

## Human Nutristasis Unit: Peer reviewed publications

Ewang-Emukowhate M, **Harrington DJ**, Botha A, McGowan B, Wierzbicki AS. Vitamin K and other markers of micronutrient status in morbidly obese patients before bariatric surgery. *Int J Clin Pract*. 2014 Dec 11.

**Card DJ**, Francis S, Deuchande K, **Harrington DJ**. Superwarfarin poisoning and its management. *BMJ Case Reports*. 2014 Oct 13.

**Sobczyńska-Malefora A, Harrington DJ, Voong K, Shearer MJ**. Plasma and red cell reference intervals of 5-methyltetrahydrofolate of healthy adults in whom biochemical functional deficiencies of folate and vitamin B12 had been excluded. *Advances in Haematology*. 2014 Jan 15.

**Card DJ, Gorska R, Cutler J, Harrington DJ**. Vitamin K metabolism: Current knowledge and future research. *Molecular Nutrition and Food Research*. 2014 ;58(8):1590-600.

**Sobczyńska-Malefora A, Gorska R, Pelisser M, Ruwona P, Witchlow B, Harrington DJ**. An audit of holotranscobalamin ("Active" B12) and methylmalonic acid assays for the assessment of vitamin B12 status: application in a mixed patient population. *Clinical Biochemistry*. 2014 ;47:82-6.

**Shearer MJ**, Newman P. Recent trends in the metabolism and cell biology of vitamin K with special reference to vitamin K cycling and MK-4 biosynthesis. *J Lipid Res*. 2014 ;55(3):345-62.

Fleming JD, Martin B, **Card DJ**, Mellerio JE. Pain, purpura and curly hairs. *Clinical and Experimental Dermatology*. 2013 ;38(8):940-2.

Li Q, Gao H, Chou D, **Harrington DJ**, Schurgers LJ, Terry SF, Uitto J. Warfarin accelerates ectopic mineralization in *Abcc6*<sup>-/-</sup> mice – Clinical relevance to pseudoxanthoma elasticum. *American Journal of Pathology*. 2013 ;182(4):1139-50.

**Voong K, Harrington D, Goldsmith D**. Vitamin K status in chronic kidney disease – A report of a study and a mini-review. *Int Urol Nephrol*. 2013; 45(5):1339-44.

Theuwissen E, Teunissen KJ, Spronk HM, Hamulyák K, Ten Cate H, **Shearer MJ**, Vermeer C, Schurgers LJ. Effect of low-dose supplements of menaquinone-7 (vitamin K<sub>2</sub>) on the stability of oral anticoagulant treatment: dose-response relationship in healthy volunteers. *J Thromb Haemost.* 2013;11(6):1085-92.

Plank RM, Steinmetz T, Sokal DC, **Shearer MJ**, Data S. Vitamin K deficiency bleeding and early infant male circumcision in Africa. *Obstet Gynecol.* 2013 ;122:503-5.

**Harrington** DJ, Booth L, Dando N, Cottingham L, Beynon T. Vitamin K deficiency in cancer patients referred to a hospital palliative care team with bleeding and the impact of vitamin K replacement on laboratory indicators of vitamin K status. *Int J Lab Haem* 2012; 35(4):457-9

Farley SM, Leonard SW, Labut EM, Raines HF, **Card** DJ, **Harrington** DJ, Mustacich DJ, Traber MG. Vitamin E decreases extra-hepatic menaquinone-4 concentrations in rats fed menadione or phyloquinone. *Mol Nutr Food Res.* 2012; **56**:912-22

Moore GW, Thomson G, **Harrington** DJ. Warfarin monitoring: standard practice and beyond. Nova. Hauppauge, N.Y. ISBN: 978-1-62100-189-8, 2012 [Book]

**Harrington** DJ, Siddiq S, Allford SL, Shearer MJ, Mumford AD. Endoplasmic reticulum loop VKORC1 substitutions cause warfarin resistance but do not diminish gamma-carboxylation of the vitamin K-dependent coagulation factors. *JTH.* 2011; **9**: 1093-1095

Manghat P, Souleimanova I, Cheung J, Wierzbicki AS, **Harrington** DJ, **Shearer** MJ, Chowiencki P, Fogelman I, Nerlander M, Goldsmith D, Hampson G. Association of bone turnover markers and arterial stiffness in pre-dialysis chronic kidney disease (CKD). *Bone.* 2011; **48**: 1127- 1132

