Bone Dietary Lycopene and Disease Risk

Main findings

Data suggest a beneficial relationship between dietary sources of lycopene and bone
mass. Studies shown here, albeit only 3, used clinically relevant endpoints of measure
(bone mineral density, bone mass and fracture incidence), strengthening the relationship
described.

Summary of studies and outcomes

- Number of studies = 3
- Risk estimates (RE) = 4
 - o (-) = 3
 - o N = 1
 - \circ (+) = 0
- Risk estimates by Tomato or Lycopene category
 - o \sqrt{GT} G. Tom =
 - \sqrt{PT} P. Tom =
 - o \sqrt{FT} F. Tom =
 - o $\sqrt{\text{Lyco Lyco}} = 3$ (-), 1 (N)

Table: Relationship between Dietary Lycopene and Bone Health

Study Type	N= studies	NEGATIVE ASSOCIATION (protective) Sample size, n=					NEUTRAL ASSOCIATION (no associated risk or benefit) Sample size, n=					POSTIVE ASSOCIATION (risk factor) Sample size, n=				
Bone																
		≤100	101-200	201-500	501-1000	≥1000	≤100	101-200	201-500	501-1000	≥1000	≤100	101-200	201-500	501-1000	≥1000
RCT	0															
Interv	0															
PC	2				*VLyc											
СС	0															
Cross Sec	1			√Lyc						*VLyc		2 /				
Eco	0															

^{√&}lt;sub>Lyc</sub> – Represents dietary lycopene

^{√&}lt;sub>Lyc</sub> – Framingham Osteoporosis study – conducted PC and CS analyses.