

# Canadian Clinical Practice Guidelines 2013

## List of New Randomized Controlled Trials since 2009



**Critical Care  
Nutrition**

Topics	# RCTs	Citations
<b>1.0 Use of EN vs PN (n =2)</b>	2	Casas M, Mora J, Fort E, Aracil C, Busquets D, Galter S, et al. [Total enteral nutrition vs. total parenteral nutrition in patients with severe acute pancreatitis]. Rev Esp Enferm Dig. 2007;99(5):264-9. (article in Chinese)
		Chen F, Wang J, Jiang Y*. Influence of different routes of nutrition on the respiratory muscle strength and outcome of elderly patients in respiratory intensive care unit. Chinese Journal of Clinical Nutrition. 2011;1:7-11. [article in Chinese]
<b>2.0 Early vs delayed nutrition intake</b>	2	Moses V, Mahendri NV, John G, Peter JV, Ganesh A. Early hypocaloric enteral nutritional supplementation in acute organophosphate poisoning--a prospective randomized trial. Clin Toxicol. 2009;47(5):419-24.
		Chourdakis M, Kraus MM, Tzellos T, Sardeli C, Peftoulidou M, Vassilakos D, et al. Effect of early compared with delayed enteral nutrition on endocrine function in patients with traumatic brain injury: an open-labeled randomized trial. JPEN Journal of parenteral and enteral nutrition. 2012;36(1):108-16.
<b>3.1 Indirect Calorimetry vs. Predictive Equations</b>	1	Singer P, Anbar R, Cohen J, Shapiro H, Shalita-Chesner M, Lev S, Grozovski E, Theilla M, Frishman S, Madar Z. The tight calorie control study (TICACOS): a prospective, randomized, controlled pilot study of nutritional support in critically ill patients. Intensive Care Med. 2011 Apr;37(4):601-9.
<b>3.3a Intentional Underfeeding: Trophic Feeds vs. Full Feeds</b> <b>New Section</b>	2	Rice TW, Mogan S, Hays MA, Bernard GR, Jensen GL, Wheeler AP. Randomized trial of initial trophic versus full-energy enteral nutrition in mechanically ventilated patients with acute respiratory failure. Crit Care Med. 2011 May;39(5):967-74. PubMed PMID: 21242788; PubMed Central PMCID: PMC3102124.
		Rice TW, Wheeler AP, Thompson BT, Steingrub J, Hite RD, Moss M, Morris A, Dong N, Rock P, National Heart, Lung, and Blood Institute Acute Respiratory Distress Syndrome (ARDS) Clinical Trials Network. Initial trophic vs full enteral feeding in patients with acute lung injury: the EDEN randomized trial. JAMA. 2012 Feb 22;307(8):795-803. Epub 2012 Feb 5. PubMed PMID: 22307571.
<b>3.3b Intentional Underfeeding: Hypocaloric Enteral Nutrition</b> <b>New Section</b>	1	Arabi YM*, Tamim HM, Dhar GS, Al-Dawood A, Al-Sultan M, Sakkijha MH, et al. Permissive underfeeding and intensive insulin therapy in critically ill patients: a randomized controlled trial. Am J Clin Nutr. 2011;93(3):569-77

