



THE SUPPLEMENT

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NUTRITION AND CYSTIC FIBROSIS: PUBLICATIONS FROM 2007

This edition of The Supplement is the annual listing of nutrition publications appearing in peer-reviewed journals in 2007. English language papers, listed in the Pub Med database are included. The purpose of this newsletter is to assist Registered Dietitians in staying current with nutrition and CF research, thereby providing a basis for evidence-based clinical practice. The papers within each heading are alphabetically ordered by the last name of the first author.

ADULTS

The influence of body composition on respiratory muscle, lung function and diaphragm thickness in adults with cystic fibrosis. Enright S, et al. *J Cyst Fibros.* 2007 Nov 30;6(6):384-90.

Nutrient status of adults with cystic fibrosis. Gordon CM, et al. *J Am Diet Assoc.* 2007 Dec;107(12):2114-9.

Patterns of GI disease in adulthood associated with mutations in the CFTR gene. Wilschanski M, et al. *Gut.* 2007 Aug;56(8):1153-63.

BODY COMPOSITION and WEIGHT

Adiponectin and body composition in cystic fibrosis. Panagopoulou P, et al. *J Cyst Fibros.* 2008 May;7(3):244-51.

Ghrelin and leptin levels in young adults with cystic fibrosis: relationship with body fat. Stylianou C, et al. *J Cyst Fibros.* 2007 Jul;6(4):293-6.

Evaluation of body mass index percentiles for assessment of malnutrition in children with cystic fibrosis. Wiedemann B, et al.; German CFQA Group. *Eur J Clin Nutr.* 2007 Jun;61(6):759-68.

CURCUMIN

Potential usefulness of curcumin in cystic fibrosis. Emanuele E, et al. *Med Hypotheses.* 2007;69(1):222-3.

Curcumin enhances cystic fibrosis transmembrane regulator expression by down-regulating calreticulin. Harada K, et al. *Biochem Biophys Res Commun.* 2007 Feb 9;353(2):351-6.

Curcumin/turmeric solubilized in sodium hydroxide inhibits HNE protein modification--an in vitro study. Kurien BT, et al. *J Ethnopharmacol.* 2007 Mar 21;110(2):368-73.

Curcumin opens cystic fibrosis transmembrane conductance regulator channels by a novel mechanism that requires neither ATP binding nor dimerization of the nucleotide-binding domains.

Wang W, et al. *J Biol Chem.* 2007 Feb 16;282(7):4533-44.

DIET

Benefits of breastfeeding in cystic fibrosis: a single-centre follow-up survey. Colombo C, et al. *Acta Paediatr.* 2007 Aug;96(8):1228-32.

Update on enteral nutrition support for cystic fibrosis. Erskine JM, et al. *Nutr Clin Pract.* 2007 Apr;22(2):223-32.

Nutritional management of cystic fibrosis patients. Kalnins D, et al. *Curr Opin Clin Nutr Metab Care.* 2007 May;10(3):348-54.

Nutrition and lung disease in cystic fibrosis. Milla CE. *Clin Chest Med.* 2007 Jun;28(2):319-30.

Nutritional intake and status in children with cystic fibrosis: does age matter? White H, et al. *J Pediatr Gastroenterol Nutr.* 2007 Jan;44(1):116-23.

ENDOCRINE: Bone and Diabetes

Spontaneous hypoglycemia in patients with cystic fibrosis. Battezzati A, et al. *Eur J Endocrinol.* 2007 Mar;156(3):369-76.

Glucose tolerance and insulin secretion, morbidity, and death in patients with cystic fibrosis. Bismuth E, et al. *J Pediatr.* 2008 Apr;152(4):540-5.

SPECIAL POINTS OF INTEREST:

- During 2007, Pub Med listed over 150 papers focused on nutrition and cystic fibrosis.
- For the convenience of the reader, review papers are grouped together under the heading "Review."
- Topics once only theories, now are being researched and results being published. Note the number of peer-reviewed papers on curcumin's possible potential for individuals with cystic fibrosis.

