

Endodontic re-treatment of an upper second molar with a complex anatomy

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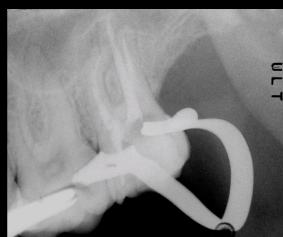
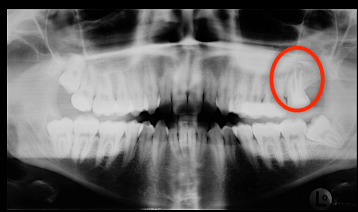
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Aim

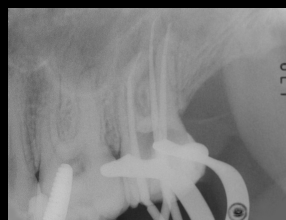
Presentation of a complex case of endodontic re-treatment concerning a second maxillary left molar with chronic exacerbated apical periodontitis, having a particular anatomy.



Methodology

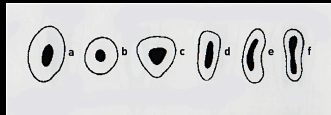
With the aid of a surgical microscope it was possible to probe and treat the fourth channel which was not previously probed, in the mesio-vestibular root (MB2), objectifying its confluence in the third apical channel with the MB1.

Therefore it depicted an anatomy classified as type II according to Weine, type II-III according to Vertucci, and "f" according to Lautrou (laminar channel). Moreover, it was also found the presence of a complex root canal system (2 channels transversely confluent) between the two vestibular roots, as evidenced in the final radiography.



Results

By means of the endodontic therapy described we obtained a perfect healing of the lesion initially present, and so we restored the tooth with an adhesive post and core reconstruction, and through a final composite onlay.



Conclusions

The presence of MB2 represents in the second upper molars a clinical eventuality that may occur with a changeable degree of variability and that on average occurs in 41.7% of cases.

The long cleansing with heated hypochlorite has also allowed the partial cleansing of the root canal system not previously cleansed and especially not shapeable as was deduced both by microscopy observation of the debris that flowed during washing, and by the final radiographies, where we observed the filling of confluences between the two mesio-vestibular channels and between the two mesio- and disto-vestibular roots (confluent transverse channels).



Acknowledgements

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