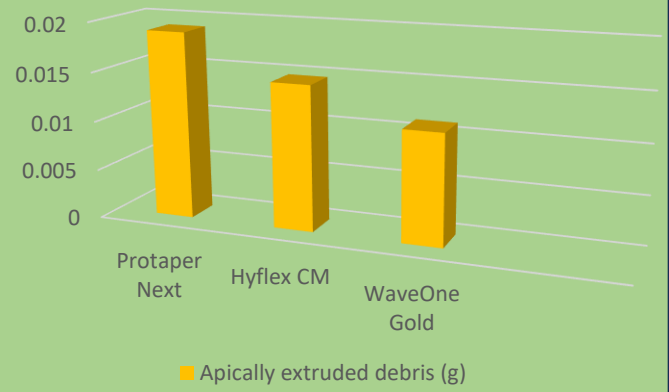
39th IACDE National Conference

Apically extruded debris associated with Hyflex CM, WaveOne Gold, and Protaper Next file systems: An in vitro study

MATERIAL AND METHOD

RESULT

Debris extrusion in (g)			
Study group	Pre-weight (g): Eppendorf tube (mean)	Post-weight (g): Eppendorf tube + Irrigant + Debris (mean)	Net weight (g): Extruded debris (mean)
1	0.493	0.518	0.025
2	0.491	0.498	0.007
3	0.495	0.502	0.005



STATISTICAL ANALYSIS

	Mean	Significant difference (P<0.05)
Protaper Next	0.0016	0.000530
Hyflex CM	0.00138	0.000804
WaveOne Gold	0.00116	0.000620

In the present study, the Hyflex CM system extruded quantitatively less debris than the PTN system, with no significant difference, and extruded more debris than the WaveOne Gold system, with no significant difference.

CONCLUSION

Under the experimental conditions of the present study, it can be concluded that all the instrumentation systems led to apical debris extrusion. However, WaveOne Gold system resulted in significantly less debris extrusion than the PTN system.

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