**Shearer** MJ, Gorska R, **Harrington** DJ, Schurgers LJ, Newman P. Vitamin K. In: Vitamins and vitamin-like nutrients for prevention of human diseases (p 515 – 560). Editors: W Herrmann & R Obeid. Verlag de Gruyter, GmbH & Co.KG, 2011 [Book chapter]

**Gorska** R and **Harrington** DJ. Vitamin deficiencies in patients with terminal cancer. In: Handbook of diet and nutrition for palliative care (p 301 – 314). Editor: Preedy V. CRC Press, 2011 [Book chapter]

**Shearer MJ, Fu X, Booth SL.** Vitamin K nutrition, metabolism, and requirements: current concepts and future research. *Advances in Nutrition*. 2012; **3**(2):182-95.

Knapen MH, Schurgers LJ, **Shearer MJ**, Newman P, Theuwissen E, Vermeer C. Association of vitamin K status with adiponectin and body composition in healthy subjects: uncarboxylated osteocalcin is not associated with fat mass and body weight. *British Journal of Nutrition*. 2011; **5**:1-8.

Holmes MV, Hunt BJ, **Shearer MJ**. The role of dietary vitamin K in the management of oral vitamin K antagonists. *Blood Reviews*. 2012; **26**(1):1-14.

**Harrington DJ, Siddiq S, Allford SL, Shearer MJ, Mumford AD.** More on: endoplasmic reticulum loop VKORC1 substitutions cause warfarin resistance but do not diminish gamma-carboxylation of the vitamin K-dependent coagulation factors. *Journal of Thrombosis and Haemostasis*. 2011; **9**(5):1093-5.

**Harrington DJ, Clarke P, Card DJ, Mitchell SJ, Shearer MJ.** Urinary excretion of vitamin K metabolites in term and preterm infants: relationship to vitamin K status and prophylaxis. *Paediatric Research*. 2010; **68**(6):508-12.

Chuansumrit A, Plueksacheeva T, Hanpinitak S, Sangworn S, Chatvutinun S, Suthutvoravut U, Herabutya Y, **Shearer M.** Prevalence of subclinical vitamin K deficiency in Thai newborns: relationship to maternal phylloquinone intakes and delivery risk. *Archive of Diseases of Childhood, Foetal and Neonatal edition*. 2010; **95**(2).

**Card DJ, Shearer MJ, Schurgers LJ and Harrington DJ.** The external quality assurance of phylloquinone (vitamin K<sub>1</sub>) analysis in human serum. *Biomedical Chromatography*. 2009; **23**: 1276-1282.

**Shearer MJ.** Vitamin K in parenteral nutrition. *Gastroenterology*. 2009; **137**:105-18.

Macdonald HM, Hardcastle AC, Duthie GG, Duthie SJ, Aucott L, Sandison R, **Shearer MJ, Reid DM.** Changes in vitamin biomarkers during a 2-year intervention trial involving increased fruit and vegetable consumption by free-living volunteers. *British Journal of Nutrition*. 2009; **102**:1477-86.

**Sobczyńska-Malefora A, Harrington DJ, Lomer MC, Pettitt C, Hamilton S, Rangarajan S, Shearer MJ.** Erythrocyte folate and 5-methyltetrahydrofolate levels decline during 6 months of oral anticoagulation with warfarin. *Blood Coagulation and Fibrinolysis*. 2009; 20:297-302.

Bonjour JP, Guéguen L, Palacios C, **Shearer MJ**, Weaver CM. Minerals and vitamins in bone health: the potential value of dietary enhancement. *British Journal of Nutrition*. 2009; 101:1581-96.

**Shearer MJ** and Newman P. Metabolism and cell biology of vitamin K. *Thrombosis and Haemostasis*. 2008; **100**(4):530-47.

**Shearer MJ.** Vitamin K deficiency bleeding (VKDB) in early infancy. *Blood Review*. 2009; **23**:49-59.

**Harrington DJ, Gorska R, Wheeler R, Davidson S, Murden S, Morse C, Shearer MJ, Mumford AD.** Pharmacodynamic resistance to warfarin is associated with nucleotide substitutions in VKORC1. *Journal of Thrombosis and Haemostasis*. 2008; **6**(10):1663-70.

