**Online Supplementary Material**

**Search Terms utilized**

Ovid Medline Search 09.05.2014

Ascorbic acid/exp AND vitamin e/exp AND brachial artery/exp OR cardiovascular diseases/exp OR regional blood flow/exp OR endothelium/exp OR vascular OR vasodilation/exp OR hyperemia/exp OR plethysmography/exp AND clinical OR clinical trials OR controlled OR controlled OR clinical trial OR placebo OR randomized OR randomized controlled trial OR randomly OR trial OR trials

Ovid Medline Search 09.05.2014

alpha tocopherol/exp OR ascorbic acid/exp AND atherosclerosis/exp OR endothelial dysfunction/exp OR endothelium/exp OR forearm blood flow/exp hyperemia/exp OR plethysmography/exp OR vascular endothelium/exp OR vein occlusion plethysmography/exp AND clinical OR clinical trials OR controlled OR controlled OR clinical trial OR placebo OR randomized OR randomized controlled trial OR randomly OR trial OR trials

Scopus Search 09.05.2014

((((TITLE-ABS-KEY(vitamin c)) OR (TITLE-ABS-KEY(ascorb\*))) AND ((TITLE-ABS-KEY(vitamin e)) OR (TITLE-ABS-KEY(tocopherol)))) AND ((TITLE-ABS-KEY(flow mediated dilation)) OR (TITLE-ABS-KEY(forearm blood flow)) OR (TITLE-ABS-KEY(laser doppler)) OR (TITLE-ABS-KEY(plethysmography)) OR (TITLE-ABS-KEY(endotheli\*)))) AND ((TITLE-ABS-KEY (groups)) OR ((TITLE-ABS-KEY (randomized controlled trial)) OR (TITLE-ABS-KEY (controlled clinical trial)) OR (TITLE-ABS-KEY (randomized)) OR (TITLE-ABS-KEY (placebo)) OR (TITLE-ABS-KEY (drug therapy)) OR (TITLE-ABS-KEY (randomly)) OR (TITLE-ABS-KEY (trial))))

Cochrane Library search 27.05.2014

Vitamin C:ti,ab,kw AND vitamin E:ti,ab,kw AND plethysmography:ti,ab,kw OR hyperaemia: ti,ab,kw OR forearm blood flow: ti,ab,kw OR endotheli\* dysfunction:ti,ab,kw OR flow mediated dilation:ti,ab,kw OR FMD:ti,ab,kw OR FBF:ti,ab,kw

Hozo et al. formula for calculating the mean and SD from the median and interquartile range:

Mean = (a+2m+b)/4

m: median, a, b: lowest and highest quartile range, respectively.

Variance = 1/12\*[(a-2m+b)2/2 + (b-a)2]



**Figure S1**: Funnel plot for publication bias of the effect of vitamin C on endothelial function



**Figure S2**: Funnel plot for publication bias of the effect of vitamin E on endothelial function



**Figure S3**: Funnel plot for publication bias of the effect of combined vitamin C and E on endothelial function

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