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SEPARATED INSTRUMENTS: EVIDENCE-BASED APPROACH TO MANAGEMENT AND PROGNOSIS

Instrument separation can occur during everyday practice. It is one of the most frustrating situations for both the dentist and the patient. Retrieval of such broken instruments presents a great challenge even for the most experienced clinician. The integration of technologies like surgical microscopes, ultrasonics, and CBCT made the removal of such broken instruments a more reliable procedure. An up-to-date literature review on the prevalence, prevention, causes, and prognosis of separated instruments will be covered in this lecture. Different cases with broken instruments where management was possible will be included. The prognosis of these cases with follow-up radiographs up to ten years will be presented. In conclusion, participants should be able to:

1. List the factors affecting the clinician's ability to successfully remove broken instruments.
2. Evaluate Different methods used for retrieval with special reference to their advantages and limitations.
3. Master ultrasonic retrieval of broken instruments.
4. Execute bypass of broken instruments.

CV

Prof Hashem graduated from the Faculty of Oral and Dental Medicine, Cairo University in 1990. He got his master's degree from the same university in 1997. In 2001, he finished his Ph.D. in Endodontics from the Faculty of Dentistry, Ain Shams University, and was promoted to be a lecturer in the Endodontic department at the same university. He among others established the Egyptian Association of Endodontists in 2001. He was awarded the best research prize in Ain Shams University in 2005. In 2007, He became an associate professor in the same faculty. In 2009, he among others established the Arab Micro-Dentistry Association and became its president. He was assigned the head of the postgraduate continuous education in the faculty of Dentistry, at Ain Shams University in 2010. In 2011, Dr. Hashem moved to the Faculty of Oral and Dental Medicine at Future University where he founded and started one of the finest education centers in the Middle East. Dr. Hashem has conducted a postgraduate Micro-Endodontic course every month in this center since 2012. In 2012, he was promoted to a full Professor position in the Department of Endodontics at the same University. He has been since 2012 visiting Metro-Health Hospital in Cleveland, USA, and conducting a micro-endodontic course for the residents of the general residency program there. The Egyptian Association of Endodontists chose Dr. Hashem to be Egypt's country representative in the International Federation of Endodontic Associations in 2014. He became a certified speaker to FDI in 2014. He has been serving also as the general secretary of the Egyptian Association of Endodontists since 2015. At the beginning of 2016, Dr. Hashem joined the board of the Egyptian Dental Syndicate and was acting as the head of the continuous education committee. He was nominated as a Fellow of the International College of Dentists (FICD) in 2016. In 2018, He was chosen as Africa Regent director in the International Federation of Endodontic Associations (IFEA). In 2019, he became the head of the endodontic dept., Future University. Then, he became the head of Endodontic dept., Ain Shams University in 2020. Now he is the director of research in Cleveland Dental Institute, OH, USA. Dr. Hashem is a member of several national and international associations. He is a reviewer in several prestigious international journals including JOE, IEJ, Scientific reports, Saudi Endodontic Journal, and others. He lectured at numerous national and international conferences.

Prof. Hashem has more than 50 publications in the Journal of Endodontics, the Journal of Adhesive Dentistry, the International Endodontic Journal, Clinical Oral Investigation, the Asian Journal for Animal Sciences, and the Journal for Experimental and Toxicologic Pathology, and others.

Prof. Hashem has held a private practice limited to Micro Endodontics in Cairo since 2002.