

## References Nutrition I-Mag Jan/Feb

### Cleanse feature:

#### Beth Morris:

- <sup>i</sup> Peckham S et al. Are fluoride levels in drinking water associated with hypothyroidism prevalence in England? A large observational study of GP practice data and fluoride levels in drinking water. *J Epidemiol Community Health*. 2015; 69 (7): 619-24
- <sup>ii</sup> Kerkeni M et al. Hyperhomocysteinemia, paraoxonase activity and risk of coronary artery disease. *Clin Biochem*. 2006; 39 (8): 821-5
- <sup>iii</sup> Moravek MB, Bulun, SE. Endocrinology of uterine fibroids: steroid hormones, stem cells and genetic contribution. *Curr Opin Obstet Gynecol*. 2015; 27 (4): 276-283.
- <sup>iv</sup> Reis FM et al. Endometriosis: hormone regulation and clinical consequences of chemotaxis and apoptosis. *Hum Reprod Update*. 2013; 19 (4): 406-418

#### Hannah Braye:

- 1 Hodges RE, Minich DM. Modulation of Metabolic Detoxification Pathways Using Foods and Food-Derived Components: A Scientific Review with Clinical Application. *J Nutr Metab* 2015; **2015**: 760689.
- 2 La Merrill M, Emond C, Kim MJ, et al. Toxicological function of adipose tissue: focus on persistent organic pollutants. *Environ Health Perspect* 2013; **121**: 162-9.
- 3 Stice E, Davis K, Miller NP, Marti CN. Fasting increases risk for onset of binge eating and bulimic pathology: a 5-year prospective study. *J Abnorm Psychol* 2008; **117**: 941-6.
- 4 Kim JA, Kim JY, Kang SW. Effects of the Dietary Detoxification Program on Serum  $\gamma$ -glutamyltransferase, Anthropometric Data and Metabolic Biomarkers in Adults. *J Lifestyle Med* 2016; **6**: 49-57.
- 5 Baer-Dubowska W, Szaefer H. Modulation of carcinogen-metabolizing cytochromes P450 by phytochemicals in humans. *Expert Opin Drug Metab Toxicol* 2013; **9**: 927-41.
- 6 Ibrahim F, Halttunen T, Tahvonen R, Salminen S. Probiotic bacteria as potential detoxification tools: assessing their heavy metal binding isotherms. *Can J Microbiol* 2006; **52**: 877-85.
- 7 Daisley BA, Monachese M, Trinder M, et al. Immobilization of cadmium and lead by *Lactobacillus rhamnosus* GR-1 mitigates apical-to-basolateral heavy metal translocation in a Caco-2 model of the intestinal epithelium. *Gut Microbes* 2018; : 1-13.
- 8 Mennigen R, Bruewer M. Effect of Probiotics on Intestinal Barrier Function. *Ann N Y Acad Sci* 2009; **1165**: 183-9.
- 9 Szabo G, Bala S, Petrasek J, Gattu A. Gut-liver axis and sensing microbes. *Dig Dis* 2010; **28**: 737-44.

#### Dr Elisabeth Philipps:

<sup>1</sup> <http://www.who.int/mediacentre/factsheets/fs355/en/> (accessed Jan 2018)

<sup>2</sup> World Health Organization . Global Health Observatory 2011.

<http://www.who.int/gho/ncd/en/index.html>. Accessed 2018.

