's College London; Professor Robert Witton, University of Plymouth; and Dr Linda Young, NHS Education for Scotland.

If you are interested in learning more about this project visit https://www. sdpbrn.org.uk/current-projects/mentalhealth-in-dental-settings-u-k-projectmindset-u-k/ or contact Jennifer Knights, MINDSET U.K. Chief Investigator (Scotland) at Jennifer.Knights@nhs.scot.

Over a million new mothers miss out on free access to **NHS** dentistry

As MPs debate the prospect of extending free NHS dentistry to cancer patients*, the British Dental Association (BDA) has renewed its call for reform of NHS dentistry, with analysis of official data revealing one and a quarter million new mums have missed out on free dental care due to the pandemic.

Patients are entitled to free NHS dental care if they are pregnant when they start treatment, and for 12 months after the baby is born, but uptake for both groups crashed

during the pandemic.

In the five years prior to the pandemic, an average of over 840,000 maternity claims were made per year. This plummeted to 245,967 in 2020/21, to 490,298 in 2021/22, and to just 542,353 by 2022/23, leaving an estimated 1,241,838 maternity appointments lost since lockdown.

Hormonal changes during pregnancy can make gums more vulnerable to plaque, leading to inflammation and bleeding.

Changes to dietary habits and morning sickness can also damage teeth. Research also suggests that fever or infections from dental problems can also cause serious adverse effects for both mother and child.

The BDA believes charges are the wrong way to fund NHS dentistry, and says many groups have a strong case for exemption. However, it stresses these data show the reality is that there really isn't enough NHS dentistry to go round.

Commenting on the news, Preet Kaur Gill, Shadow Minister for Primary Care and Public Health, said: 'It's shocking that after 14 years of Tory mismanagement, vulnerable patients are unable to access the care they desperately need. Eight in ten NHS dentists aren't accepting any new adult NHS patients and in some areas it's 99%.

'Everyone should be able to access NHS care when they need it. It's particularly important for pregnant women and new mothers, due to the risk of poor oral health in pregnancy.

'Labour has a plan to rescue and rebuild NHS dentistry, funded by cracking down on tax dodgers. We will deliver 700,000 additional urgent appointments a year, recruit dentists to areas most in need, and get straight to work on reforming the outdated NHS dental contract.'

*Debate is a response to this petition: https://www.change.org/p/freedental-treatment-for-cancer-patients-change-the-law.

Tendency for infection and bacterial flora explain caries

Researchers at Umeå University in Sweden have for the first time been able to show that individual variation in susceptibility to infection and bacterial flora together explain recurrent caries in some and why others are asymptomatic. The results, which are important for the diagnosis and treatment of caries and other diseases, have been published in the journal *eBioMedicine*.¹

In two previous publications in *eBioMedicine*, a research group at Umeå University identified three basic types of caries disease through a fiveyear study on adolescents. Individual variation in the genes PRH1 and PRH2 was shown to predict future caries development and identify individuals with immunodeficiency caries and those with lifestyle caries from poor diet and oral hygiene, respectively. In addition, a bacterial caries type was detected where different types of the caries bacterium *Streptococcus mutans* matched the individual caries development.

The same research group now shows that the pattern of *PRH1*- and *PRH2*-encoded receptors for bacterial adhesion (adhesion) leads to different microbial profiles for caries development in prone and resistant individuals, respectively. Genetically caries-prone individuals developed caries from a broad profile of bacteria in the normal flora, undesirable individuals from a narrower profile, and resistant individuals from particularly disease-causing types of *S. mutans*. Infection with *S. mutans* was stable over time, and fewer individuals were infected with particularly pathogenic bacterial types.

Chronic infections with pathogens such as *S. mutans* (tooth decay), *S. pneumoniae* (pneumonia), and *S. pyogenes* (tonsillitis) are characterised by some individuals developing symptoms and chronic disease, while other infected individuals do not.

Nongfei Sheng, first author of the article, said: 'The phenomenon of individual variation is now explained by a combination of genetic predisposition and

resistance as well as how infectious the bacteria are.'

Many societies such as the Swedish one are characterised by comparatively high physiological uniformity – for example, up to 90% of children and adolescents brush their teeth morning and evening – which is why genetic differences today play a greater role in caries and other chronic diseases.

Nicklas Strömberg, last author and leader of the research group said: 'This knowledge is important for better prevention and treatment of these diseases. Resistant individuals who are also free of infection with naturally occurring bacteria and clinical symptoms may have been programmed with a microflora of a particularly benign nature. This is important for the development of pre- and probiotics.'

References

 Sheng N, Mårell L, Tumkur Sitaram R, Svensäter G, Westerlund A, Strömberg N. Human PRH1, PRH2 susceptibility and resistance and *Streptococcus* mutans virulence phenotypes specify different microbial profiles in caries. EBioMedicine 2024; doi: 10.1016/j.ebiom.2024.105001.

Pushing the boundaries – a conference dedicated to lingual orthodontics



The theme of the European Society of Lingual Orthodontics (ESLO) 2024 meeting is 'Contemporary Lingual Orthodontics in Daily Practice: Pushing the boundaries with lingual'. With the UK's Dr Asif Chatoo (pictured) as President and an exciting line-up of top international speakers, this is a must for any orthodontist interested in the lingual technique.

The four day conference in Amsterdam from 27–30 June is dedicated to advancing lingual orthodontics and fostering excellence in practice. The meeting consists of a scientific programme on 28 and 29 June and a practical pre-congress course on 27 June.

There is a busy social programme in the evenings and activities for family members who attend.

The ESLO team is committed to encouraging younger colleagues. There is a reduced fee for all registered students on MSc orthodontic courses while the pre-congress course is designed to allow delegates at the start of their lingual journey to spend the day working hands-on and learning from established professionals. Called 'From typodont to clinic', the tutors are Dr Chatoo, Dr Guillaume Lecocq, Dr Marie-Pierre Sache and Dr Enrico Albertini.