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Evaluation of the Apical Seal Produced by the McSpadden Compactor and by Lateral Condensation with a Chloroform-softened Primary Cone

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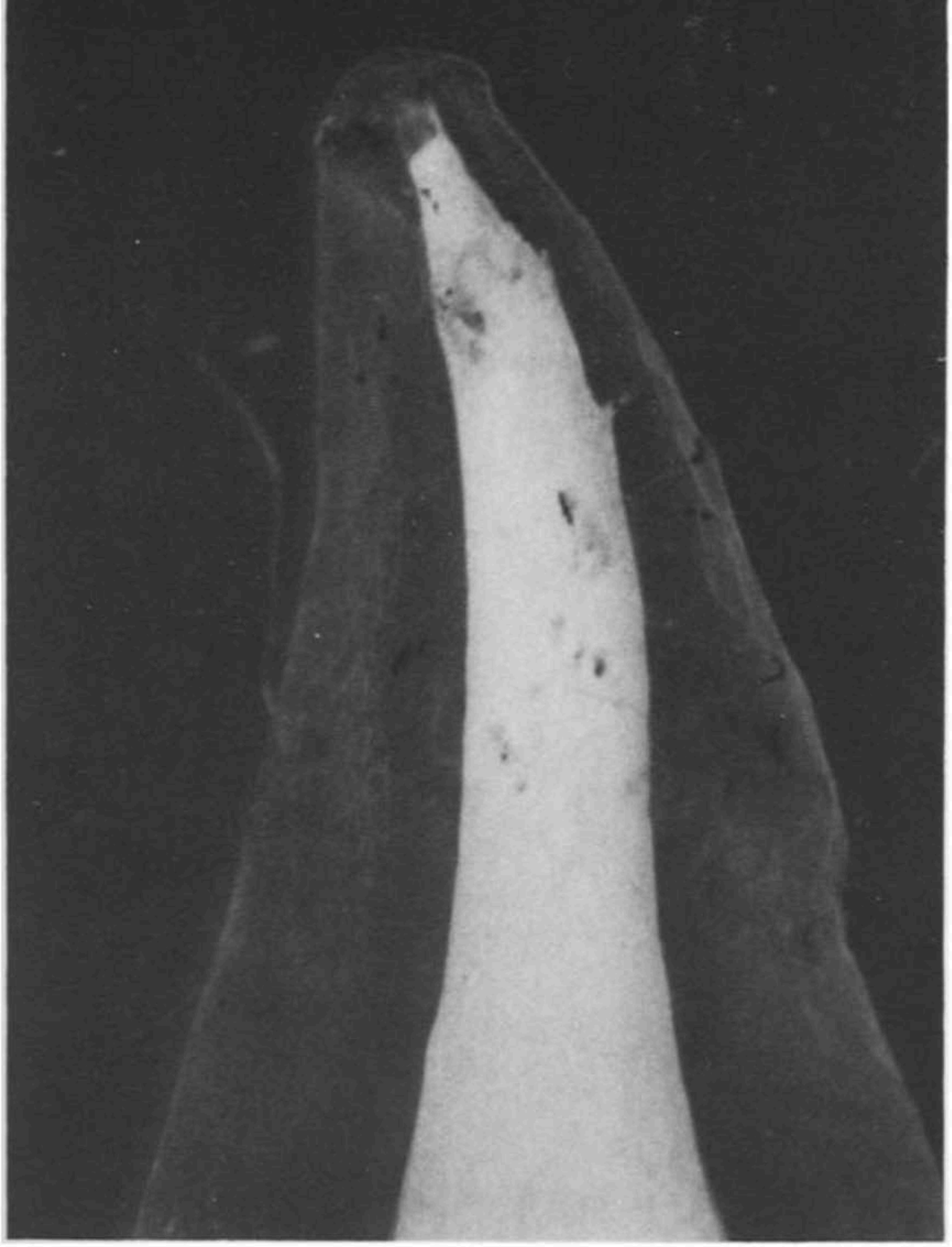

FIG 1. Tooth filled with gutta-percha and sealer using the Mc-Spadden Compactor (group A). No India ink penetrated beyond the level of the apical seat.