Volume 1, Issue 2:
Author: Suzanne H. Michel, MPH, RD, LDN
Editor: Donna H. Mueller, PhD, RD, FADA, LDN

Prevalence of bone mineral disease among adolescents with cystic fibrosis. Caldeira RJ, et al. *J Pediatr (Rio J)*. 2008 Jan-Feb;84(1):18-25.

Cystic fibrosis related diabetes in an extremely young patient. Hor Casas L, et al. *J Cyst Fibros*. 2007 May;6(3):247-9.

An unusual cause of hypercalcaemia in a patient with cystic fibrosis. Clifton IJ, et al. *J Cyst Fibros*. 2007 Sep;6(5):369-70.

Increased glucose excursion in cystic fibrosis and its association with a worse clinical status. Costa M, et al. *J Cyst Fibros*. 2007 Nov 30;6(6):376-83.

Cystic fibrosis-related diabetes in adults: where can we go from here? de Valk HW, et al. *Rev Diabet Stud*. 2007 Spring;4(1):6-12.

Carbohydrate metabolism changes in cystic fibrosis. Domínguez-García A, et al. *J Pediatr Endocrinol Metab*. 2007 May;20(5):621-32.

Glucose tolerance, insulin secretion, and insulin sensitivity in children and adolescents with cystic fibrosis and no prior history of diabetes. Elder DA, et al. *J Pediatr*. 2007 Dec;151(6):653-8.

Growth hormone therapy in children and adults. Krysiak R, et al. *Pharmacol Rep*. 2007 Sep-Oct;59(5):500-16.

Evaluation of glucose tolerance in cystic fibrosis: comparison of 50-g and 75-g tests. Lee KM, et al. *J Cyst Fibros*. 2007 Jul;6(4):274-6.

Long-term effect of insulin treatment in cystic fibrosis-related diabetes. Mohan K, et al. *Respiration*. 2007 Oct 25.

Glucose homeostasis and genotype-phenotype interplay in cystic fibrosis patients with CFTR gene deltaF508 mutation. Preumont V, et al. *Diabetes Care*. 2007 May;30(5):1187-92.

Low bone mineral density in young children with cystic fibrosis. Sermet-Gaudelus I, et al. *Am J Respir Crit Care Med*. 2007 May 1;175(9):951-7.

Use of continuous subcutaneous insulin infusion in patients with cystic fibrosis related diabetes: three case reports. Sulli N, et al. *J Cyst Fibros*. 2007 May;6(3):237-40.

ENERGY EXPENDITURE

Resting energy expenditure in females with cystic fibrosis: is it affected by puberty? Barclay A, et al. *Eur J Clin Nutr*. 2007 Oct;61(10):1207-12.

Longitudinal analysis of resting energy expenditure in patients with cystic fibrosis. Magoffin A, Allen, et al. *J Pediatr*. 2008 May;152(5):703-8.

Effect of exocrine pancreatic function on resting energy expenditure in cystic fibrosis. Moudiou T, et al. *Acta Paediatr*. 2007 Oct;96(10):1521-5.

Evaluation of formulas for calculating total energy requirements of preadolescent children with cystic fibrosis. Trabulsi J, et al. *Am J Clin Nutr*. 2007 Jan;85(1):144-51.

FATTY ACIDS

Potential utility of plasma fatty acid analysis in the diagnosis of cystic fibrosis. Batal I, et al. *Clin Chem*. 2007 Jan;53(1):78-84.

Influence of pancreatic status and sex on polyunsaturated fatty acid profiles in cystic fibrosis. Coste TC, et al. *Clin Chem*. 2008 Feb;54(2):388-95.

An overview of monitoring and supplementation of omega 3 fatty acids in cystic fibrosis. Coste TC, et al. *Clin Biochem*. 2007 May;40(8):511-20.