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<b>4.1a Diets Supplemented with Arginine and Select Other Nutrients</b>	2	Pearce CB, Sadek SA, Walters AM, Goggin PM, Somers SS, Toh SK, et al. A double-blind, randomised, controlled trial to study the effects of an enteral feed supplemented with glutamine, arginine, and omega-3 fatty acid in predicted acute severe pancreatitis. <i>Jop.</i> 2006;7(4):361-71
		Kuhls DA*, Rathmacher JA, Musngi MD, Frisch DA, Nielson J, Barber A, MacIntyre AD, Coates JE, Fildes JJ. Beta-hydroxy-beta-methylbutyrate supplementation in critically ill trauma patients. <i>J Trauma.</i> 2007 Jan;62(1):125-31; discussion 131-2.
<b>4.1b.(i) Fish Oils, Borage Oils and Antioxidants</b>	4	Rice TW, Wheeler AP, Thompson BT, deBoisblanc BP, Steingrub J, Rock P. Enteral omega-3 fatty acid, gamma-linolenic acid, and antioxidant supplementation in acute lung injury. <i>JAMA : the journal of the American Medical Association.</i> 2011;306(14):1574-81.
		Grau-Carmona T, Moran-Garcia V, Garcia-de-Lorenzo A, Heras-de-la-Calle G, Quesada-Bellver B, Lopez-Martinez J, et al. Effect of an enteral diet enriched with eicosapentaenoic acid, gamma-linolenic acid and anti-oxidants on the outcome of mechanically ventilated, critically ill, septic patients. <i>Clin Nutr.</i> 2011;30(5):578-84.
		Theilla M, Schwartz B, Zimra Y, Shapiro H, Anbar R, Rabizadeh E, et al. Enteral n-3 fatty acids and micronutrients enhance percentage of positive neutrophil and lymphocyte adhesion molecules: a potential mediator of pressure ulcer healing in critically ill patients. <i>The British journal of nutrition.</i> 2011:1-6.
		Elamin EM, Miller AC, Ziad S. Immune Enteral Nutrition Can Improve Outcomes in Medical-Surgical Patients with ARDS: A Prospective Randomized Controlled Trial. <i>J Nutrition Disorder Ther.</i> 2012; 2(2):109.
<b>4.1 b.(ii) Fish oil supplementation New Section</b>	1	Stapleton RD, Martin TR, Weiss NS, Crowley JJ, Gundel SJ, Nathens AB, et al. A phase II randomized placebo-controlled trial of omega-3 fatty acids for the treatment of acute lung injury. <i>Crit Care Med.</i> 2011;39(7):1655-62.
<b>4.2c High protein vs low protein</b>	1	Scheinkestel CD, Kar L, Marshall K, Bailey M, Davies A, Nyulasi I & Tuxen DV. Prospective randomized trial to assess caloric and protein needs of critically ill, anuric, ventilated patients requiring continuous renal replacement therapy. <i>Nutrition.</i> 2003;19(11-12):909-16.
<b>4.3 Proteins vs peptides</b>	1	de Aguilar-Nascimento JE, Prado Silveira BR, Dock-Nascimento DB. Early enteral nutrition with whey protein or casein in elderly patients with acute ischemic stroke: a double-blind randomized trial. <i>Nutrition.</i> 2011;27(4):440-4.

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<b>4.5 Fibre</b>	2	Chittawatanarat K, Pokawinpujitsun P, Polbhakdee Y. Mixed fibers diet in surgical ICU septic patients. <i>Asia Pacific journal of clinical nutrition</i> . 2010;19(4):458-64.
		Karakan T, Ergun M, Dogan I, Cindoruk M, Unal S. Comparison of early enteral nutrition in severe acute pancreatitis with prebiotic fiber supplementation versus standard enteral solution: a prospective randomized double-blind study. <i>World journal of gastroenterology : WJG</i> . 2007;13(19):2733-7.
<b>5.3 Small bowel vs gastric feeding</b>	4	Hsu CW, Sun SF, Lin SL, Kang SP, Chu KA, Lin CH, et al. Duodenal versus gastric feeding in medical intensive care unit patients: a prospective, randomized, clinical study. <i>Crit Care Med</i> . 2009;37(6):1866-72.
		White H, Sosnowski K, Tran K, Reeves A, Jones M. A randomised controlled comparison of early post-pyloric versus early gastric feeding to meet nutritional targets in ventilated intensive care patients. <i>Crit Care</i> . 2009;13(6):R187.
		Acosta-Escribano J, Fernandez-Vivas M, Grau Carmona T, Caturla-Such J, Garcia-Martinez M, Menendez-Mainer A, et al. Gastric versus transpyloric feeding in severe traumatic brain injury: a prospective, randomized trial. <i>Intensive care medicine</i> . 2010;36(9):1532-9.
		Davies AR, Morrison SS, Bailey MJ, Bellomo R, Cooper DJ, Doig GS, Finfer SR, Heyland DK; ENTERIC Study Investigators; ANZICS Clinical Trials Group. A multicenter, randomized controlled trial comparing early nasojejunal with nasogastric nutrition in critical illness. <i>Crit Care Med</i> . 2012;40(8):2342-8.
<b>5.5 Threshold of Gastric Residual Volumes</b> <b>New Section</b>	2	Montejo JC, Minambres E, Bordeje L, Mesejo A, Acosta J, Heras A, et al. Gastric residual volume during enteral nutrition in ICU patients: the REGANE study. <i>Intensive care medicine</i> . 2010;36(8):1386-93.
		Reignier J, Mercier E, Le Gouge A, Boulain T, Desachy A, Bellec F, Clavel M, Frat JP, Plantefevre G, Quenot JP, Lascarrou JB & The Clinical Research in Intensive Care and Sepsis (CRICS) Group. Effect of not monitoring residual gastric volume on risk of ventilator-associated pneumonia in adults receiving mechanical ventilation and early enteral feeding: a randomized controlled trial. <i>JAMA</i> . 2013;309(3):249-56.
<b>5.6 Discarding Gastric Residual Volumes</b> <b>New Section</b>	1	Juve-Udina ME, Valls-Miro C, Carreno-Granero A, Martinez-Estalella G, Monverde-Prat D, Domingo-Felici CM, et al. To return or to discard? Randomised trial on gastric residual volume management. <i>Intensive &amp; critical care nursing</i> . 2009;25(5):258-67.