- <sup>3</sup> Terzic A, Waldman S. Chronic diseases: the emerging pandemic. Clin Transl Sci. 2011 Jun;4(3):225-6. [Full Paper](#)
- <sup>4</sup> Thorton et al (2002) Biomonitoring of industrial pollutants: Health policy implications of the chemical body burden. Public Health Reports 117 [Full paper](#)
- <sup>5</sup> [Environmental Working Group](#)
- <sup>6</sup> Niemann B, Rohrbach S, Miller MR, Newby DE, Fuster V, Kovacic JC. Oxidative Stress and Cardiovascular Risk: Obesity, Diabetes, Smoking, and Pollution: Part 3 of a 3-Part Series. J Am Coll Cardiol. 2017 Jul 11;70(2):230-25 [View abstract](#)
- <sup>7</sup> Niemann B, Rohrbach S, Miller MR, Newby DE, Fuster V, Kovacic JC. Oxidative Stress and Cardiovascular Risk: Obesity, Diabetes, Smoking, and Pollution: Part 3 of a 3-Part Series. J Am Coll Cardiol. 2017 Jul 11;70(2):230-25 [View abstract](#)
- <sup>8</sup> Thorton et al (2002) Biomonitoring of industrial pollutants: health and policy implications of the chemical body burden. Public Health Records 117:315 [Full paper](#)
- <sup>9</sup> Chen D, Kannan K, Tan H, Zheng Z, Feng YL, Wu Y, Widelka M. Bisphenol Analogues Other Than BPA: Environmental Occurrence, Human Exposure, and Toxicity-A Review. Environ Sci Technol. 2016 Jun 7;50(11):5438-53 [View abstract](#)
- <sup>10</sup> Jia Zhong, et al. B vitamins attenuate the epigenetic effects of ambient fine particles in a pilot human intervention trial. March 28, 2017, of Proc Natl Acad Sci USA 114:3503–3508 [Full paper](#)

### **Men's health feature:**

#### **Jenny Logan:**

- (1) [www.gov.uk/government/publications/health-profile-for-england-2018](http://www.gov.uk/government/publications/health-profile-for-england-2018)
- (2) Therapie. 1999 May-Jun;54(3):381-5; Oestrogens and the heart; Rosano GM1, Panina G.
- (3) Cardiovascular Diabetology 2018; 17:122; Association between insulin resistance and the development of cardiovascular disease; Valeska Ormazabal et al.
- (4) The Samaritans Research Report; Men, Society and Suicide, 2012; Clare Wyllie, Stephen Platt, Julie Brownlie, Amy Chandler, Sheelagh Connolly, Rhiannon Evans, Brendan Kennelly, Olivia Kirtley, Graham Moore, Rory O'Connor and Jonathan Scourfield
- (5) J Reprod Infertil. 2018 Apr-Jun; 19(2): 69–81; Zinc is an Essential Element for Male Fertility: A Review of Zn Roles in Men's Health, Germination, Sperm Quality, and Fertilization; Ali Fallah et al.
- (6) PNAS 2017; Selenium deficiency risk predicted to increase under future climate change; Gerrad D. Jones et al.
- (7) BMJ 2010; Diagnosis and management of vitamin D deficiency
- (8) Pingitore et al., 1997; Neumark-Sztainer et al., 1999; Davy et al., 2006
- (9) Wardle et al., 2004; Arganini et al., 2012.

### **Eczema feature:**

#### **Jenny Bodenham:**

- (1) Office for National Statistics. 2016 UK mid-year population estimate. Available at:  
<http://www.ons.gov.uk/generator?uri=/peoplepopulationandcommunity/populationandmigration/populationestimates/datasets/ukmidyearpopulationestimates>

