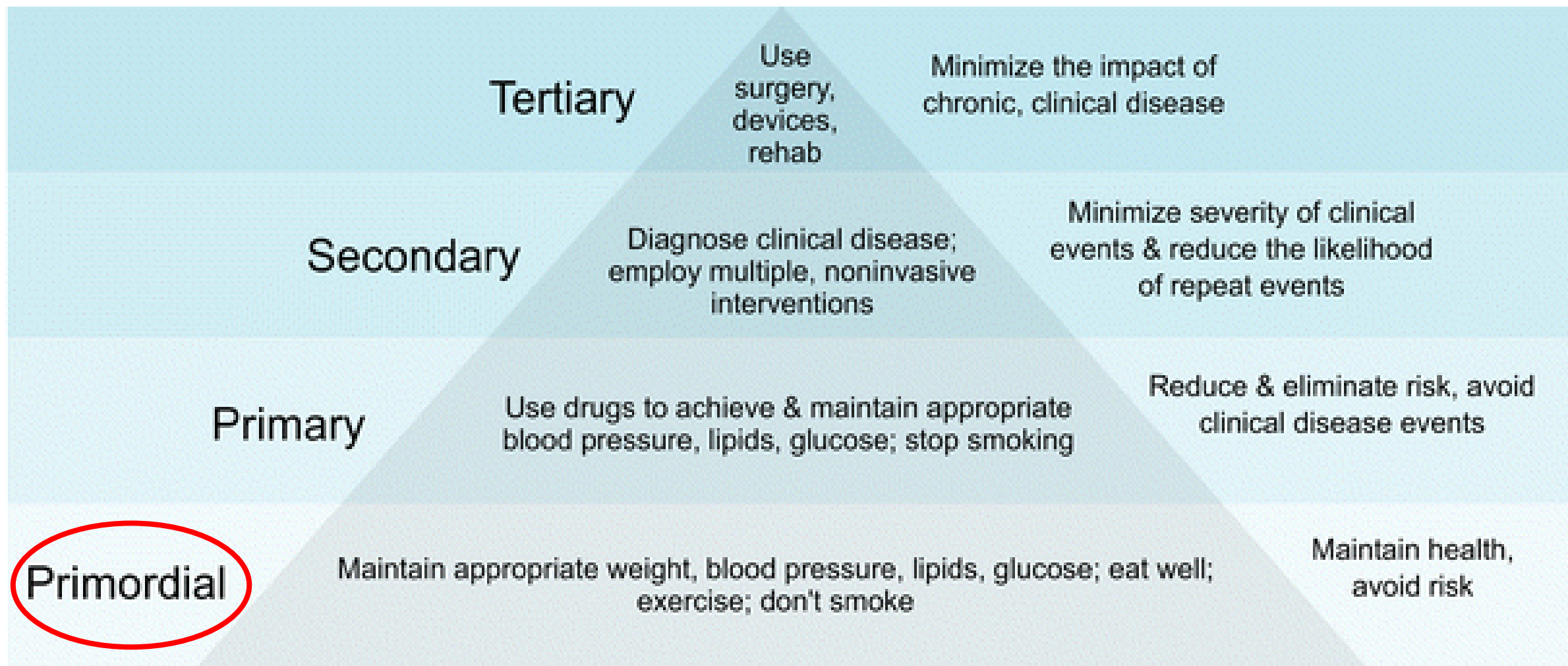
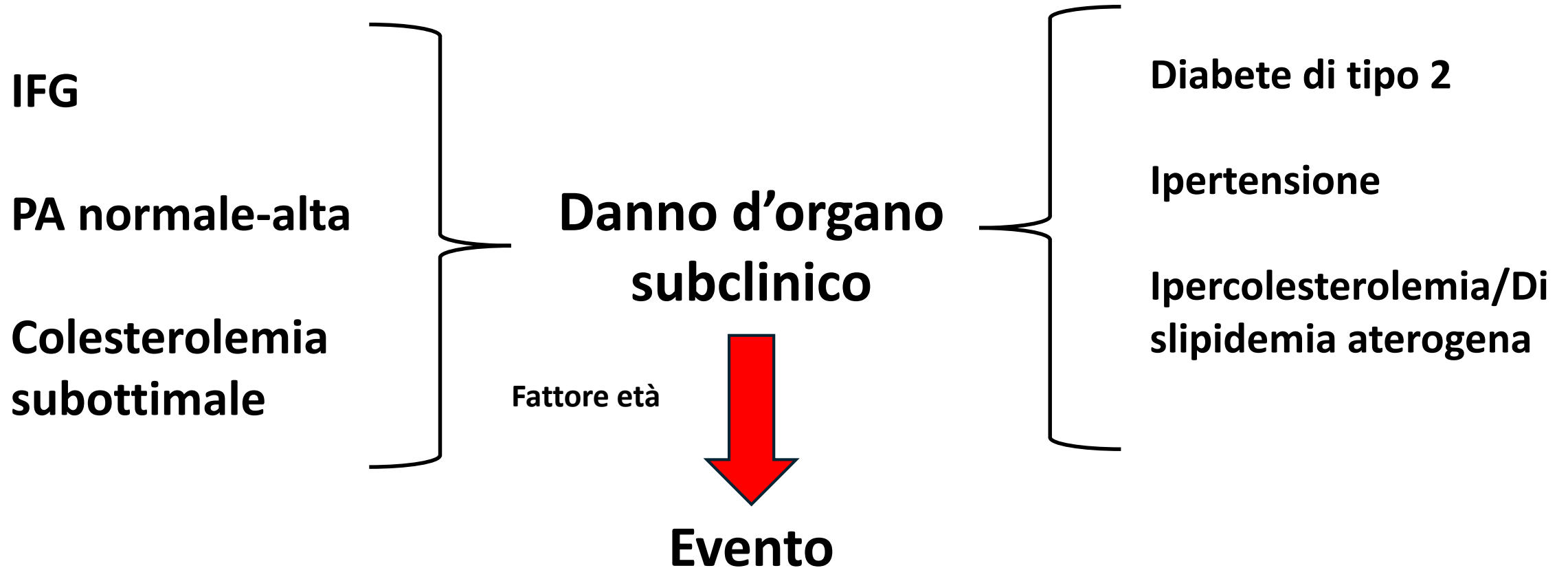


