





See fine structures

in more detail.^{2,3}

Endodontic

treatment



treatment

Precise restoration



• Unrivalled visualization of root canal.6 Increased detection of

Improved root

canal treatment

detect second mesiobuccal canal -57.4% vs 18.2% with

no magnification.7

94% microscope vs 59% traditional.8



- Higher positive outcomes in surgery –

Rapid wound

healing^{5,8,13}

• Enhanced tissue management.9-11

margins and finishing

• Precise insertion.9-11

• Simplified procedures.⁹

• Accurate tooth prep. 9-11

• Better identification and removal of leftover materials.3,9,12

lines.9,10

WHEN PERFECTION IS THE GOAL, PRECISION IS THE KEY.



Optimize ability to carry out procedures.^{2,4,5}

Smooth and proper access to the intrabony defect.4

wound closure.4 Minimal bacterial contamination.4

Boosted regeneration.⁴

• Straightforward primary

Better patient

outcomes^{13,14}



References

ENHANCED VISUALIZATION:

*Available on ZEISS EXTARO 300 dental microscope.

Oral Med Oral Pathol Oral Radiol Endod 2005;99:367-371.

- 3. American Association of Endodontists. The dental operating microscope in endodontics. 2016. Available at: https://f3f142zs0k2w1kg84k5p9i1o-wpengine.netdna-ssl.com/specialty/wp-content/uploads/sites/2/2017/07/
- 1. Eichenberger M, et al. Visual acuity of dentists under simulated clinical conditions. Clin Oral Invest 2013;17:725-729. 2. Mamoun JS. A rationale for the use of high-powered magnification or microscopes in general dentistry. Gen Dent 2009;57:18-26.
- 4. Yadav VS, et al. Periodontal microsurgery: Reaching new heights of precision. J Indian Soc Periodontol 2018;22:5-11. 5. Hegde R, et al. Microscope-enhanced periodontal therapy: a review and report of four cases. J Contemp Dent Pract
- 6. Perrin P, et al. Visual acuity and magnification devices in dentistry. A review. Swiss Dent J 2016;126:222-228.
- 7. Buhrley LJ, et al. Effect of magnification on locating the MB2 canal in maxillary molars. J Endod 2002;28:324-327. 8. Setzer FC, et al. Outcome of endodontic surgery: A meta-analysis of the literature - Part 1: Comparison of traditional root-end surgery
- and endodontic microsurgery. J Endod 2010;36:P1757-1765. 9. Van As GA. The use of extreme magnification in fixed prosthodontics. Dent Today 2003;22(6):93-99. 10. Yu H, et al. Minimal invasive microscopic tooth preparation in esthetic restoration: a specialist consensus. Int J Oral Sci 2019;11:31.
- 11. Mamoun JS. Preparing and restoring composite resin restorations. The advantage of high magnification loupes or the dental surgical operating microscope. NY State Dent J 2015;81(4):18-23. 12. Mamoun J and Napoletano D. Using microscopes in fixed prosthodontics: try-in adjustment, and insertion of crowns and bridges. Dent Today 2014;33:86, 88, 90-94.

14. Tsesis I, et al. Comparison of quality of life after surgical endodontic treatment using two techniques: A prospective study. Oral Surg

13. Floratos S and Kim S. Modern endodontic microsurgery concepts: A clinical update. Dent Clin North Am 2017;61:81-91.