**Harrington DJ, Western H, Seton-Jones C, Rangarajan S, Beynon T and Shearer MJ.** Study of the prevalence of vitamin K deficiency in patients with cancer referred to a hospital palliative care team and its association with abnormal haemostasis. *Journal of Clinical Pathology*. 2008; **61**(4):537-40.

Mumford AD, **Harrington DJ** and **Shearer MJ.** The mechanisms and management of warfarin resistance. *Thrombus* 2007; 11(1).

**Harrington DJ, Booth SL, Card DJ and Shearer MJ.** Excretion of the Urinary 5C- and 7C-Aglycone Metabolites of Vitamin K by Young Adults Responds to Changes in Dietary Phylloquinone and Dihydrophyllloquinone Intakes. *Journal of Nutrition*. 2007; **137**:1763-1768.

Kaptoge S, Dalzell N, Folkard E, Doody D, Khaw KT, Beck TJ, Loveridge N, Mawer EB, Berry JL, **Shearer MJ**, Dowsett M, Reeve J. Sex hormone status may modulate rate of expansion of proximal femur diameter in older women alongside other skeletal regulators. *Journal of Clinical Endocrinology and Metabolism* 2007; **92**:304-313.

Bolton-Smith C, McMurdo MET, Paterson CR, Mole PA, Harvey JM, Fenton ST, Prynne CJ, Mishra GD, **Shearer** MJ. Two-year randomized controlled trial of vitamin K<sub>1</sub> (phylloquinone) and vitamin D<sub>3</sub> plus calcium on the bone health of older women. *Journal of Bone and Mineral Research* 2007; **22**:509-519.

Clarke P and **Shearer** MJ. Vitamin K deficiency bleeding: the readiness is all. *Archives of Disease in Childhood*, 2007; **92**:741-743.

Clark P, **Shearer** MJ. Vitamin K deficiency bleeding after missed prophylaxis: rapid synergistic effect of vitamin K therapy on hemostasis. *Southern Medical Journal* (Letter) 2007; **100**: 612-613.

Thijssen HHW, Vervoort LMT, Schurgers LJ, **Shearer** MJ. Menadione is a metabolite of oral vitamin K. *British Journal of Nutrition* 2006; **95**: 260-266.

Cockayne S, Adamson J, Lanham-New S, **Shearer** MJ, Gilbody S, Torgerson DJ. Vitamin K and the prevention of fractures: systematic review and meta-analysis of randomized controlled trials. *Archives of Internal Medicine* 2006; **166**: 1256-1261.

Kruger MC, Booth CL, Coad J, Schollum LM, Kuhn-Sherlock B, **Shearer** MJ. Effect of calcium fortified milk supplementation with or without vitamin K on biochemical markers of bone turnover in premenopausal women. *Nutrition*. 2006; **22**:1120-1128.

Clarke P, Mitchell SJ, Wynn R, Sundaram S, Speed V, Gardener E, Roeves D, **Shearer** MJ. Vitamin K prophylaxis for preterm infants: a randomized controlled trial of 3 regimens. *Pediatrics* 2006; **118**:1657-1666.

Beavan SR, Prentice A, Stirling DM, Dibba B, Yan L, **Harrington** DJ and **Shearer** MJ. Ethnic differences in osteocalcin  $\gamma$ -carboxylation, plasma phylloquinone (vitamin K<sub>1</sub>) and apolipoprotein E genotype. *European Journal of Clinical Nutrition*. 2005; **59**(1):72-8

Merette SAM, **Harrington** DJ, **Shearer** MJ and Savidge GF. The diagnosis and monitoring of superwarfarin poisoning by liquid chromatography-electrospray ionisation-tandem mass spectrometry. *Blood*. 2005;**106**(11):87B-87B.

Clarke P, Mitchell SJ, Sundaram S, Sharma V, Wynn R and **Shearer** MJ. Vitamin K status of preterm infants with a prolonged prothrombin time. *Acta Paediatrica* 2005; **94**(12):1822-4.

Conway SP, Wolfe SP, Brownlee KG, White H, Oldroyd B, Truscott JG, Harvey JM and **Shearer** MJ. Vitamin K status among children with cystic fibrosis and its relationship to bone mineral density and bone turnover. *Pediatrics*. 2005; **115**(5):1325-31.