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<b>6.2 Probiotics</b>	12	Forestier C, Guelon D, Cluytens V, Gillart T, Sirot J, De Champs C. Oral probiotic and prevention of Pseudomonas aeruginosa infections: a randomized, double-blind, placebo-controlled pilot study in intensive care unit patients. Crit Care 2008;12(3):R69.
		Ferrie S, Daley M. Lactobacillus GG as treatment for diarrhea during enteral feeding in critical illness: randomized controlled trial. JPEN J Parenter Enteral Nutr. 2011 Jan;35(1):43-9.
		Morrow LE, Kollef MH, Casale TB. Probiotic prophylaxis of ventilator-associated pneumonia: a blinded, randomized, controlled trial. Am J Respir Crit Care Med. 2010 Oct 15;182(8):1058-64.
		Barraud D, Blard C, Hein F, Marçon O, Cravoisy A, Nace L, Alla F, Bollaert PE, Gibot S. Probiotics in the critically ill patient: a double blind, randomized, placebo-controlled trial. Intensive Care Med. 2010 Sep;36(9):1540-7.
		Jain PK, McNaught CE, Anderson AD, MacFie J, Mitchell CJ. Influence of synbiotic containing Lactobacillus acidophilus La5, Bifidobacterium lactis Bb 12, Streptococcus thermophilus, Lactobacillus bulgaricus and oligofructose on gut barrier function and sepsis in critically ill patients: a randomised controlled trial. Clin Nutr. 2004 Aug;23(4):467-75.
		Sharma B, Srivastava S, Singh N, Sachdev V, Kapur S, Saraya A. Role of probiotics on gut permeability and endotoxemia in patients with acute pancreatitis: a double-blind randomized controlled trial. J Clin Gastroenterol. 2011 May-Jun;45(5):442-8
		Schlotterer M, Bernasconi P, Lebreton F, Wasserman D. Intérêt de Saccharomyces boulardii dans la tolérance digestive de la nutrition entérale à débit continu chez le brûlé. Nutr Clin Métabol. 1987;1:31-34.
		Heimbürger DC, Sockwell DG, Geels WJ. Diarrhea with enteral feeding: prospective reappraisal of putative causes. Nutrition. 1994 Sep-Oct;10(5):392-6.
		Keckes G, Tibor B, Olah A. [Early enteral nutrition with specific lactobacillus and fibre reduces sepsis in patients with severe acute pancreatitis]. Magy Seb. 2003;56(1):3-8.
		Klarin B, Wullt M, Palmquist I, Molin G, Larsson A, Jeppsson B. Lactobacillus plantarum 299v reduces colonisation of Clostridium difficile in critically ill patients treated with antibiotics. Acta Anaesthesiol Scand. 2008 Sep;52(8):1096-102.
Li YM. [Adjuvant therapy for probiotics in patients with severe acute pancreatitis: an analysis of 14 cases]. World Chinese Journal of Digestology. 2007;15(3):302-304.		

