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Hs-CRP as a biomarker of the capillary cell pivot and swing dance

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hs-CRP is an inflammatory protein, produced in the liver and increased in the blood when there is chronic interstitial space inflammation involving one or several end organs. Because of its sensitivity, it can be increased from any chronic inflammatory process but is elevated in the blood stream when vascular inflammatory free radicals are impinging on endothelial and capillary cell basement membranes. Because of its sensitivity to basement membrane impingement, its elevation can be indirectly used as an indicator of how well endothelia and capillaries are dancing. If trending higher or substantially elevated, it can be assumed that interstitial spaces are inflamed, basement membranes are impinged, and that endothelia and capillaries have stopped their pivot and swing in favor of funneling immune arsenal into the interstitial space to combat the free radical onslaught while also having their mitochondrial combustion get stuck in energy production to support the active transport of immune arsenal into the interstitial space. The blocked dance not only blocks the rejuvenating nitric oxide production cycle, but also increases toxic superoxide exhaust which subsequently increases damage to membrane surfaces it attaches to as well as to both nuclear and mitochondrial DNA. This severely impacts the cells coding and transcription apparatus thereby rendering protein synthesis inadequate and making replacement proteins for mitochondria, outer membranes and other organelles ineffective. As the capillary cell infrastructure, choreography and signaling feedback loops diminish, chronic interstitial space inflammation escalates, as rogue immune arsenal, and their bewitched cytokines they release, will seize control interstitial space signaling loops, thereby disease venues of all types will follow. hs-CRP elevation can become an early flag bearer of this cascading proinflammatory momentum years before cancer, scarring, thrombosis, autoimmune complexes or infections become serious interstitial space players.

Notes: