Effect of ambroxol hydrochloride and clenbuterol hydrochloride tablets combined with azithromycin intervention on anti-inflammatory, proinflammatory cytokines and immune function in children with mycoplasma pneumonia

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

[ABSTRACT] Objective: To study effect of ambroxol hydrochloride and clenbuterol hydrochloride tablets combined with azithromycin intervention on anti-inflammatory, proinflammatory cytokines and immune function in children with mycoplasma pneumonia. Methods: A total of 138 cases with mycoplasma pneumonia were randomly divided into control group and observation group by half. All children received basic treatment. Patients in control group were given with intravenous infusion of azithromycin. While patients in observation had azithromycin combined ambroxol hydrochloride and clenbuterol hydrochloride tablets treatment. Results: The total efficiency of the observation group was 94.20%, significantly higher than that of the control group (P<0.05). After treatment, IL-2, IL-4 and IL-10 levels in two groups were improved. But the improvement was more significant than the observation group (P<0.01). After treatment, IL-6, TNF-α and IFN-γ levels in two groups were decreased, and the decrease was more significant in the observation group (P<0.01). After treatment, CD3+ and CD4+ were increased, and CD8+ was decreased in two groups. But CD3+ and CD4+ levels of the observation group were higher than that in the control group. Levels of CD8+ group of the observation group was lower than the control group, the difference was statistically significant (P<0.01). Conclusions: Ambroxol hydrochloride and clenbuterol hydrochloride tablets combined with azithromycin treatment have good curative effect. It can significantly reduce inflammation and improve immunity function of patients.

[KEY WORDS] Mycoplasma pneumonia; Azithromycin; Ambroxol hydrochloride and clenbuterol hydrochloride tablets; Inflammatory cytokines; Immune function