CAM Cancer Complementary and Alternative Medicine for Cancer

Table 1: Systematic review of selenium for the prevention of cancer

Source: Gabriele Dennert, CAM-Cancer Consortium. <u>Selenium for cancer prevention [online document]</u>. 20th October 2013.

First	Number/types of studies	Main	Inclusion criteria	Main results/conclusion	Comments
author	Primary outcomes	outcomes			
year	Number of participants				
(reference)	included				
Dennert <i>et</i>	Six RCTs.	Cancer	RCTs.	'There was no convincing evidence	The risk of bias was considered low for the
al. 2011	Primary outcomes:	incidence	Randomisation of individuals; trials	that selenium supplementation can	trials investigating non-melanoma skin
(19)	- liver cancer: three RCTs (23,		with geographical randomisation were	prevent non-melanoma skin cancer	cancer and prostate cancer. It was
	31-34);*		excluded.	with prostate cancer. The results of the Nutritional Prevention of Cancer	considered unclear for the three trials on
	- prostate cancer: one RCT		Adults at risk of neoplastic disease.		liver cancer.
	(25);		Selenium supplementation at any dose	Trial (NPCT) raised concerns about	
	- non-melanoma skin cancer:		or route of administration for a	possible harmful effects of selenium	
	two RCTs (35, 36).		or no intervention	supplements.'	
	Participants: 43, 408 (94%		Trials using combinations with other		
	men).		substances, with no arm testing for		
			selenium alone, were excluded.		
	NU DOT	6	207		
Lee et al.	Nine RCTs.	Cancer	RCIS.	Overall preventive effect in meta-	Five RCTs were considered to be of 'low
2011	Primary outcomes:	incidence	Selenium supplementation	analyses of nine RCTs: RR=0.76;	quality, three RCIs were considered to be
(20)	- liver cancer: five RCIs (23, 31-		administered singly, not in combination	(95% CI= 0.58-0.99); no preventive	of 'high quality'.
	34, 37, 38);*		with other antioxidant supplements;	effect on six of the seven types of	
	- prostate cancer: one RCT		combination with non-antioxidants was	cancer included in meta-analysis	
	(25);		allowed.	(colorectal, oesophageal, stomach,	
	- skin cancer: three RCTs (35,		Comparison with placebo group.	lung, prostate, non-melanoma skin	
	36, 39).			cancer); reduced risk of liver cancer	
	153, 528 participants			RR 0.55 (95% CI=0.41-0.74).	
	(gender not reported).				

RCTs: randomised controlled trials

RR: relative risk

CI: confidence interval

* Trial data published in several articles