

TOPAS: New Technology for Enhanced Oral and Overall Health Care

Multiple Clinical Uses:

Diagnostics - Quantify baseline infection and track treatment progress

Patient Compliance - 5 minute chairside quantitative results confirming dental observations for increased patient awareness and compliance

Hygiene - Utilize to maximize clinical and production capabilities with increased patient recalls and referrals

Implants - Use as an assessment tool to evaluate periodontal infection prior to implant placement



TOPAS Detects and Quantifies Bacterial Toxins and Inflammatory Proteins

TOPAS uses micro-technology to detect and quantify harmful toxins including:

- Reactive thiol compounds such as hydrogen sulfide and methylmercaptan
- Polyamines like cadaverine and putrescine

TOPAS also detects and quantifies the level of inflammatory proteins in GCF

- Protein levels in the infected periodontal pocket can increase from 10 to 100 fold

TOPAS: Rapid, Accurate and Cost Effective Chairside Technology

The quantification of the relative level of infection of a periodontal pocket is critically important in the determination of periodontal disease. Nearly 2,000 possible anaerobic microbes can be involved in the infection of a periodontal pocket, making it difficult to identify and quantify relative levels of infection.

As a growing body of evidence strongly supports a link between periodontal disease and systemic illnesses, value added diagnostics like TOPAS are becoming an integral part in total patient care. As emerging dentistry and medical professionals seek to further define these relationships, this new knowledge may prove useful in intervention strategies to reduce patient risks and prevent systemic disease outcomes.

TOPAS provides a chair-side patient compliance tool to help educate patients on the need for better oral health and links to overall general health.

With increasing knowledge of oral disease patterns and treatment options, it is expected that future clinical practice will incorporate diagnostic based data into treatment plans along with prognosis for dental treatment.

TOPAS provides a rapid multi-site chairside measurement to aid in the evaluation of periodontal disease progression or remission by determining the levels of GCF toxicants and proteins that help identify the most infected sites in the mouth.

Efficacy of treatment protocols such as antibiotics or other known treatment regimens can be evaluated through TOPAS.

Infections inhibit bone growth and prevent successful implant placement. TOPAS can aid in evaluation of relative risk of implant failure.

