Apex locator more precise than CBCT

ollar standard over the last few years. The Deut-
sche Gesellschaft für Zahn-, Mund- und Kieferheil-
kunde (German association for dental, oral and max-
illofacial surgery) confirmed in a statement that this
technique is superior to working length determi-
ation with a conventional radiograph. However, 3-D
radiography (CBCT) provides an additional method
for determining the endodontic working length.

A study conducted at the University of Granada in
Spain evaluated the accuracy of working length de-
termination based on these modern methods. For this
purpose, 150 extracted teeth were randomly divided
into five groups. The working length was determined
electronically with the RAYPEX 6 apex locator in four
groups, under dry conditions or in the presence of
three different irrigating solutions. The working
length of the fifth group was determined radiologi-
cally with a CBCT scan. Measuring points were the
major foramen and the apical constriction.

The results obtained by electronic measurement
were more reliable than by CBCT scan, in particular re-
garding the determination of the major foramen. The
study therefore confirmed that RAYPEX 6 measures
the working length with more accuracy and reliabil-
ity than CBCT does.

The study and a complete list of references are
available online at http://onlinelibrary.wiley.com/doi/
10.1111/iej.12140/abstract.

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