



**Japan Association
of Microscopic Dentistry**

The 20th Annual Meeting & Scientific Session Lunchtime Seminar

President of the 20th JAMD Annual Meeting : Yoshitsugu Terauchi

Director of organizing committee : Shigetoshi Omote

If DH can use a microscope, let's stick to P mode for the ultrasonic scaler!
~This ultrasonic tip allows for easy removal of tartar from centric molars. ~

Chieko Hayashi

In recent years, more and more dental hygienists have been using microscopes to perform more precise periodontal procedures and prevention. However, instrumentation under a microscope is difficult in some areas. Many dental hygienists find it difficult to properly place the tip of the ultrasonic tip on the tooth surface, especially on the molar centric surfaces, even when using the mirror technique.

I also felt that it was difficult to apply the tip properly, and I tried moving the tip position and moving the microscope, but because I could not apply the tip properly, I could not remove tartar, and I tended to increase the power of the ultrasonic scaler. However, when the power of the ultrasonic scaler was increased, it damaged the tooth surface and made the gums bleed, causing pain to the patient.

After much trial and error, we succeeded in developing an ultrasonic tip with a unique three-dimensional curve (CHM tip). The unique three-dimensional curve allows the tip to be intuitively aligned with the molar centric surfaces. In addition, Nishikibe's unique feature of "giving the ultrasonic tip a blade" enables efficient scaling without increasing the power of the ultrasonic scaler more than necessary. This enables comfortable periodontal treatment without damaging tooth surfaces and without causing pain to the patient. In addition, the three-dimensional curve of the tip allows removal of tartar from anterior teeth without the tip getting in the way and with a clear view of the tartar, which prevents over-instrumentation.

In other words, the CHM tip enables scaling of almost the entire jaw, including the anterior teeth as well as the molar centra, with only two tips, CHM-R and CHM-L. I have two ultrasonic handpieces with CHM-R and CHM-L tips attached to each. This eliminates complications when changing tips and shortens the treatment time.

In this lecture, I will introduce the newly developed CHM tips to dental hygienists who use microscopes, so that both operators and patients can perform stress-free scaling.