- [ionandmigration/populationestimates/articles/overviewoftheukpopulation/february2016/ff1144ea&format=xls](https://ionandmigration/populationestimates/articles/overviewoftheukpopulation/february2016/ff1144ea&format=xls) (Accessed: April 2017)
- (2) Tsakok, T., McKeever, T.M., Yeo, L. and Flohr, C. (2013), Does early life exposure to antibiotics increase the risk of eczema? A systematic review. *British Journal of Dermatology*, 169: 983–991. doi: 10.1111/bjd.12476
  - (3) Chang YS, Trivedi MK, Jha A, Lin YF, Dimaano L, Garcia-Romero MT. Synbiotics for prevention and treatment of atopic dermatitis: a meta-analysis of randomized clinical trials. *JAMA Pediatr.* 2016;170(3):236–42.
  - (4) S.Y. Oh et al. (2010) Antioxidant nutrient intakes and corresponding biomarkers associated with the risk of atopic dermatitis in young children European Journal of Clinical Nutrition. Epub ahead of print. DOI:10.1038/ejcn.2009.148
  - (5) Kim MJ, Kim SN, Lee YW, Choe YB, Ahn KJ. Vitamin D Status and Efficacy of Vitamin D Supplementation in Atopic Dermatitis: A Systematic Review and Meta-Analysis. *Nutrients*. 2016 Dec 3;8(12).
  - (6) Kim G, Bae JH. Vitamin D and atopic dermatitis: A systematic review and meta-analysis. *Nutrition*. 2016 Sep;32(9):913-20.

### **Jenny Logan:**

- (1) Medical News Today, November 2017, James McIntosh
- (2) Br J Dermatol. 2006 Oct;155(4):680-7., Gong JQ et al
- (3) Figure based on 23% of predicted population of 65,110,000 people in 2015, Office for National Statistics – “The prevalence of AD is estimated to be 15–20% in children and 1–3% in adults” source: S. Nutten. ‘Atopic Dermatitis: Global Epidemiology and Risk Factors’. *Annals of Nutrition and Metabolism* 2015; 66 (suppl 1):8–16
- (4) Data obtained from Health and Social Care Information Centre. Prescription cost analysis. England 2015. April 2016.
- (5) Allergy Proceed 10 (1989); 265-9; AW Burks et al
- (6) Allergology International, Volume 64, Issue 1, January 2015, Pages 27-34, Jun Miyata
- (7) Allergy Asthma Immunol Res. 2018 Jul; 10(4): 354–362; So-Yeon Lee et al.
- (8) J Allergy Clin Immunol, June 2008; Gideon Lack, MD
- (9) Br J Dermatol. 1984 Nov;111(5):597-601; David TJ et al.
- (10) Brit J Dermatol 130 (1994); 757-64; E. Soyalnd et al
- (11) Appl Microbiol Biotechnol (2015) 99:5613; I.Presti et al;
- (12) Synblance LP a super performing probiotic strain, MutaCos 2012.
- (13) Front Microbiol. 2018; 9: 1459; The Gut Microbiome as a Major Regulator of the Gut-Skin Axis; Iman Salem et al.

### **Natalie Lamb:**

1. Cartwright P. 2011. *Probiotic Allies. How to Maximise the Health Benefits of your Microflora*. Prentice Publishing, Ilford. pp40-49.
2. Vassallo MF, Walker WA. 2008. Neonatal microbial flora and disease outcome. *Nestle Nutr Workshop Ser Pediatr Program*. 61:211-24.
3. Borchers AT, Selmi C, Meyers FJ, Keen CL, Gershwin ME. 2009. Probiotics and immunity. *J Gastroenterol.* 44(1):26-46.
4. Vighi G, Marcucci F, Sensi L, Di Cara G, Frati F. 2008. Allergy and the gastrointestinal system. *Clin Exp Immunol.* Sep;153 Suppl 1:3-6.

