

New techniques and clinical application of the microscope in endodontics

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Endodontics has significantly evolved in the past 20 years, achieving more predictable treatments and a better prognosis. New technologies in endodontics such as the use of the clinical microscope have allowed finding more canals as well as repairing perforations and removing fractured instruments, performing minimally invasive dentistry and so saving teeth in the long term. Nonetheless, all new technology requires the development of new techniques and clinical skills to be able to use this technology at its full potential. For example during Endodontic access new visual guides based on a map of the floor of the pulpar chamber allow a safer and more precise access even in complex cases of calcified canals and crowned teeth; with the support of technology and clinical experience we can carefully go in depth in the pulpar chamber highly decreasing the risks of perforating the root. Likewise, during endodontic treatment it is possible to remove posts and fractured instruments using specially designed techniques with the support of magnification and piezoelectric ultrasonics, saving teeth that previously had to be extracted. The learning curve in the use of the microscope is greatly reduced if we can clinically train in its employment together with the study of the scientific articles that endorse its use.

Biography

Andrei Berdichewsky is a specialist in Endodontics from the Universidad de Chile and has taught in some Universities in Chile as well as founder and past-president of the Society of Microscopic Dentistry of Chile, with more than 20 years of experience in Endodontics and lecturing about new technologies in Endodontics in several Latin-American countries. He has published in Chile and abroad about new technologies in Endodontics. He is the Director of the Endo Clinic, a reference center in Chile with exclusive dedication to Endodontics.

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