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		Lu X, Han CM, Yu JX, Fu SZ. [Preliminary comparative study on the effects of early enteral supplementation of synbiotics on severely burned patients]. Zhonghua Shao Shang Za Zhi. 2004 Aug;20(4):198-201.
<b>6.5 Other formulas</b> <b>New Section</b>	1	Kuhls DA*, Rathmacher JA, Musngi MD, Frisch DA, Nielson J, Barber A, et al. Beta-hydroxy-beta-methylbutyrate supplementation in critically ill trauma patients. The Journal of trauma. 2007;62(1):125-31; discussion 131-2.
<b>7.1 EN in combination with PN</b> <b>(n=3)</b>	3	Abrishami R, Ahmadi A, Abdollahi M, Moosivand A, Khalili H, Najafi A, et al. Comparison the inflammatory effects of early supplemental parenteral nutrition plus enteral nutrition versus enteral nutrition alone in critically ill patients. DARU. 2010;18(2):103-6.
		Chen F*, Wang J, Jiang Y. Influence of different routes of nutrition on the respiratory muscle strength and outcome of elderly patients in respiratory intensive care unit. Chinese Journal of Clinical Nutrition. 2011;1:7-11. [article in Chinese]
		Heidegger CP, Berger MM, Graf S, Zingg W, Darmon P, Costanza MC, Thibault R, Pichard C. Optimisation of energy provision with supplemental parenteral nutrition in critically ill patients: a randomised controlled clinical trial. Lancet. 2013;381(9864):385-93.
<b>7.2. Early vs. Delayed Supplemental Parenteral Nutrition</b> <b>New Section</b>	1	Casaer MP, Mesotten D, Hermans G, Wouters PJ, Schetz M, Meyfroidt G, et al. Early versus late parenteral nutrition in critically ill adults. The New England journal of medicine. 2011;365(6):506-17.
<b>9.1 Branched chain amino acids</b>	1	Ozgultekin A*, Turan G, Durmus Y, Dincer E, Akgun N. Comparison of the efficacy of parenteral glutamine and branched-chain amino acid solutions given as extra supplements in parallel to the enteral nutrition in head trauma. e-SPEN, the European e-Journal of Clinical Nutrition and Metabolism. 2008;3(5):e211-e6.
<b>9.2 Type of lipids</b>	4	Barbosa VM, Miles EA, Calhau C, Lafuente E, Calder PC. Effects of a fish oil containing lipid emulsion on plasma phospholipid fatty acids, inflammatory markers, and clinical outcomes in septic patients: a randomized, controlled clinical trial. Crit Care. 2010;14(1):R5.
		Wang X, Li W, Zhang F, Pan L, Li N, Li J. Fish oil-supplemented parenteral nutrition in severe acute pancreatitis patients and effects on immune function and infectious risk: a randomized controlled trial. Inflammation. 2009;32(5):304-9.

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		Umpierrez GE, Spiegelman R, Zhao V, Smiley DD, Pinzon I, Griffith DP, et al. A double-blind, randomized clinical trial comparing soybean oil-based versus olive oil-based lipid emulsions in adult medical-surgical intensive care unit patients requiring parenteral nutrition. <i>Crit Care Med</i> 2012;40(6):1792-8.
		Pontes-Arruda A, Dos Santos MC, Martins LF, González ER, Kliger RG, Maia M, Magnan GB & EPICOS Study Group. Influence of parenteral nutrition delivery system on the development of bloodstream infections in critically ill patients: an international, multicenter, prospective, open-label, controlled study - EPICOS study. <i>J Parenter Enteral Nutr.</i> 2012;36(5):574-86.
<b>9.4a Parenteral Glutamine Supplementation</b>	11	Ozgultekin A*, Turan G, Durmus Y, Dincer E, Akgun N. Comparison of the efficacy of parenteral glutamine and branched-chain amino acid solutions given as extra supplements in parallel to the enteral nutrition in head trauma. <i>e-SPEN, the European e-Journal of Clinical Nutrition and Metabolism.</i> 2008;3(5):e211-e6
		Eroglu A. The effect of intravenous alanyl-glutamine supplementation on plasma glutathione levels in intensive care unit trauma patients receiving enteral nutrition: the results of a randomized controlled trial. <i>Anesthesia and analgesia.</i> 2009;109(2):502-5.
		Zhang Z, Qin HD, Ni HB, Xu Y, Wu HR, Cheng H, et al. [Effect of early enriched parenteral alanyl-glutamine on heat shock protein 70 (HSP70) expression in critical patients]. <i>Zhongguo wei zhong bing ji jiu yi xue = Chinese critical care medicine = Zhongguo weizhongbing jijiuyixue.</i> 2007;19(8):481-4. [article in Chinese]
		Yang SQ, Xu JG. [Effect of glutamine on serum interleukin-8 and tumor necrosis factor-alpha levels in patients with severe pancreatitis]. <i>Nan fang yi ke da xue xue bao = Journal of Southern Medical University.</i> 2008;28(1):129-31. [article in Chinese]
		Tian H, Wang KF, Wu TJ. [Effect of total parenteral nutrition with supplementation of glutamine on the plasma diamine oxidase activity and D-lactate content in patients with multiple organ dysfunction syndrome]. <i>Zhongguo wei zhong bing ji jiu yi xue = Chinese critical care medicine = Zhongguo weizhongbing jijiuyixue.</i> 2006;18(10):616-8. [article in Chinese]
		Perez-Barcena J, Crespi C, Regueiro V, Marse P, Raurich JM, Ibanez J, et al. Lack of effect of glutamine administration to boost the innate immune system response in trauma patients in the intensive care unit. <i>Crit Care.</i> 2010;14(6):R233.
		Grau T, Bonet A, Minambres E, Pineiro L, Irlas JA, Robles A, et al. The effect of L-alanyl-L-glutamine dipeptide supplemented total parenteral nutrition on infectious morbidity and insulin sensitivity in critically ill patients. <i>Crit Care Med.</i> 2011;39(6):1263-8.

