

ARTICLE REVIEW

Review of "Endodontic Microsurgery of Posterior Teeth with the Assistance of Dynamic Navigation Technology: A Report of Three Cases" by Fu and Colleagues in *Journal of Endodontics* 2022; Article in Press

Implementation of pioneering technologies in surgical specialties is not an easy task and certainly needs a well-described manual. The article of Fu and colleagues [1] is just a manual for the implementation dynamic navigation-assisted endodontic microsurgery. The publication is prepared by four Chinese co-authors and highlighted on eight pages of precisely illustrated case series [1]. Accordingly to literature there were no previous published cases of the application of dynamic navigation-assisted technology as a companion technology to endodontic microsurgery. The authors are first to report this technology applied to the posterior teeth of the maxilla (one case) and mandible (two cases).

A preoperative diagnosis in all the presented cases was a chronic periapical periodontitis. Clinical procedures of the dynamic navigation technique included: (1) preoperative cone-beam computed tomography (CBCT) scanning, (2) a dynamic navigation system (DHC-ENDO1, DCARER Medical Technology, Suzhou, China) was used for the preoperative surgical path designing, (3) calibration and registration, and (4) real-time dynamic navigation [1]. The endodontic microsurgery in all

cases was performed using OPMI PICO microscope (Carl Zeiss, Gottingen, Germany) [1] which I'm also using in my practice.

In these three molar cases, the authors proved that the novel approach in dynamic navigation—assisted endodontic microsurgery is a feasible, predictable, and timesaving combination of technologies and surgical technique.

REFERENCE (1)

 Fu W, Chen C, Bian Z, Meng L. Endodontic microsurgery of posterior teeth with the assistance of dynamic navigation technology: a report of three cases. *J Endod.* 2022; [article in press]. https://doi.org/10.1016/j.joen.2022.03.010

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