

# Protein-calorie malnutrition - a critical assessment of animal models

**North East London Polytechnic - Protein calorie malnutrition, nutritional intervention and personalized cancer care**

Parameter	Test species	Main findings	Reference
<b>Protein-selective induced oxidative stress and neuroinflammation</b>			
Oxidative stress	Rats	Increased CAT and decreased SOD activity in hippocampus after 10 days of PCM diet and decreased anti-oxidant level (GSH 2-3X)	Morales et al., 2010 Morales et al., 2011 Ogata et al., 2011 Ogata et al., 2012 Ogata et al., 2013 Ogata et al., 2014 Ogata et al., 2015 Ogata et al., 2016 Watanabe et al., 2016
Neuroinflammation	Mouse	Decreased serum protein levels and reduced reduced serum IgM and IgG levels	Nishizawa et al., 2007
	Human	Reduced serum IgM and IgG levels and increased serum IgA levels	Nishizawa et al., 2007 Nishizawa et al., 2008 Nishizawa et al., 2009 Nishizawa et al., 2010
	Rats	Decreased serum protein levels and reduced reduced serum IgM and IgG levels	Sakai et al., 2004
	Human	High circulating concentration of TNF- $\alpha$ , IL-6, IL-8, IL-10, IL-12, IL-13, IL-17, reduced proinflammatory cytokine and increased anti-inflammatory cytokine response	Yoshida et al., 2006
	Rats	Increased serum TNF- $\alpha$ and IL-6	Morales et al., 2010 Morales et al., 2011 Morales et al., 2012 Morales et al., 2013 Morales et al., 2014 Morales et al., 2015
<b>Anti-oxidant and anti-inflammatory activities of Saponins</b>			
Anti-oxidant activity	Human	Reduced plasma level of H2O2 and increased SOD activity	Liu et al., 2008
	Rat	Reduced plasma level of anti-oxidants (SOD, GSH and CAT)	Jagtap et al., 2007 Jagtap et al., 2009
	Mouse	Decreased lipid peroxidation, GSH level and anti-oxidant concentrations (SOD and CAT) were increased	Huang et al., 2007
	Mouse	Reduced PCMV infection in hepatocytes, increased SOD and CAT activities, increased GSH level and decreased lipid peroxidation	Huang et al., 2007
	Rat	Reduced plasma level of H2O2 and increased percentage of DNA fragmentation	Huang et al., 2007
	Human	Reduced plasma level of H2O2 and increased UAS, increased SOD, IL-6 expression	Goh et al., 2009
	Mouse	Reduced plasma level of H2O2 and increased SOD and CAT activities, increased GSH level and decreased lipid peroxidation	Goh et al., 2009
	Human	Reduced plasma level of H2O2 and increased SOD and CAT activities, increased GSH level and decreased lipid peroxidation	Goh et al., 2010
	Rat	Reduced expression of TNF- $\alpha$ , IL-6 and IL-8	Goh et al., 2010
	Human	Decreased serum IgG and IgM levels and reduced IgE expression	Goh et al., 2010

Description: -

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## Protein Calorie Malnutrition Coding

However, any loss of LBM associated with PCM may negatively affect wound healing. A third group of animals was fed the C diet in restricted amounts to match the daily caloric intake of the PCM animals pair-fed control, PF.

## Protein Calorie Malnutrition Coding

Welcome to CAB Direct CAB Direct is the most thorough and extensive source of reference in the applied life sciences, incorporating the leading bibliographic databases CAB Abstracts and Global Health. PCM reduces fibroblast activity in both the proliferation phase and remodeling phase, preventing angiogenesis and new collagen formation. Increased nitric oxide formation followed by increased arginase activity induces relative lack of arginine at the wound site and alters whole nutritional status in rats almost within the early healing period.

## Protein Calorie Malnutrition Coding

Zinc deficiency will negatively influence wound healing while oversupplementation appears to have no or potentially negative consequences. E43 - unsp severe protein calorie malnutrition Coding Clinic®, 3rd Quarter 2017, provided guidance on coding severe malnutrition.

## CAB Direct

He remains actively involved in acute reconstructive surgery and hand surgery as well as the management of chronic wounds and burns. The known side-effects of constipation, nausea, and anorexia would suggest the cautious use of narcotics to manage pain in senior citizens with wounds.

## CAB Direct

One of the most common functions of micronutrients, and some macrominerals, is to serve as necessary cofactors for enzymatic reactions. They provided patients with a high protein arginine and micronutrient-rich supplement and found significantly improved healing. CAB Direct provides a convenient, single point of access to all of your CABI database subscriptions.

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