

# Research Present Key Findings On Detection Of White Spot Lesions Using The Canary System

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by The Canary System

The Canary System is sufficiently sensitive to detect early white spot lesions according to a study presented at the International Association for Dental Research in Vancouver, Canada by Dr. Clif Carey, University of Colorado Anschutz Medical Campus, School of Dental Medicine. By detecting early white spot lesions, The Canary System gives an early warning of caries or tooth decay activity allowing for early intervention to preserve the integrity of the tooth.

Caries or tooth decay will typically start as a white spot. These white spots may appear on various tooth surfaces and are an indication that destruction of the crystal structure of the tooth has started below the tooth surface. As the decay process advances, the white spot may not change in appearance but the underlying tooth structure is being slowly disrupted and/or destroyed. Waiting for a cavity to develop is not really the appropriate approach to treatment.

The study also concluded that “The larger Canary Number scale allows for greater sensitivity in the detection and classification of the severity of the white spot lesion and is better than a visual evaluation”.

“The Canary System provides dentists with the ability to detect and monitor tooth decay on all tooth surfaces, beneath the edges of fillings, crowns and bridges and underneath sealants. X-Rays can only aid clinicians to diagnose decay on the sides or interproximal areas of teeth once the decay is well advanced into the tooth”, said Dr. Stephen Abrams, co-founder of Quantum Dental Technologies. “Visual detection provides very little information on what is occurring beneath the tooth surface. Early detection of tooth decay, before it is seen visually or on an x-ray means that dentists can treat problems before the decay has destroyed large amounts of vital tooth structure.”

The Canary System, with its unique crystal structure diagnostics, can quantify, image, monitor and record changes in the structure of enamel, dentin and cementum. It can detect caries beneath opaque sealants, around the margins of restorations, around orthodontic brackets and beneath interproximal, occlusal

and smooth surfaces. The Canary Cloud enables dentists to view and manage this data and track Canary usage in the office. The Canary Patient report provides the patient with information on the examination and engages them in their oral health care.

Visit [www.thecanarysystem.com](http://www.thecanarysystem.com) or email [sales@thecanarysystem.com](mailto:sales@thecanarysystem.com) to request additional information.