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C-TELOPEPTIDE AS DIAGNOSTIC MARKER FOR ACTIVE PERIODONTAL DESTRUCTION- A REVIEW

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ABSTRACT

As classical periodontal disease manifests itself by alternating between periods of active tissue destruction and quiescent intervals it becomes essential to differentiate the two to formulate an adequate treatment plan at the earliest possible time. As current methods of peridontal diagnosis based on clinical parameters like probing depth and clinical attachment loss and radiological diagnostic methods prove inadequate for accurate diagnosis of active destructon areas, newer modalities which involve using biomarkers from oral fluids like saliva and gingival crevicualr fluid are being advocated to supplement clinical diagmostics. As the predominant connective tissue component of periodontal tissues is collagen, the use of collagen degradation products like C-Telopeptides as disease specific biomarkers to identify collagen degradation and bone turnover is gaining current relevance. Hence use of C-TP as a proteome biomarker to identify active periodontal and peri-implant bone destruction from latent disease sites may be useful for predicting disease progression and earlier intervention.

KEYWORDS: C-Telopeptide, Oral Biomarkers, Proteome Diagnostics, Periodontal Disease, Peri-Implantitis, Collagen Degradation Products.

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