5. Thum C, Cookson AL, Otter DE, McNabb WC, Hodgkinson AJ, Dyer J, Roy NC. 2012. Can nutritional modulation of maternal intestinal microbiota influence the development of the infant gastrointestinal tract? *J Nutr.* Nov;142(11):1921-8.
6. Ly NP, Litonjua A, Gold DR, Celedón JC. 2011. Gut microbiota, probiotics, and vitamin D: interrelated exposures influencing allergy, asthma, and obesity? *J Allergy Clin Immunol.* May;127(5):1087-94.
7. Geoghegan JA, Irvine AD, Foster TJ. Staphylococcus aureus and Atopic Dermatitis: A Complex and Evolving Relationship. *Trends Microbiol* 2017. [Epub ahead of print]
8. Farid R, Ahanchian H, Jabbari F, Moghiman T. 2011. Effect of a New Synbiotic Mixture on Atopic Dermatitis in Children: a Randomized-Controlled Trial. *Iran J Pediatr.* 21(2): 225-230.
9. Drago L, Toscano M, De Vecchi E, Piconi S, Iemoli E. 2012. Changing of fecal flora and clinical effect of *L. salivarius* LS01 in adults with atopic dermatitis. *J Clin Gastroenterol.* Oct;46 Suppl:S56-63.
10. Allen SJ, Jordan S, Storey M, Thornton CA, Gravenor MB, Garaiova I, Plummer SF, Wang D, Morgan G. 2014. Probiotics in the prevention of eczema: a randomised controlled trial. *Arch Dis Child.* Nov;99(11):1014-9.

### **Ask the experts:**

#### **Rose Holmes:**

- <sup>1</sup> Satia MC, Mukim AG Tibrewala KD, Bhavsar MS (2015) Nutrition Journal 14:114  
<sup>2</sup> Makwana S, Kharadi R (2018) World Journal of Pharmacy and Pharmaceutical Sciences 7(9):1300-1306  
<sup>3</sup> Materson et al (2001) United States Patent US 6,200,550 B1

#### **Sue McGarrigle:**

Chigusa Nakahashi-Oda, Kankamam Gamage Sanath Udayanga, Yoshiyuki Nakamura, Yuta Nakazawa, Naoya Totsuka, Haruka Miki, Shuichi Iino, Satoko Tahara-Hanaoka, Shin-ichiro Honda, Kazuko Shibuya, Akira Shibuya. Apoptotic epithelial cells control the abundance of Treg cells at barrier surfaces. *Nature Immunology*, 2016; DOI: 10.1038/ni.3345

Health and nutritional properties of pears (*Pyrus*): a literature review. Genevieve James-Martin, Gemma Williams, Welma Stonehouse, Nathan O'Callaghan, Manny Noakes

Canani RB, Costanzo MD, Leone L, Pedata M, Meli R, Calignano A. Potential beneficial effects of butyrate in intestinal and extraintestinal diseases. *World Journal of Gastroenterology : WJG.* 2011;17(12):1519-1528

Ripening-induced chemical modifications of papaya pectin inhibit cancer cell proliferation

Samira Bernardino Ramos do Prado, Gabrielle Fernandez Ferreira, Yosuke Harazono, Tânia Misuzu Shiga, Avraham Raz, Nicholas C. Carpita & João Paulo Fabi

Scientific Reports volume 7, Article number: 16564 (2017)

The influence of pomegranate by-product and punicalagins on selected groups of human intestinal microbiota. Bialonska et al International Journal of Food Microbiology 140 (2010) 175–182.

Does larch arabinogalactan enhance immune function? A review of mechanistic and clinical trials. Carine Dion, Nutr Metab (Lond).2016;13: 28.  
Larch arabinogalactan: clinical relevance of a novel immune-enhancing polysaccharide.  
Kelly GS. Altern Med Rev. 1999 Apr;4(2):96-103.

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i Peckham S et al. Are fluoride levels in drinking water associated with hypothyroidism prevalence in England? A large observational study of GP practice data and fluoride levels in drinking water. J Epidemiol Community Health. 2015; 69 (7): 619-24

ii Kerkeni M et al. Hyperhomocysteinemia, paraoxonase activity and risk of coronary artery disease. Clin Biochem. 2006; 39 (8): 821-5

iii Moravek MB, Bulun, SE. Endocrinology of uterine fibroids: steroid hormones, stem cells and genetic contribution. Curr Opin Obstet Gynecol. 2015; 27 (4): 276-283.

iv Reis FM et al. Endometriosis: hormone regulation and clinical consequences of chemotaxis and apoptosis. Hum Reprod Update. 2013; 19 (4): 406-418