

## · 临床报道 ·

## 超声冲洗用于慢性牙髓炎一次法根管治疗术的临床评价

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**【摘要】目的** 评价根管超声冲洗技术对成人磨牙慢性牙髓炎一次法根管治疗术短期疗效的影响。**方法** 168 颗患牙按掷硬币的方法分为超声冲洗组 86 颗和常规组 82 颗, 局麻下开髓、拔髓和根管预备, 根管充填前常规组用 2 mL 5.25% 的次氯酸钠溶液冲洗; 超声冲洗组用 2 ml 5.25% 次氯酸钠溶液注入根管, 15 号超声锉荡洗 2 min, 期间不断补充新鲜液体。2 组最后均使用 17% EDTA 冲洗, 吸干热牙胶垂直加压充填根管, 窝洞暂封。3 天后复诊完成冠部充填。治疗后观察根管充填质量及侧支根管充填情况、3 天内疼痛发生情况以及 1 年后的治疗疗效。**结果** 超声组术后即刻侧支根管充填率提高, 两组差异有统计学意义 ( $P<0.05$ ); 根管充填后 3 天内超声组疼痛发生率明显低于常规组 ( $P<0.05$ ); 2 组 1 年后疗效差异无统计学意义 ( $P>0.05$ )。**结论** 超声冲洗能短期内降低术后疼痛发生率, 提高侧支根管充填率, 有很好的临床应用效果。

**【关键词】** 超声冲洗 慢性牙髓炎 一次法根管治疗术 术后疼痛

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### The clinical evaluation of ultrasonic irrigation applied in one-visit root canal therapy of chronic pulpitis

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**【Abstract】Objective** To assess the efficacy of ultrasonic irrigation on the one-visit root canal therapy of the Chronic pulpitis. **Methods** A total of 168 teeth were randomly divided into two groups (convention group 82, and ultrasonic irrigation group 86) according to the coin. Two groups were placed rubber dam after local anesthesia and instrumented by rotary nickel-titan protaper. Before the filling the ultrasonic irrigation group teeth were irrigated for 2 minutes used 15 ultrasonic file in 5.25% sodium hypochlorite solution; while the convention group teeth were irrigated by syringe as control. Finally the two groups were irrigated by 17% EDTA and filling by hot gutta-percha vertical. The postoperative pain after one-year successful rate were evaluated. The quality of root canal obturation, the number of lateral canals obturated, the postoperative pain during three days, One-year curative effect were obsened. **Results** The density of the obturation of lateral canals after the ultrasonic inrigation have been improved ( $P<0.05$ ). There were significant differences between the two groups in postoperative pain after three days ( $P<0.05$ ). One year later, no significant difference in clinical efficacy ( $P>0.05$ ). **Conclusion** Ultrasonic irrigation could obviously decrease postoperative pain and improve the quality of root canal obturation. So the ultrasonic irrigation is a favorable technique for root canal therapy.

**【Key words】** Ultrasonic irrigation Chronic pulpitis One-visit root canal therapy Postoperative pain