Fatty acids platelets and oxidative markers following intravenous n-3 fatty acids administration in cystic fibrosis: An open pilot observational study. Durieu I, et al. *J Cyst Fibros*. 2007 Sep;6(5):320-6.

Plasma fatty acids and lipid hydroperoxides increase after antibiotic therapy in cystic fibrosis. Durieu I, et al. *Eur Respir J*. 2007 May;29(5):958-64.

Docosahexaenoic acid is associated with endosteal circumference in long bones in young males with cystic fibrosis. Gronowitz E, et al. *Br J Nutr*. 2008 Jan;99(1):160-7.

Relation between fatty acid composition and clinical status or genotype in cystic fibrosis patients. Van Biervliet S, et al. *Ann Nutr Metab*. 2007;51(6):541-9.

Polyunsaturated fatty acids in cystic fibrosis are related to nutrition and clinical expression of the disease. Walkowiak J, et al. *J Pediatr Gastroenterol Nutr*. 2007 Oct;45(4):488-9; author reply 489.

FLUIDS AND ELECTROLYTES

Cystic fibrosis and hyponatremia. Gökçe S, et al. *Pediatr Emerg Care*. 2007 Oct;23(10):760.

Modified oral rehydration therapy in a case with cystic fibrosis. Yalçın SS, et al. *Turk J Pediatr*. 2007 Jan-Mar;49(1):102-4.

GI

Acute intestinal obstruction as a presentation of cystic fibrosis in infancy. Baral V, et al. *J Cyst Fibros*. 2007 Nov 27.

Outcomes of fundoplication in children with cystic fibrosis. Boesch RP, et al. *J Pediatr Surg*. 2007 Aug;42(8):1341-4.

Comparison of monoclonal and polyclonal ELISAs for fecal elastase in patients with cystic fibrosis and pancreatic insufficiency. Borowitz D, et al. *J Pediatr Gastroenterol Nutr*. 2007 Feb;44(2):219-23.

Effect of Lactobacillus GG supplementation on pulmonary exacerbations in patients with cystic fibrosis: a pilot study. Bruzzese E, et al. *Clin Nutr*. 2007 June;26(3):322-8.

Pancreatic phenotype in infants with cystic fibrosis identified by mutation screening. Cipolli M, et al. *Arch Dis Child*. 2007 Oct;92(10):842-6.

Liver disease in cystic fibrosis. Colombo C. *Curr Opin Pulm Med*. 2007 Nov;13(6):529-36.

The benign course of liver disease in adults with cystic fibrosis and the effect of ursodeoxycholic acid. Desmond CP, et al. *Liver Int*. 2007 Dec;27(10):1402-8.

Pancreatic enzyme therapy for pancreatic exocrine insufficiency. Domínguez-Muñoz JE. *Curr Gastroenterol Rep*. 2007 Apr;9(2):116-22.

Pancreatic enzyme pharmacotherapy. Ferrone M, et al. *Pharmacotherapy*. 2007 Jun;27(6):910-20.

Risk factors for small bowel bacterial overgrowth in cystic fibrosis. Fridge JL, et al. *J Pediatr Gastroenterol Nutr*. 2007 Feb;44(2):212-8.

Liver transplantation for cystic fibrosis in adults. Ikegami T, et al. *Surg Today*. 2008;38(1):26-9.

Potato crisps without pancreatic extracts supplements: a potential cause of the distal intestinal obstruction in cystic fibrosis. Kopriva F, et al. *Eur J Pediatr*. 2007 Sep;166(9):969-70.

Pancreas and cystic fibrosis: the implications of increased survival in cystic fibrosis. Krysa J, et al. *Pancreatology*. 2007;7(5-6):447-50.

An unusual case of abdominal pain in a patient with cystic fibrosis. Leaver SK, et al. *J Cyst Fibros*. 2007 Apr;6(2):159-60.

Partial splenectomy for portal hypertension in cystic fibrosis related liver disease. Louis D, et al. *Pediatr Pulmonol*. 2007 Dec;42(12):1173-80.