The pyramid of prevention



Il continuum cardiometabolico

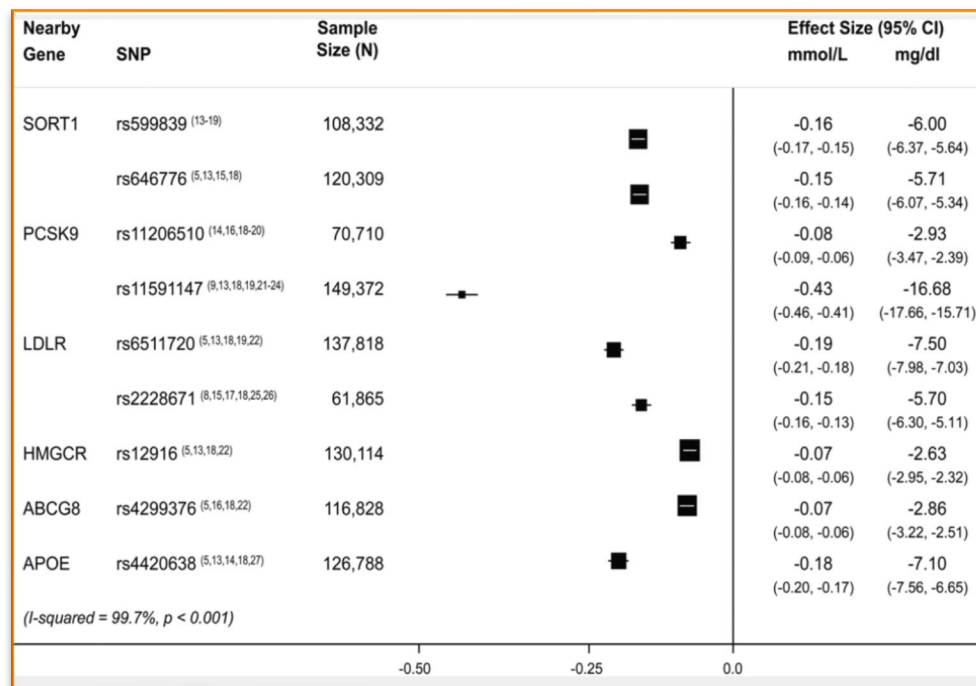


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<http://dx.doi.org/10.1016/j.jacc.2012.09.017>