**Harrington** DJ, Soper R, Edwards C, Savidge GF, Hodges SJ and **Shearer** MJ. Determination of the urinary aglycone metabolites of vitamin K by HPLC with redox-mode electrochemical detection. *Journal of lipid research*, 2005; **46**:1053-1060.

Pavlu J, **Harrington** DJ, **Voong** K, Savidge GF, Jan-Mohamed R and Kaczmariski R. Superwarfarin poisoning. *Lancet*, 2005; 365:628.

Pereira SP, Rowbotham D, Fitt S, **Shearer** MJ, Wendon and Williams R. Pharmacokinetics and efficacy of oral versus intravenous mixed-micellar phylloquinone (vitamin K<sub>1</sub>) in severe acute liver disease. *Journal of hepatology*, 2005; **42**(3):365-70.

**Harrington** DJ, Underwood S, Morse C, **Shearer** MJ, Tuddenham EGD and Mumford AD. Pharmacodynamic resistance to warfarin associated with a Val66Met substitution in vitamin K epoxide reductase complex subunit 1. *Thrombosis and Haemostasis*, 2005; **93**:23-6.

Beavan SR, Prentice A, Stirling DM, Dibba B, Yan L, **Harrington** DJ and **Shearer** MJ. Ethnic differences in osteocalcin gamma-carboxylation, plasma phylloquinone (vitamin K<sub>1</sub>) and apolipoprotein E genotype. *European Journal of Clinical Nutrition*, 2005; **59**(1):72-81.

Wang LY, Bates CJ, Yan L, **Harrington** DJ, **Shearer** MJ and Prentice A. Determination of phylloquinone (vitamin K<sub>1</sub>) in plasma and serum by HPLC with fluorescence detection. *Clinica Chimica Acta*. 2004; **347**:199-207.

**Harrington** DJ, **Malefora** A, Schmeleva V, Kapustin S, Papayan L, Blinov M, Harrington P, Mitchell M, Savidge GF. Genetic Variations Observed in Arterial and Venous Thromboembolism – Relevance for Therapy, Risk Prevention and Prognosis. *Clinical Chemistry and Laboratory Medicine*. 2003; **41**(4):496-500.

Pereira SP, **Shearer** MJ, Williams R and Mieli-Vergani G, Intestinal absorption of mixed micellar phylloquinone (vitamin K<sub>1</sub>) is unreliable in infants with conjugated hyperbilirubinaemia: implications for oral prophylaxis of vitamin K deficiency bleeding, *Archives of Disease in Childhood, Fetal & Neonatal Edition*, 2003; **88**(2):113-8.

**Sobczynska-Malefora** A, **Harrington** DJ, Rangarajan S, Kovacs J, **Shearer** MJ and Savidge GF. Hyperhomocysteinemia and B-vitamin status on completion of oral anticoagulation therapy in patients with a history of venous thromboembolism. *Clinical Chemistry and Laboratory Medicine* 2003; **41**(11):1493–7.

Clarke P and **Shearer** MJ. Severe liver haemorrhage in extremely low birthweight infants. *Acta Paediatrica* 2003; **92**: 636.

O'Shaughnessy D, Allen C, Woodcock T, Pearce K, Harvey J, **Shearer** MJ. Echis time, under-carboxylated prothrombin and vitamin K status in intensive care patients. *Clinical and Laboratory Haematology* 2003; **25**: 397-404.

Shmeleva VM, Kapustin SI, Papayan LP, **Sobczynska-Malefora** A, **Harrington** DJ and Savidge GF. Prevalence of hyperhomocysteinemia and the MTHFR C677T polymorphism in patients with arterial and venous thrombosis from North Western Russia. *Thrombosis Research*, 2003; **11**(6):351-6.

Thane C.W, C.J Bates, **Shearer** M.J, Unadkat N, **Harrington** D.J, Paul A.A, Prentice A. and Bolton-Smith C. Plasma phylloquinone (vitamin K<sub>1</sub>) concentration and its relationship to intake in a national sample of British elderly people. *British Journal of Nutrition*. 2002; **87**:615-622.

Thane CW. Paul AA. Bates CJ. Bolton-Smith C. Prentice A. **Shearer** MJ. Intake and sources of phylloquinone (vitamin K<sub>1</sub>): variation with socio-demographic and lifestyle factors in a national sample of British elderly people. *British Journal of Nutrition*. 2002; **87**(6):605-13.

