

# 31<sup>ST</sup> ANNUAL WORLD DENTISTRY SUMMIT

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## Medical and dental professionals working hand on hand to extinguish vascular inflammation

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The Bale/Doneen Method, a medical model scientifically proven to identify, treat, halt, and reverse vascular disease and inflammation, advocates for an oral health care component in all cardiovascular wellness programs. Periodontal disease (PD) is generated by microorganisms and the host response. Once these microbes enter the blood stream the bacteremia can have adverse systemic effects promoting such conditions as cardiovascular disease. There is level A evidence that PD is independently associated with arterial disease. The high- risk punitive periodontal pathogens *Aggregatibacter actinomycetemcomitans* (Aa), *Porphyromonas gingivalis* (Pg), *Tannerella forsythia* (Tf), *Treponema denticola* (Td), and *Fusobacterium nucleatum* (Fn) have been shown in many studies to adversely affect the cardiovascular system. There are many methods in which these bacteria can affect the vasculature system; Toll-Like

Receptors (TLR's), toxic affect, and direct invasion. The three essential elements in the pathogenesis of atherosclerosis; lipoprotein serum concentration, endothelial permeability, and the bonding of the lipoproteins to the intima wall have been adversely influenced by high- risk PD pathogens. Therefore, it is reasonable to state that PD, due to high risk pathogens is a contributing cause of atherosclerosis. The treatment protocol for periodontal disease or any oral inflammatory condition should include identifying and reducing bacterial load. Medical and dental professionals are working together to identify and treat the source of the systemic inflammation, arresting the arterial disease process, and providing optimal patient care leading to overall health and wellbeing.

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