Management of Apical Periodontitis: Healing of Post-treatment Periapical Lesions Present 1 Year after Endodontics Treatment

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**Aim**
To evaluate the volumetric changes in post-treatment periapical lesion after 2 yrs of treatment.

**Materials & methods**
- 60 singles rooted teeth (51 patients) with PAR observed 1 yr and 2yr after RCT were included in this study.
- All teeth initially received the same disinfection and treatment protocol.
- At the one yr. follow up, a CBCT scan was taken for all the teeth and the size of the lesion was measured.
- At the 2 yr. follow up, another CBCT scan was taken to reevaluate the size of the PAR.
- The presence of a reduction or increase in volume was determined.
- Teeth were clinically evaluated for any symptoms
- Statistical analysis was performed to compare the difference in volume of the PAR at the 1 & 2 yrs.

**Results**
- 63% of teeth showed reduction in the size of the lesions between the 1st and the 2nd year.
- 22% had complete healing.
- 33% had no change.
- 3% had increase in lesion size.
- All 60 teeth were asymptomatic at the 2 years recall appointment.

**Conclusion**
- The healing of apical periodontitis is a dynamic process that needs time.
- The volume of post-treatment PAR detected 1 year after treatment was significantly reduced after the second year in 63% of teeth.

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