Risk of pancreatic cancer in patients with cystic fibrosis. Maisonneuve P, et al. *Gut*. 2007 Sep;56(9):1327-8.

Liver disease as risk factor for cystic fibrosis-related diabetes development. Minicucci L, et al. *Acta Paediatr*. 2007 May;96(5):736-9.

Cystic fibrosis and lactase persistence: a possible correlation. Modiano G, et al. *Eur J Hum Genet*. 2007 Mar;15(3):255-9.

Comparison of ultrasound and biopsy findings in children with cystic fibrosis related liver disease. Mueller-Abt PR, et al. *J Cyst Fibros*. 2008 May;7(3):215-21.

Cystic fibrosis liver disease: to transplant or not to transplant? Nash KL, Collier et al. *Am J Transplant*. 2008 Jan;8(1):162-9.

Gastrograffin use in distal intestinal obstruction syndrome of cystic fibrosis. Shah U, et al. *J Ayub Med Coll Abbottabad*. 2007 Jan-Mar;19(1):58-60.

Management of meconium-related ileus in very low-birthweight infants. Shinohara T, et al. *Pediatr Int*. 2007 Oct;49(5):641-4.

DeltaF508 mutation results in impaired gastric acid secretion. Sidani SM, et al. *J Biol Chem*. 2007 Mar 2;282(9):6068-74.

Clostridium difficile colitis in cystic fibrosis patients with and without lung transplantation. Theunissen C, et al. *Transpl Infect Dis*. 2007 Jul 12.

REVIEWS

Antioxidants in cystic fibrosis. Conclusions from the CF antioxidant workshop, Bethesda, Maryland, November 11-12, 2003. Cantin AM, et al. *Free Radic Biol Med*. 2007 Jan 1;42(1):15-31.

Appetite stimulants in cystic fibrosis: a systematic review. Chinuck RS, et al. *J Hum Nutr Diet*. 2007 Dec;20(6):526-37.

A review of the management of two common clinical problems found in patients with cystic fibrosis: cystic fibrosis-related diabetes and poor growth. Hardin DS. *Horm Res*. 2007;68 Suppl 5:113-6.

Does enteral nutrition affect clinical outcome? A systematic review of the randomized trials. Koretz RL, et al. *Am J Gastroenterol*. 2007 Feb;102(2):412-29.

Omega-3 fatty acids (from fish oils) for cystic fibrosis. McKarney C, et al. *Cochrane Database Syst Rev*. 2007 Oct 17;(4):CD002201.

Oral calorie supplements for cystic fibrosis. Smyth R, et al. *Cochrane Database Syst Rev*. 2007 Jan 24;(1):CD000406.

Iron acquisition mechanisms of the Burkholderia cepacia complex. Thomas MS. *Biometals*. 2007 Jun;20(3-4):431-52. Epub 2007 Feb 13. Review. Erratum in: *Biometals*. 2008 Feb;21(1):105-6.

TRANSPLANT

Gastro-oesophageal reflux and gastric aspiration in lung transplant patients with or without chronic rejection. Blondeau K, et al. *Eur Respir J*. 2008 Apr;31(4):707-13.

Hypomagnesaemia in cystic fibrosis patients referred for lung transplant assessment. Gupta A, et al. *J Cyst Fibros*. 2007 Sep;6(5):360-2.

Lung transplantation and survival in children with cystic fibrosis. Liou TG, et al. *N Engl J Med*. 2007 Nov 22;357(21):2143-52.

VITAMINS/MINERALS

Treatment of vitamin D deficiency with UV light in patients with malabsorption syndromes: a case series. Chandra P, et al. *Photodermatol Photoimmunol Photomed*. 2007 Oct;23(5):179-85.

Myelodysplastic features and symptoms mimicking cystic fibrosis in a child with an intracellular vitamin B 12 deficiency. Gustafsson B, et al. *Pediatr Blood Cancer*. 2007 Dec;49(7):1054-5.

