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cerebral microbleeds in humans. Oral Dis 2015; 21: 886–893.

- Eberhard J, Stumpp N, Winkel A *et al.* Streptococcus mitis and Gemella haemolysans were simultaneously found in atherosclerotic and oral plaques of elderly without periodontitis—a pilot study. *Clin Oral Investig* 2016; **21:** 447–452.
- Huck O, Saadi-Thiers K, Tenenbaum H, Davideau J L, Romagna C, Laurent Y. Evaluating periodontal risk for patients at risk of or suffering from atherosclerosis: recent biological hypotheses and therapeutic consequences. Arch Cardiovasc Dis 2011; 104: 352–358.
- Tonomura S, Ihara M, Kawano T *et al.* Intracerebral haemorrhage and deep microbleeds associated with cnm-positive Streptococcus mutans; a hospital cohort study. *Sci Rep* 2016; 6: 20074–20083.
- Kocgozlu L, Elkaim R, Tenenbaum H, Werner S. Variable cell responses to P. gingivalis lipopolysaccharide. *J Dent Res* 2009; 88: 741–745.
- Beck J, Garcia R, Heiss G, Vokonas P S, Offenbacher S. Periodontal disease and cardiovascular disease. J Periodontol 1996; 67: 1123–1137.
- Blasi C. The autoimmune origin of atherosclerosis. *Atherosclerosis* 2008, 201: 17–32.
- Scannapieco F A, Shay K. Oral health disparities in older adults: oral bacteria, inflammation, and aspiration pneumonia. *Dent Clin North Am* 2014; 58: 771–782.
- Scales B S, Erb-Downward J R, Huffnagle I M, Lipuma J J, Huffnagle G B. Comparative genomics of Pseudomonas fluorescens subclade III strains from human lungs. *BMC Genomics* 2015; 16: 1032–1049.
- Dickson R P, Erbdownward J R, Huffnagle G B. Homeostasis and its disruption in the lung microbiome. *Am* J Physiol Lung Cell Mol Physiol 2015; **390:** 1047–1055.
- Dickson R P, Erbdownward J R, Martinez F J, Huffnagle G B. The microbiome and the respiratory tract. *Physiol*ogy 2016; **78:** 381–386.
- Scannapieco F A. Pneumonia in nonambulatory patients: The role of oral bacteria and oral hygiene. *J Am Dent* Assoc 2006; **137**: S21–S25.

- Segal L N, Clemente J C, Tsay J C J *et al.* Enrichment of the lung microbiome with oral taxa is associated with lung inflammation of a Th17 phenotype. *Nat Microbiol* 2016; 1: 16031.
- Chhibbergoel J, Singhal V, Bhowmik D *et al.* Linkages between oral commensal bacteria and atherosclerotic plaques in coronary artery disease patients. *Npj Biofilms Microbiomes* 2016; 2: 7–20.
- Mäntylä P, Buhlin K, Paju S *et al.* Subgingival Aggregatibacter actinomycetemcomitans associates with the risk of coronary artery disease. *J Clin Periodontol* 2013; **40**: 583–590.
- Ogrendik M. Rheumatoid arthritis is linked to oral bacteria: etiological association. *Mod Rheumatol* 2009; 19: 453–456.
- Zhang X, Zhang D, Jia H *et al.* The oral and gut microbiomes are perturbed in rheumatoid arthritis and partly normalized after treatment. *Nat Med* 2015; 21: 895–905.
- Whitaker T B. Standardisation of mycotoxin sampling procedures: an urgent necessity. *Food Control* 2003; 14: 233–237.
- Xu X, He J, Xue J *et al.* Oral cavity contains distinct niches with dynamic microbial communities. *Environ Microbiol* 2015; **17**: 699–710.
- Luo W, Wen S, Yang L, Zheng G. Mucosal anti-caries DNA vaccine: a new approach to induce protective immunity against streptococcus mutans. *Int J Exp Pathol* 2017; **10**: 853–857.
- Hatta H, Tsuda K, Ozeki M et al. Passive Immunization against dental plaque formation in humans: effect of a mouth rinse containing egg yolk antibodies (IgY) specific to Streptococcus mutans. Caries Res 1997; 31: 268–274.
- Al-Ghananeem A M, Leung K P, Faraj J, DeLuca P P. Development of a sustained antiplaque and antimicrobial chewing gum of a decapeptide. AAPS PharmSciTech 2017; 18: 2240-2247.
- Khurshid Z, Najeeb S, Mali M *et al.* Histatin peptides: Pharmacological functions and their applications in dentistry. *Saudi Pharm J* 2016; 25: 25–31.

- Presa M, Ortiz A Z, Garabatos N et al. Cholera toxin subunit B peptide fusion proteins reveal impaired oral tolerance induction in diabetes-prone but not in diabetes-resistant mice. Eur J Immunol 2013; 43: 2969–2979
- Zhang T, Wang Z, Hancock R E, De I F C, Haapasalo M. Treatment of oral biofilms by a D-Enantiomeric Peptide. *Plos One* 2016; **11**: e0166997–e0167013.
- Twetman S, Derawi B, Keller M, Ekstrand K, Yucellindberg T, Stecksenblicks C. Short-term effect of chewing gums containing probiotic Lactobacillus reuteri on the levels of inflammatory mediators in gingival crevicular fluid. Acta Odontol Scand 2009; 67: 19–24.
- Zahradnik R T, Magnusson I, Walker C, Mcdonell E, Hillman C H, Hillman J D. Preliminary assessment of safety and effectiveness in humans of ProBiora 3™, a probiotic mouthwash. J Appl Microbiol 2009; 107: 682–690.
- Di Pierro F, Donato G, Fomia F et al. Preliminary paediatric clinical evaluation of the oral probiotic Streptococcus salivarius K12 in preventing recurrent pharyngitis and/or tonsillitis caused by Streptococcus pyogenes and recurrent acute otitis media. Int J Gen Med 2012; 5: 991–997.
- Ohshima T, Kojima Y, Seneviratne C J, Maeda N. Therapeutic application of synbiotics, a fusion of probiotics and prebiotics, and biogenics as a new concept for oral candida infections: a mini review. *Front Microbiol* 2016; 7: 10–18.
- Petrou I, Heu R, Stranick M *et al.* A breakthrough therapy for dentin hypersensitivity: how dental products containing 8% arginine and calcium carbonate work to deliver effective relief of sensitive teeth. *J Clin Dent* 2009; 20: 23–31.
- Que K, Fu Y, Lin L *et al.* Dentin hypersensitivity reduction of a new toothpaste containing 8.0% arginine and 1450 ppm fluoride: an 8-week clinical study on Chinese adults. *Am J Dent* 2010; **23 Spec No A:** 28A-35A.
- Schiff T, Delgado E, Zhang Y P, Cummins D, Devizio W, Mateo L R. Clinical evaluation of the efficacy of an in-office desensitizing paste containing 8% arginine and calcium carbonate in providing instant and lasting relief of dentin hypersensitivity. Am J Dent 2009; 22 Spec No A: 8A-16A.

Correction

Research article Br Dent J 2018; 224: 113–115.

When this article was initially published a paragraph on page 115 was incorrect. The corrected paragraph reads as follows:

The culmination of the three-year programme is defined by the satisfactory completion of the Annual Review of Competence Progression (ARCP) process and attainment of the Membership in Restorative Dentistry (MRD) (soon to be replaced with Membership in Periodontology, Membership in Endodontics and Membership in Prosthodontics) within the speciality which enables the individual to register onto the General Dental Council's specialist list relevant to their training.

The author apologises for this error and any inconvenience caused.