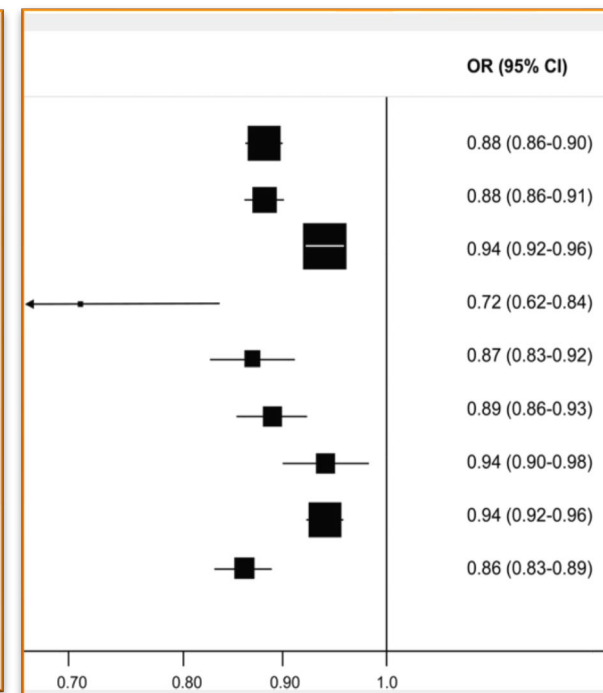
Cardiometabolic Risk

Effect of Long-Term Exposure to Lower
Low-Density Lipoprotein Cholesterol Beginning
Early in Life on the Risk of Coronary Heart Disease

A Mendelian Randomization Analysis



LDL-C level



CHD event risk

Comparative Clinical Benefit

JACC 2017
60(25):2631

Timing of LDL-C Lowering	Source of Point Estimate	Size (N)	Adjusted per 38.7 mg/dl (1 mmol/L) Lower LDL-C		
			OR _{CHD} (95% CI)	RRR (95% CI)	p (difference)
Early in life	mRCT	326,443	0.46 (0.41-0.52)	54% (48-59)	p = 8.4x10 ⁻¹⁹
Later in life	Meta-Analysis of Statin trials	169,138	0.76 (0.74-0.78)	24% (22-26)	

