Effect of endoscope assisted tympanotomy tube insertion combined with levofloxacin on secretory otitis media

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To investigate the effect of endoscope assisted tympanotomy tube insertion combined with levofloxacin on secretory otitis media. Methods: A total of 74 patients with secretory otitis media were randomly divided into observed group (43 cases) and control group (31 cases). Patients in control group only received tympanotomy tube insertion under endoscope, while patients in observation group received tympanotomy tube insertion combined with levofloxacin. The curative effect was observed and compared. Results: Total effective rate was 95.35% in the control group, and 77.42% in control group, with significantly difference between two groups (P<0.05). Positive rate of bacterial culture before treatment was 41.86% in observation group, and 41.93% in control group. After treatment, 17 cases was removal which bacterial clearance rate was 94.29% in observation group, and 9 cases was cleared which bacterial clearance rate was 69.23% in control group. The difference was statistically significant in bacterial clearance rate (P<0.05). The relapse rate, infection rate and the incidence of otorrhea in observation group were significantly lower than those of control group (P<0.05). Conclusions: Endoscope assisted tympanotomy tube insertion combined with levofloxacin is effective on treating secretory otitis media, with high bacterial clearance rate. It can significantly reduce the relapse rate and infection rate, so is worthy of clinical application.

[KEY WORDS] Endoscope; Secretory otitis media; Tympanotomy tube insertion insertion; Levo-
levofloxacin