Schurgers LJ. **Shearer** MJ. Soute BA. Elmadfa I. Harvey J. Wagner KH. Tomasch R. Vermeer C. Novel effects of diets enriched with corn oil or with an olive oil/sunflower oil mixture on vitamin K metabolism and vitamin K-dependent proteins in young men. *Journal of Lipid Research*, 2002; **43**(6):878-4.





Newman P. Bonello F. Wierzbicki AS. Lumb P. Savidge GF. **Shearer** MJ. The uptake of lipoprotein-borne phylloquinone (vitamin K<sub>1</sub>) by osteoblasts and osteoblast-like cells: role of heparan sulfate proteoglycans and apolipoprotein *European Journal of Bone & Mineral Research*. 2002; **17**(3):426-33.

**Shearer** MJ. Role of vitamin K and Gla proteins in the pathophysiology of osteoporosis and vascular calcification. *Current Opinion in Clinical Nutrition & Metabolic Care*. 2000;**3**(6):433-8.

**Shearer** MJ. Bolton -Smith C. The UK food database for vitamin K and why we need it. *Food Chemistry*, 2000; **68**:213-18.

Bolton-Smith C, Price RJG, Fenton ST, **Harrington** DJ, **Shearer** MJ. Compilation of a provisional UK database for the phylloquinone (vitamin K<sub>1</sub>) content of foods. *British Journal of Nutrition*, 2000; **83**:389-399.

Humpl T. Bruhl K. Brzezinska R. Hafner G. Coerdts W. Shearer MJ. Fatal late vitamin K-deficiency bleeding after oral vitamin K prophylaxis secondary to unrecognized bile duct paucity. *Journal of Pediatric Gastroenterology & Nutrition*. 1999; **29**(5):594-7.

Greer FR. Marshall SP. Severson RR. Smith DA. **Shearer** MJ. Pace DG. Joubert PH. A new mixed micellar preparation for oral vitamin K prophylaxis: randomised controlled comparison with an intramuscular formulation in breast fed infants. *Archives of Disease in Childhood*, 1998; **79**(4):300-5.

McCarthy PT, **Harrington** DJ, **Shearer** MJ. Assay of phylloquinone in plasma by high-performance liquid chromatography with electrochemical detection. *Methods in Enzymology*, 1997; **282**:421-433.

McCarthy PT, Cox AD, **Harrington** DJ, Everly RS, Hampton E, Al Sabh AI, Massey E, Jackson H, Ferguson T. Covert poisoning with difenacoum: clinical and toxicological observations. *Human and Experimental Toxicology*, 1997; **16**:166-170.

Schubiger G. Gruter J. **Shearer** MJ. Plasma vitamin K<sub>1</sub> and PIVKA-II after oral administration of mixed-micellar or cremophor EL-solubilized preparations of vitamin K<sub>1</sub> to normal breast-fed newborns. *Journal of Pediatric Gastroenterology & Nutrition*, 1997; **24**(3):280-4.



Kohlmeier M. Saupe J. **Shearer** MJ. Schaefer K. Asmus G. Bone health of adult hemodialysis patients is related to vitamin K status. *Kidney International*. 1997; **51**(4):1218-21.

Bolton-Smith CA. **Shearer** MJ. Dietary reference values for vitamin K: where are we now? *Nutrition and Food Science*, 1997; **6**:242-5

**Shearer** MJ. The roles of vitamins D and K in bone health and osteoporosis prevention. *Proceedings of the Nutrition Society*, 1997; **56**(3):915-37.

Roberts NB. Holding Jd. Walsh HPJ. Klenerman L. Helliwell T. King D. **Shearer** MJ. Serial changes in serum vitamin K<sub>1</sub>, triglyceride, cholesterol, osteocalcin and 25-hydroxyvitamin D<sub>3</sub> in patients after hip replacement for fractured neck of femur or osteoarthritis. *European Journal of Clinical Investigation*. 1996; **26**:24-29.

**Shearer** MJ. Bach A. Kohlmeier M. Chemistry, nutritional sources, tissue distribution and metabolism of vitamin K with special reference to bone health. *Journal of Nutrition*, 1996; **126**:1181S-6S.

Kohlmeier M. Salomon A. Saupe J. **Shearer** MJ. Transport of vitamin K to bone in humans. *Journal of Nutrition*, 1996; **126**:1192S-6S.