Vitamins A and E and pulmonary exacerbations in patients with cystic fibrosis. Hakim F, Kerem et al. *J Pediatr Gastroenterol Nutr*. 2007 Sep;45(3):347-53.

Restless leg syndrome manifested by iron deficiency from chronic hemoptysis in cystic fibrosis. Hayes D Jr. *J Cyst Fibros*. 2007 May;6(3):234-6.

The use of soluble transferrin receptor to assess iron deficiency in adults with cystic fibrosis. Khalid S, et al. *Clin Chim Acta*. 2007 Mar;378(1-2):194-200.

Vitamin A intake and elevated serum retinol levels in children and young adults with cystic fibrosis. Maqbool A, et al. *J Cyst Fibros*. 2008 Mar;7(2):137-41.

Dietary supplementation with multiple micronutrients: no beneficial effects in pediatric cystic fibrosis patients. Oudshoorn JH, et al. *J Cyst Fibros*. 2007 Jan;6(1):35-40.

Bioavailability of a novel, water-soluble vitamin E formulation in malabsorbing patients. Papas K, et al. *Dig Dis Sci*. 2007 Feb;52(2):347-52.

Increased airway iron as a potential factor in the persistence of *Pseudomonas aeruginosa* infection in cystic fibrosis. Reid DW, et al. *Eur Respir J*. 2007 Aug;30(2):286-92.

Vitamin D insufficiency in children, adolescents, and young adults with cystic fibrosis despite routine oral supplementation. Rovner AJ, et al. *Am J Clin Nutr*. 2007 Dec;86(6):1694-9.

Selection bias and vitamin E status in cystic fibrosis. Sokol RJ. *J Pediatr*. 2007 May;150(5):e85; author reply e85-6.

Cholecalciferol significantly increases 25-hydroxyvitamin D concentrations in adults with cystic fibrosis. Stephenson A, et al. *Am J Clin Nutr*. 2007 May;85(5):1307-11.

Vitamin K prescribing patterns and bone health surveillance in UK children with cystic fibrosis. Urquhart DS, et al. *J Hum Nutr Diet*. 2007 Dec;20(6):605-10.

Serum zinc concentrations in cystic fibrosis patients aged above 4 years: a cross-sectional evaluation. Van Biervliet S, Van et al. *Biol Trace Elem Res*. 2007 Oct;119(1):19-26.

ASSORTED TOPICS

Children were marginalised by parents and healthcare professionals during consultations for dietary management of cystic fibrosis. de Dicastillo OL. *Evid Based Nurs*. 2007 Jul;10(3):93.

What and when to collect from infants with cystic fibrosis. Doull I. *Arch Dis Child*. 2007 Oct;92(10):831-2.

Laboratory parameter profiles among patients with cystic fibrosis. Goss CH, et al. *J Cyst Fibros*. 2007 Apr;6(2):117-23.

Mannitol as a mucolytic in cystic fibrosis. Minasian CC, et al. *J R Soc Med*. 2007;100 Suppl 47:53-6.

Olfactory function in children with cystic fibrosis. Mueller CA, et al. *Acta Paediatr*. 2007 Jan;96(1):148-9.

Nutritional cues control *Pseudomonas aeruginosa* multicellular behavior in cystic fibrosis sputum. Palmer KL, et al. *J Bacteriol*. 2007 Nov;189(22):8079-87.

A pilot study on the safety and efficacy of a novel antioxidant rich formulation in patients with cystic fibrosis. Papas KA, et al. *J Cyst Fibros*. 2008 Jan;7(1):60-7.

Clinic consultation with children and parents on the dietary management of cystic fibrosis. Savage E, et al. *Soc Sc Med*. 2007;64:363-374.

Acute renal failure in people with cystic fibrosis. Southern KW. *Thorax*. 2007 Jun;62(6):472-3.

Splenectomy in cystic fibrosis. Van Biervliet S, et al. *Arch Dis Child*. 2007 Mar;92(3):277-8.

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