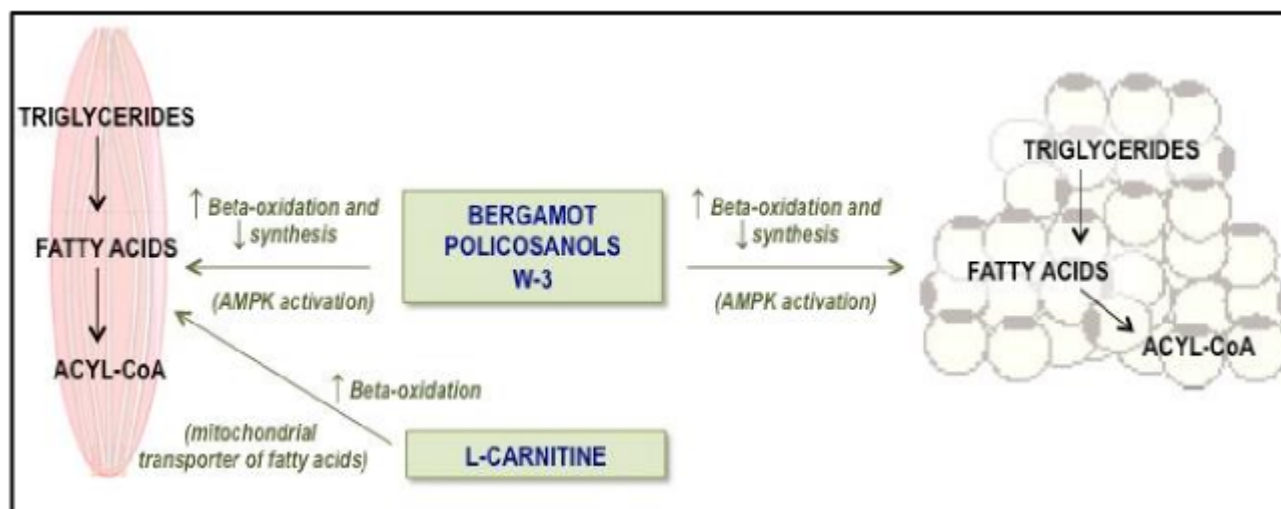
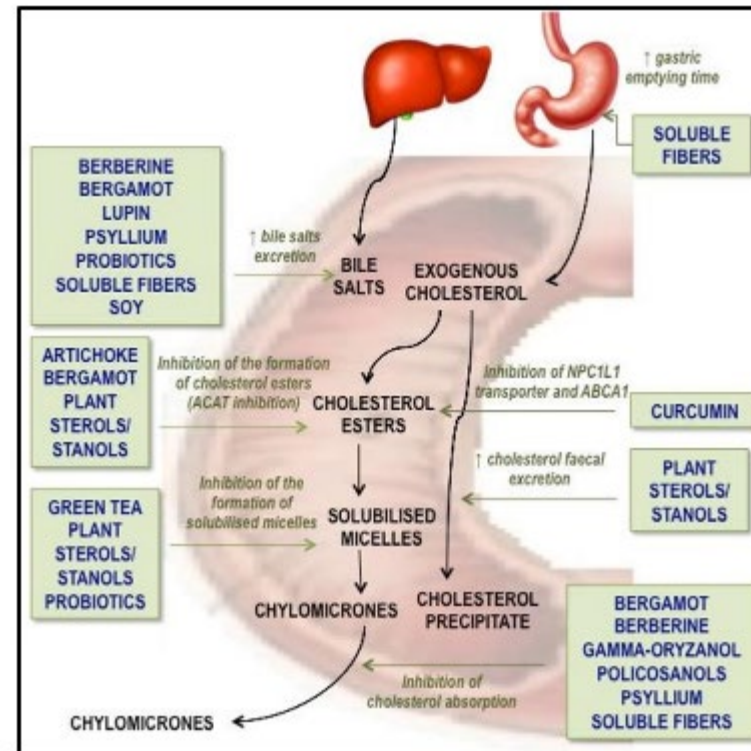
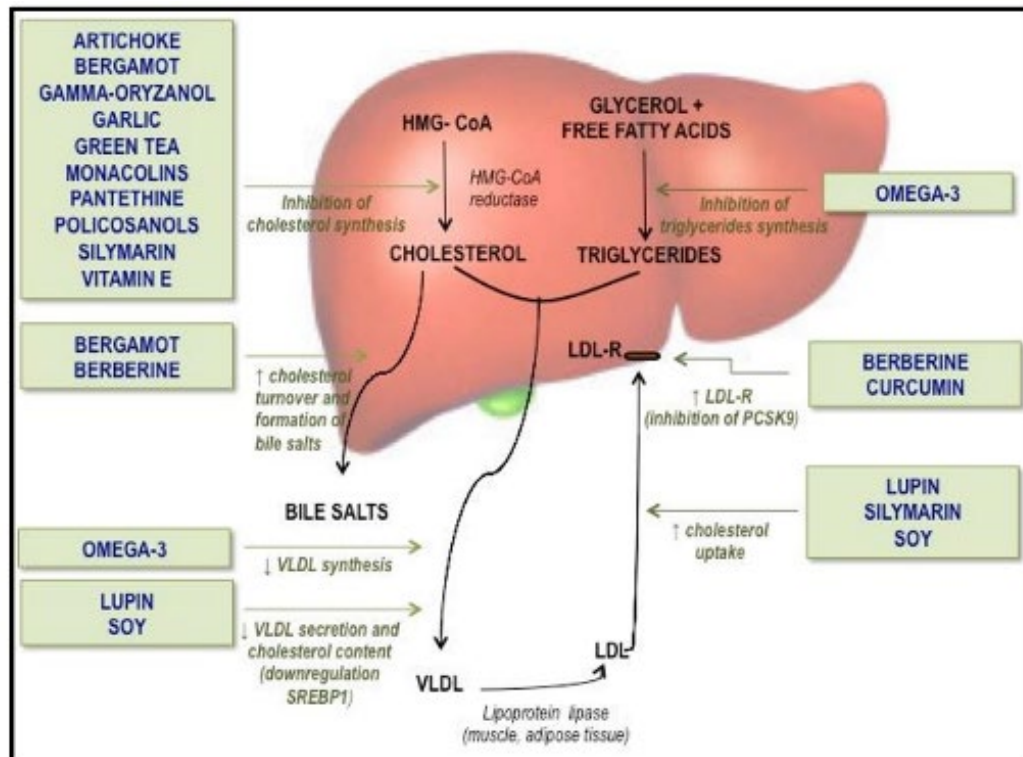
Early in life: 38.7 mg/dl (1 mmol/L) lower LDL-C → ~ 55% RRR (OR: 0.46)

Later in life: 116 mg/dl (3 mmol/L) lower LDL-C → ~ 55% RRR (OR: 0.44 = 0.76*0.76*0.76)

- Prolonged exposure to lower LDL-C beginning early in life associated with *3-fold greater clinical benefit* for each unit lower LDL than treatment with a statin started later in life
 - May explain much of residual risk of coronary events experienced by persons being treated with a statin started later in life

Primordial prevention: the targets

- **Body weight optimization**
- **Borderline/normal high BP -> Optimal BP**
- **Sedentariety -> Increased physical activity**
- **FPG 100-125 mg/dL -> <100 mg/dL**
- **LDL-C 115-160 mg/dL -> <115 mg/dL (the lower, the better)**
- **TG 150-200 mg/dL -> <150 mg/dL**
- **Sleep quality improvement**
- **Stress -> < Stress**





