

MODULATION OF COAGULATION AND PLATELET FUNCTION WITH RED WINE: INSIGHTS FROM CLINICAL EVIDENCE

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BACKGROUND AND AIMS

Understanding the relationship between diet and cardiovascular health, particularly the effects of red wine (RW), on coagulation and platelet function, is critical in elucidating its role in

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METHODS

A comprehensive review of clinical studies was conducted, focusing on the effects of RW consumption on coagulation markers, including prothrombin fragments, activated factor VII,

preventing thrombosis and atherosclerosis.

fibrinogen levels, and platelet aggregation.

RESULTS

The findings indicate a general trend towards decreased thrombotic activation, platelet activation, and plasma viscosity, with some studies noting improvements in endothelial function, reduced arterial stiffness, and beneficial changes in gene expression related to atherosclerosis.

S t S ,	First Authors	Main Findings
	Ceriello, Pignatelli	\downarrow Thrombotic activation, \downarrow Plasma viscosity, \downarrow Platelet activation
	Mansvelt, Coimbra	\downarrow PAI-1, \downarrow Platelet aggregation, \uparrow FMD, \uparrow Nitric oxide
	Mezzano, Kaul	↑ Platelet aggregation, = Bleeding time, = Fibrinogen, = D-dimer
	Whelan, Zilkens	= Carotid plaque volume, = Endothelial function, ↑ FMD
	Naissides, Karatzi	↑ Arterial stiffness, ↑ Vasodilation post-smoking
	Cameli, Huang, Estruch	\uparrow EPC levels, \downarrow LV function, \uparrow RV function, \uparrow Vasodilation
	Chiva-Blanch	↓ Atherosclerosis genes
Karatzi Cameli Cardio with throma		NCLUSIONS earch shows potential diovascular benefits associated n red wine, such as reduced ombotic and platelet activation and proved endothelial function.