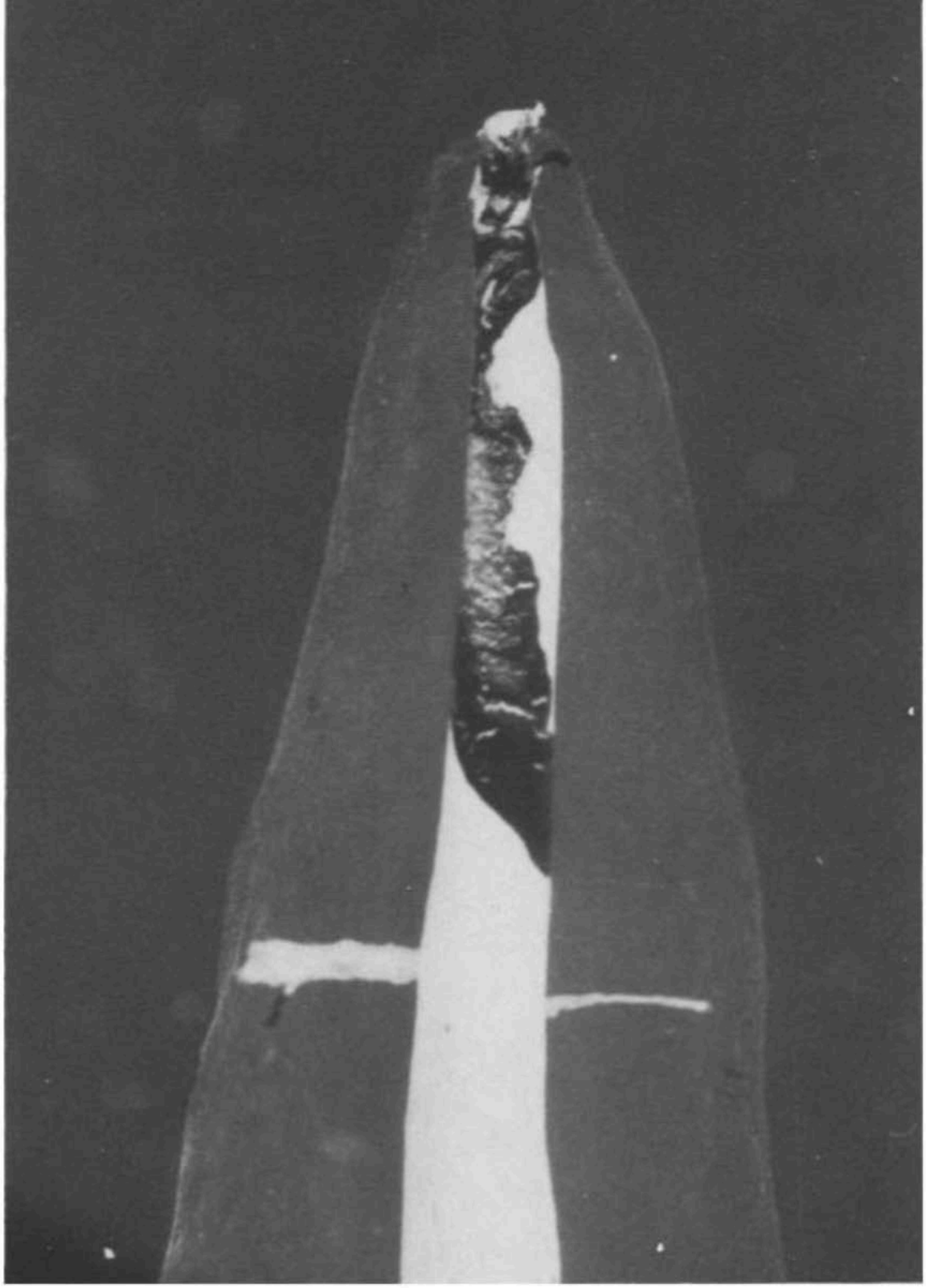

FIG 2. Tooth filled with a chloroform-softened gutta-percha cone and sealer using lateral condensation (group C). India ink extends 5.00 mm into the canal beyond the apical seat.

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An In Vitro Assessment of the Quality of Apical Seal of Thermomechanically Obturated Canals with and without Sealer

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No statistically significant difference in leakage was observed between the lateral condensation and thermomechanical condensation groups providing sealer was used.

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Evaluation of the Apical Seal Produced by a Hybrid Root Canal Filling Method, Combining Lateral Condensation and Thermatic Compaction

Evaluacion del Cierre Apical Producido por un Metodo Hibrido de Obturacion de Conductos, Combinando Condensacion Lateral y Compactacion Termica

Michael Tagger, DMD, MS, Aviad Tamse, DMD, Alexander Katz, DMD, and Barry H. Korzen, DDS

The roots filled with the hybrid technique leaked significantly less ($p < 0.05$) than the lateral condensation group (0.1 versus 0.475 mm mean penetration).