**Shearer** MJ. Vitamin K. *Lancet*, 1995; **345**(8944):229-34.

Elston TN. Dudley JM. **Shearer** MJ. Schey SA. Vitamin K prophylaxis in high-dose chemotherapy, *Lancet*, 1995; **345**(8959):1245.

**Shearer** MJ. Vitamin K: its physiological role and the assessment of clinical and subclinical deficiency states. *Journal of the International Federation of Clinical Chemistry*, 1995; **7**:88-95

Kohlmeier M. Saupe J. Drossel HJ. **Shearer** MJ. Variation of phylloquinone (vitamin K<sub>1</sub>) concentrations in hemodialysis patients. *Thrombosis & Haemostasis*, 1995; **74**(5):1252-4. O'Brien DP.

**Shearer** MJ. Waldron RP. Horgan PG. Given HF. The extent of vitamin K deficiency in patients with cholestatic jaundice: a preliminary communication. *Journal of the Royal Society of Medicine*, 1994; **87**(6):320-2.

Saupe J. **Shearer** MJ. Kohlmeier M. Phylloquinone transport and its influence on gamma-carboxyglutamate residues of osteocalcin in patients on maintenance hemodialysis. *American Journal of Clinical Nutrition*, 1993; **58**(2):204-8.

Schubiger G. Tonz O. Gruter J. **Shearer** MJ. Vitamin K<sub>1</sub> concentration in breast-fed neonates after oral or intramuscular administration of a single dose of a new mixed-micellar preparation of phylloquinone. *Journal of Pediatric Gastroenterology & Nutrition*, 1993; **16**(4):435-9.

von Kries R, Kordass U, **Shearer** MJ, Göbel U. Idiopathic late hemorrhagic disease of newborn and conjugated hyperbilirubinemia. *Journal of Pediatric Gastroenterology and Nutrition*. 1993; **16**: 328-330.

Pietschnig B. Haschke F. Vanura H. **Shearer** MJ. Veitl V. Kellner S. Schuster E. Vitamin K in breast milk, no influence of maternal dietary intake. *European Journal of Clinical Nutrition*. 1993; **47**:209-215.

**Shearer** MJ. Kries RV. Saupe J. Comparative aspects of human vitamin K metabolism and nutriture. *Journal of Nutritional Science & Vitaminology*, 1992; 413-6.

**Shearer** MJ. Vitamin K metabolism and nutriture. *Blood Reviews*. 1992; **6**(2):92-104.

Butcher GP. **Shearer** MJ. MacNicol AD. Kelly MJ. Ind PW. Difenacoum poisoning as a cause of haematuria. *Human & Experimental Toxicology*. 1992; **11**(6):553-4.

von Kries R. **Shearer** MJ. Widdershoven J. Motohara K. Umbach G. Gobel U. Des-gamma-carboxyprothrombin (PIVKA II) and plasma vitamin K<sub>1</sub> in newborns and their mothers. *Thrombosis & Haemostasis*, 1992; **68**(4):383-7.

Williams AT. **Shearer** MJ. Oyeyi J. Aitchison RG. Newland AC. Schey SA. Serum osteocalcin in the management of myeloma. *European Journal of Cancer*. 1992; **29A**(1):140-2.

Hodges SJ. Pilkington MJ. Stamp TC. Catterall A. **Shearer** MJ. Bitensky L. Chayen J. Depressed levels of circulating menaquinones in patients with osteoporotic fractures of the spine and femoral neck. *Bone*. 1991; **12**(6):387-9.

Ross PJ. **Shearer** MJ. Diplock AT. Schey SA. A fibroblast cell culture model to study vitamin K metabolism and the inhibition of vitamin K epoxide reductase by known and suspected antagonists. *British Journal of Haematology*. 1991; **77**(2):195-200.

Mathers JC. Fernandez F. Hill MJ. McCarthy PT. **Shearer** MJ. Oxley A. Dietary modification of potential vitamin K supply from enteric bacterial menaquinones in rats. *British Journal of Nutrition*. 1990; **63**(3):639-52.

Hodges SJ. Pilkington MJ. **Shearer** MJ. Bitensky L. Chayen J. Age-related changes in the circulating levels of congeners of vitamin K<sub>2</sub>, menaquinone-7 and menaquinone-8. *Clinical Science*, 1990; **78**(1):63-6.