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		<p>Çekmen N, Aydın A, Erdemli Ö. The impact of L-alanyl-L-glutamine dipeptide supplemented total parenteral nutrition on clinical outcome in critically patients. <i>e-SPEN, the European e-Journal of Clinical Nutrition and Metabolism</i>. 2011;6(2):e64-e7.</p> <p>Andrews PJ*, Avenell A, Noble DW, Campbell MK, Croal BL, Simpson WG, et al. Randomised trial of glutamine, selenium, or both, to supplement parenteral nutrition for critically ill patients. <i>BMJ</i>. 2011;342:d1542.</p> <p>Wernerman J, Kirketeig T, Andersson B, Berthelson H, Ersson A, Friberg H, et al. Scandinavian glutamine trial: a pragmatic multi-centre randomised clinical trial of intensive care unit patients. <i>Acta anaesthesiologica Scandinavica</i>. 2011;55(7):812-8.</p> <p>Ziegler T, May A, Hebbar G, Kudsk K, Sax H, Blumberg H, Easley K, Wischmeyer P. Glutamine dipeptide-supplemented parenteral nutrition in surgical icu patients: Results of an American randomized, double-blind, multicenter trial. <i>Clinical Nutrition Supplements</i>. 2012;7(1):265</p>
<b>9.4.b. Combined Parenteral and Enteral Glutamine Supplementation</b> <b>New Section</b>	1	<p>Heyland D*, Muscedere J, Wischmeyer PE, Cook D, Jones G, Albert M, Elke G, Berger MM, Day AG for the Canadian Critical Care Trials Group. A Randomized Trial of Glutamine and Antioxidants in Critically Ill Patients. <i>N Engl J Med</i> 2013;368(16):1487-95.</p>
<b>10.4.a. Optimal glucose control: Intensive Insulin therapy</b>	3	<p>Annane D, Cariou A, Maxime V, Azoulay E, D'Honneur G, Timsit JF, et al. Corticosteroid treatment and intensive insulin therapy for septic shock in adults: a randomized controlled trial. <i>JAMA</i>. 2010;303(4):341-8.</p> <p>Savioli M, Cugno M, Polli F, Taccone P, Bellani G, Spanu P, et al. Tight glycemic control may favor fibrinolysis in patients with sepsis. <i>Critical Care Medicine</i>. 2009;37(2):424-31.</p> <p>Arabi YM*, Tamim HM, Dhar GS, Al-Dawood A, Al-Sultan M, Sakkijha MH, et al. Permissive underfeeding and intensive insulin therapy in critically ill patients: a randomized controlled trial. <i>Am J Clin Nutr</i>. 2011;93(3):569-77.</p>