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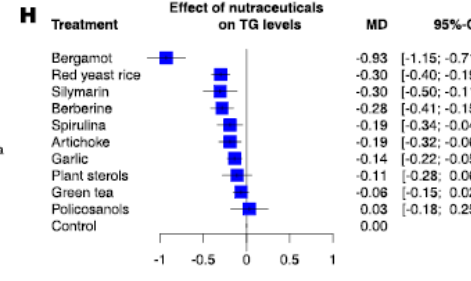
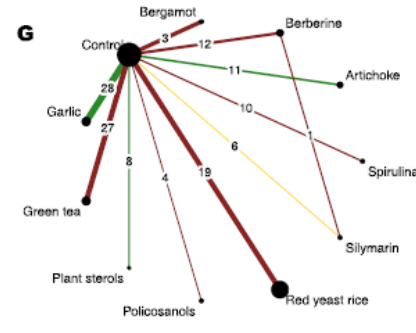
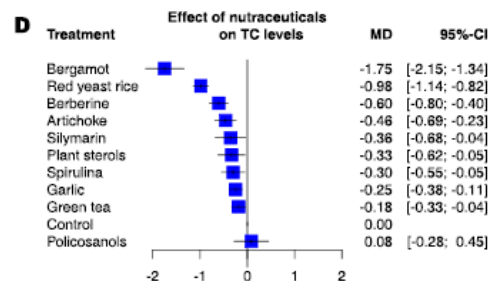
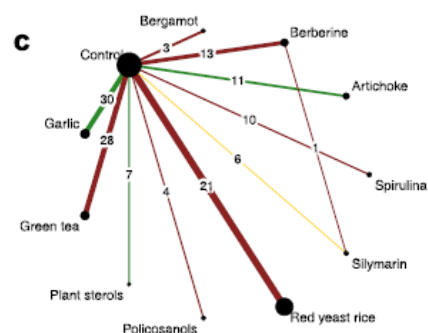
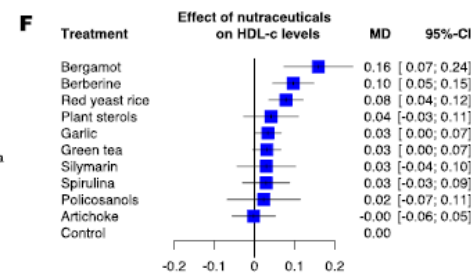
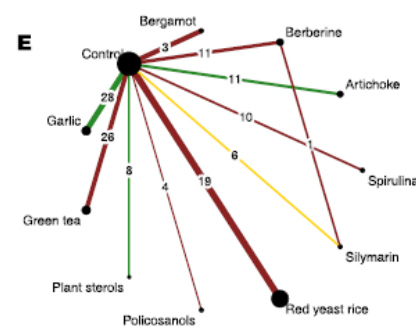
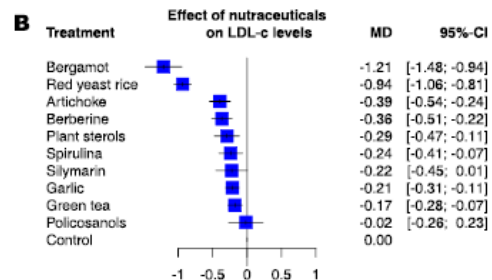
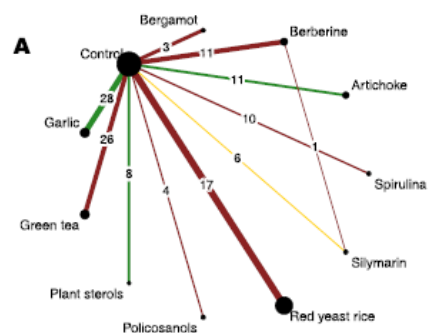
journal homepage: www.elsevier.com/locate/yphrs

Review

A network meta-analysis on the comparative effect of nutraceuticals on lipid profile in adults

Tadeusz Osadnik^a, Marcin Goławski^a, Piotr Lewandowski^a, Jakub Morze^b, Kamila Osadnik^a,
Natalia Pawlas^a, Mateusz Lejawa^a, Grzegorz K. Jakubiak^{a,c}, Agnieszka Mazur^a,
Lucas Schwingschackl^d, Mariusz Gąsior^c, Maciej Banach^{f,*}





Nutra-Nutra and Nutra-Drug association ?

*Cicero AF et al. Curr
Atheroscler Rep.
2021;23(10):57.*

