



**Japan Association
of Microscopic Dentistry**

The 20th Annual Meeting & Scientific Session Dental Hygienist Symposium

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Winning the Hearts and Minds of Patients. How Dental Hygienists Use Microscopes

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As a digital dentistry practice, we use microscopes for root canal treatment and all other types of treatment in order to achieve a high degree of accuracy.

In particular, in the fabrication of cadcam restorations, the magnification of the teeth projected on the computer is comparable to the magnification of the teeth viewed with a microscope, so we believe that the use of a microscope is very compatible with cadcam treatment.

During the post-treatment maintenance, the precision of the fit of the cadcam restoration margins when observed with the microscope is astonishingly high, and there are no steps that could cause plaque adhesion.

In addition, the dental hygienists at this clinic use the microscope to create an oral environment suitable for digital dentistry before treatment, and to share and achieve the level required by the dentist during post-treatment maintenance.

The oral hygiene instruction using the microscope has clearly led to behavioral changes in patients, not only in improved self-care, but also in better treatment choices afterwards.

However, at our clinic, only dentists were using microscopes at the beginning, and dental hygienists were giving intraoral guidance in the traditional style of "having patients look at it with a hand mirror. The conventional style did not convey what was needed to be conveyed, and it was difficult to achieve the desired change in behavior.

As a result, we were not able to create an oral environment that could support precise treatment, and we were not able to achieve the level of treatment required by dentists, which was very frustrating.

In this article, I would like to explain how dental hygienists use microscopes in our clinic, the path to the use of microscopes, and digital dentistry for dental hygienists using both microscopes and iOS