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<p><b>10.4.b. Optimal glucose control: Carbohydrate restricted formula + insulin therapy</b> <b>New Section</b></p>	<p>1</p>	<p>de Azevedo JRA, de Araujo LO, da Silva WS, de Azevedo RP. A carbohydrate-restrictive strategy is safer and as efficient as intensive insulin therapy in critically ill patients. <i>J Crit Care.</i> 2010;25(1):84-9.</p>
<p><b>11.1 Combined vitamins and trace elements</b></p>	<p>8</p>	<p>Valenta J*, Brodska H, Drabek T, Hendl J, Kazda A. High-dose selenium substitution in sepsis: a prospective randomized clinical trial. <i>Intensive care medicine.</i> 2011;37(5):808-15.</p> <p>Manzanares W*, Biestro A, Torre MH, Galusso F, Facchin G, Hardy G. High-dose selenium reduces ventilator-associated pneumonia and illness severity in critically ill patients with systemic inflammation. <i>Intensive care medicine.</i> 2011;37(7):1120-7.</p> <p>Andrews PJ*, Avenell A, Noble DW, Campbell MK, Croal BL, Simpson WG, et al. Randomised trial of glutamine, selenium, or both, to supplement parenteral nutrition for critically ill patients. <i>BMJ.</i> 2011;342:d1542.</p> <p>Schneider A, Markowski A, Momma M, Seipt C, Luettig B, Hadem J, et al. Tolerability and efficacy of a low-volume enteral supplement containing key nutrients in the critically ill. <i>Clin Nutr.</i> 2011;30(5):599-603.</p> <p>El-Attar M*, Said M, El-Assal G, Sabry NA, Omar E, Ashour L. Serum trace element levels in COPD patient: the relation between trace element supplementation and period of mechanical ventilation in a randomized controlled trial. <i>Respirology.</i> 2009;14(8):1180-7.</p> <p>González CM*, Luna AH, Silva JAV, Guzmán CO, Sánchez JA, Granillo, JF. Efecto antiinflamatorio del selenio en pacientes sépticos <i>Revista de la asociacion de medicina critica. Y Terapia Intensiva.</i> 2009;23(4):199-205 [article in Spanish]</p> <p>Heyland D*, Muscedere J, Wischmeyer PE, Cook D, Jones G, Albert M, Elke G, Berger MM, Day AG for the Canadian Critical Care Trials Group. A Randomized Trial of Glutamine and Antioxidants in Critically Ill Patients. <i>N Engl J Med</i> 2013;368(16):1487-95.</p> <p>Lindner D*, Lindner J, Baumann G, Dawczynski H, Bauch K. [Investigation of antioxidant therapy with sodium selenite in acute pancreatitis. A prospective randomized blind trial]. <i>Med Klin.</i> 2004. Dec 15;99(12):708-12.</p>



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<b>11.2 Parenteral Selenium (alone or in combination)</b>	7	Manzanares W*, Biestro A, Torre MH, Galusso F, Facchin G, Hardy G. High-dose selenium reduces ventilator-associated pneumonia and illness severity in critically ill patients with systemic inflammation. <i>Intensive care medicine</i> . 2011;37(7):1120-7
		Andrews PJ*, Avenell A, Noble DW, Campbell MK, Croal BL, Simpson WG, et al. Randomised trial of glutamine, selenium, or both, to supplement parenteral nutrition for critically ill patients. <i>BMJ</i> . 2011;342:d1542
		Valenta J*, Brodska H, Drabek T, Hendl J, Kazda A. High-dose selenium substitution in sepsis: a prospective randomized clinical trial. <i>Intensive Care Medicine</i> . 2011;37(5):808-15
		El-Attar M*, Said M, El-Assal G, Sabry NA, Omar E, Ashour L. Serum trace element levels in COPD patient: the relation between trace element supplementation and period of mechanical ventilation in a randomized controlled trial. <i>Respirology</i> . 2009;14(8):1180-7
		González CM*, Luna AH, Silva JAV, Guzmán CO, Sánchez JA, Granillo, JF. Efecto antiinflamatorio del selenio en pacientes sépticos <i>Revista de la asociación de medicina crítica. Y Terapia Intensiva</i> . 2009;23(4):199-205 [article in Spanish]
		Heyland D*, Muscedere J, Wischmeyer PE, Cook D, Jones G, Albert M, Elke G, Berger MM, Day AG for the Canadian Critical Care Trials Group. A Randomized Trial of Glutamine and Antioxidants in Critically Ill Patients. <i>N Engl J Med</i> 2013;368(16):1487-95.
		Lindner D*, Lindner J, Baumann G, Dawczynski H, Bauch K. [Investigation of antioxidant therapy with sodium selenite in acute pancreatitis. A prospective randomized blind trial]. <i>Med Klin</i> . 2004. Dec 15;99(12):708-12.
<b>12.0 Vitamin D New Section</b>	1	Amrein K, Sourij H, Wagner G, Holl A, Pieber TR, Smolle KH, et al. Short-term effects of high-dose oral vitamin D3 in critically ill vitamin D deficient patients: a randomized, double-blind, placebo-controlled pilot study. <i>Crit Care</i> . 2011;15(2):R104.
<b>Total # RCTs</b>	80**	
<b>Total # unique RCTs</b>	67	

\*\* (includes 11 studies\* that belong in more than one section due to multiple interventions)