**Shearer** MJ. Vitamin K and vitamin K-dependent proteins. *British Journal of Haematology*. 1990; **75**(2):156-62.

**Shearer** MJ. Bechtold H. Andrassy K. Koderisch J. McCarthy PT. Trenk D. Jahnchen E. Ritz E. Mechanism of cephalosporin-induced hypoprothrombinemia: relation to cephalosporin side chain, vitamin K metabolism, and vitamin K status. *Journal of Clinical Pharmacology*. 1998; **28**(1):88-95.

Cohen H. Scott SD. Mackie IJ. **Shearer** MJ. Bax R. Karren SJ. Machin SJ. The development of hypoprothrombinaemia following antibiotic therapy in malnourished patients with low serum vitamin K<sub>1</sub> levels. *British Joournal of Haematology*. 1988; **68**: 63-66.

Rowe PH, Taylor PR, **Shearer** MJ, Owen WJ. Vitamin A deficiency secondary to pancreatic carcinoid. *Acta Chir Scand* 1988; **154**: 487-488.

Von Kries R. **Shearer** MJ. Gobel U. Vitamin K in infancy. *European Journal of Pediatrics*. 1988; **147**(2):106-12.

Cohen H. Mackie IJ. Walshe K. **Shearer** MJ. Bax R. Pozniak A. Moulesdale M. Machin SJ. The effects of Cefotetan disodium on haemostasis. *Journal of Hospital Infection*. 1987; **10**:51-57.

von Kries R. **Shearer** MJ, McCarthy PT. Haug M. Harzer G. Gobel U. Vitamin K<sub>1</sub> content of maternal milk: influence on the stage of lactation, lipid composition and vitamin K<sub>1</sub> supplements given to the mother. *Pediatric Research*, 1987; **22**: 513-517.

**Shearer MJ.** Assay of K vitamins in tissues by high-performance liquid chromatography with special reference to ultraviolet detection. *Methods in Enzymology*, 1986; **123**:235-51.

**Shearer MJ.** Assay of coumarin antagonists of vitamin K in blood by high-performance liquid chromatography. *Methods in Enzymology*. 1986; **123**:223-34.

Mackie IJ. Walshe K. Cohen H. McCarthy P. **Shearer MJ.** Scott SD. Karren SJ. Machin SJ. Effects of N-methyl-thiotetrazole cephalosporin on haemostasis in patients with reduced serum vitamin K<sub>1</sub> concentrations. *Journal of Clinical Pathology*. 1986; **39**:1245-9.

Hart JP. **Shearer MJ.** McCarthy PT. Enhanced sensitivity for the determination of endogenous phyloquinone (vitamin K<sub>1</sub>) in plasma using high-performance liquid chromatography with dual-electrode electrochemical detection. *Analyst*. 1985; **110**(10):1181-4.

McNinch AW. Upton C. Samuels M. **Shearer MJ.** McCarthy P. Tripp JH. L'E Orme R. Plasma concentrations after oral or intramuscular vitamin K<sub>1</sub> in neonates. *Archives of Disease in Childhood*, 1985; **60**(9):814-8.

Hart JP. **Shearer MJ.** Klenerman L. Catterall A. Reeve J. Sambrook PN. Dodds RA. Bitensky L. Chayen J. Electrochemical detection of depressed circulating levels of vitamin K<sub>1</sub> in osteoporosis. *Journal of Clinical Endocrinology & Metabolism*, 1985; **60**(6):1268-9.

Hart JP. **Shearer MJ.** McCarthy PT. Rahim S. Voltammetric behaviour of phyloquinone (vitamin K<sub>1</sub>) at a glassy-carbon electrode and determination of the vitamin in plasma using high-performance liquid chromatography with electrochemical detection. *Analyst*. 1984; **109**(4):477-81.

**Shearer MJ.** High-performance liquid chromatography of K vitamins and their antagonists. *Advances in Chromatography*, 1983; **21**:243-301.

**Shearer MJ.** Rahim S. Barkhan P. Stimmler L. Plasma vitamin K<sub>1</sub> in mothers and their newborn babies. *Lancet*, 1982; **2**(8296):460-3.

