



**Japan Association
of Microscopic Dentistry**

The 20th Annual Meeting & Scientific Session Lunchtime Seminar

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Another dentistry that dentists don't know about.

Shota Higuchi

It has been a long time since pets began to be called family members, but did you know that these small family members also suffer from oral diseases just like humans? Dentistry in veterinary medicine has made remarkable progress in recent years, and it is now an era where specialized treatment is performed under a microscope. In the case of the speaker, regular dental treatments are carried out at 11 animal hospitals nationwide, and 10 of these hospitals have introduced microscopes, always performing treatments with magnified views. One of the factors that makes dental treatment for animals difficult is general anesthesia. Generally, dental treatments for animals are often performed under general anesthesia, and it is basically necessary to complete the procedure in one session, making it difficult to redo. For this reason, we believe it is necessary to improve precision by performing all processes using a microscope to minimize oversight.

This time, we would like to introduce endodontic therapy and periodontal tissue regeneration therapy in animals, focusing on treatments for dogs and cats. Not only are treatments performed under magnified views, but in endodontic therapy, rubber dams and nickel-titanium files are used just like in humans. However, clamps suitable for canine teeth are not developed globally, and when we first started treatments, it was extremely difficult just to fit them. Additionally, we purchased a micro-CT and accumulated data by imaging extracted teeth, discovering that the apical morphology and taper differ from those of humans. Consequently, we found that it is necessary to use files with various tapers, and although it is a trial-and-error process, animal endodontic therapy is progressing daily. In periodontal disease treatment, compared to humans, the bone regeneration ability is very high, and it is not uncommon to observe remarkable bone regeneration within just a few months. The speed of alveolar bone regeneration and the repair ability of animals will surely astonish many dentists.

We hope you will join us at the venue.