Haroon Y. **Shearer** MJ. Rahim S. Gunn WG. McEnery G. Barkhan P. The content of phylloquinone (vitamin K<sub>1</sub>) in human milk, cows' milk and infant formula foods determined by high-performance liquid chromatography. *Journal of Nutrition*, 1982; **112**(6):1105-17.

Haroon Y, **Shearer** MJ, Barkhan P. Resolution of menaquinones (vitamins K<sub>2</sub>) by high-performance liquid chromatography. *Journal of Chromatography*. 1981; **206**: 333-342.

McBurney A. **Shearer** MJ. Barkhan P. Preparative isolation and characterization of the urinary aglycones of vitamin K<sub>1</sub>. *Biochemical Medicine*. 1980; **24**(3):250-67.

Haroon Y. **Shearer** MJ. McEnery G. Allan VE. Barkhan P. Assay of vitamin K<sub>1</sub> (phylloquinone) by high performance liquid chromatography: values for human and cow's milk. *Proceedings of the Nutrition Society*, 1980; **39**(2):49.

Haroon Y. **Shearer** MJ. Barkhan P. Resolution of phylloquinone (vitamin K<sub>1</sub>), phylloquinone 2,3-epoxide, 2-chloro-phylloquinone and their geometric isomers by high-performance liquid chromatography. *Journal of Chromatography*, 1980; **200**:293-299

McBurney A. **Shearer** MJ. Barkhan P. Changes in the urinary metabolites of phylloquinone (vitamin K<sub>1</sub>) in man following therapeutic anticoagulation with warfarin. *Biochemical Pharmacology*. 1978; **27**(3):273-8.

**Shearer** MJ. McBurney A. Breckenridge AM. Barkhan P. Effect of warfarin on the metabolism of phylloquinone (vitamin K<sub>1</sub>):dose-response relationships in man. *Clinical Science & Molecular Medicine*, 1977; **52**(6):621-30.

Barkhan P, **Shearer** MJ. Metabolism of vitamin K<sub>1</sub> (phylloquinone) in man. *Royal Society of Medicine* 1977; **70**:93-96.

**Shearer** MJ. McBurney A. Breckenridge A. Barkhan P. Dose - response relationship between warfarin and the metabolism of phylloquinone (vitamin K<sub>1</sub>) in man. *International Journal for Vitamin & Nutrition Research*. 1976; **46**(2):215-9.

Gover PA. Ingram GI. Cork MS. Holland L. Hopkins RP. Callaghan P. Barkhan P. **Shearer** MJ. Bleeding from self-administration of phenindione: a detailed case study. *British Journal of Haematology*. 1976; **33**(4):551-64.

**Shearer MJ.** McBurney A. Barkhan P. Studies on the absorption and metabolism of phylloquinone (vitamin K<sub>1</sub>) in man. *Vitamins & Hormones*, 1974; **32**:513-42.

Scott RB. Lee M. Mallinson CN. **Shearer MJ.** Proceedings: Failure to demonstrate a bile salt-independent pathway for absorption of vitamin K<sub>1</sub> in man. *Gut*. 1973; **14**(10):825.

**Shearer MJ.** Barkhan P. Studies on the metabolites of phylloquinone (vitamin K<sub>1</sub>) in the urine of man. *Biochimica et Biophysica Acta*. 1973; **297**(2):300-12.

**Shearer MJ.** McBurney A. Barkhan P. Effect of warfarin anticoagulation on vitamin-K<sub>1</sub> metabolism in man. *British Journal of Haematology*. 1972; **24**(4):471-9.

**Shearer MJ.** Mallinson CN. Webster GR. Barkhan P. Clearance from plasma and excretion in urine, faeces and bile of an intravenous dose of tritiated vitamin K<sub>1</sub> in man. *British Journal of Haematology*. 1972; **22**(5):579-88.

**Shearer MJ.** Mallinson C. Webster GR. Barkhan P. Studies in man with tritiated vitamin K<sub>1</sub> administered intravenously. *Clinical Science*. 1971; **40**(6):23.

**Shearer MJ.** Mallinson CN. Webster GR. Barkhan P. Absorption of tritiated vitamin K<sub>1</sub> in patients with fat malabsorption. *Gut*. 1970;**11**(12):1063-4.

**Shearer MJ.** Barkhan P. Webster GR. Absorption and excretion of an oral dose of tritiated vitamin K<sub>1</sub> in man. *British Journal of Haematology*, 1970; **18**(3):297-308.