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**Title:** A pilot study for benign central airway stenosis: Local injection of triamcinolone acetonide therapy

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**Body:** Objectives: To evaluate the efficacy and security of local injection of Triamcinolone acetonide (TA) for benign central airway stenosis (BAS). Methods: Forty intractable BAS patients were selected and averagely divided into treatment group and control group. Local injection of TA was used to cover entire stenosis lesions. Interventional procedures were combined to manage complicated airway stenosis. After a 6 months follow-up, compared two groups with airway diameter, stricture rate, dyspnea score, and clinical stabilization before and after the treatment. Results: No statistically significant differences in the two groups. A 6 months follow-up, 16 patients remain stable after treatment, besides 4 patients appear restenosis in treatment group, compare with Control group 20 cases restenosis. Restenosis interphase time and clinical stabilization time was markedly increased.

TA group treatment results

evaluation time	airway diameter(mm)	Stricture rate(%)	Dyspnea score	Clinical stationary time(days)
before TA treatment	3.10±1.83	77.08±13.63	3.45±0.51	10.95±5.49
after TA treatment	9.30±2.34	26.82±12.69	0.35±0.49	98.75±55.58
Statistics	13.102	10.455	20.743	5.724

p<0.01

TA group compare with control group after 6 months follow up

groups	airway diameter(mm)	Stricture rate(%)	Dyspnea score	Clinical stationary time(days)
TA	8.70±2.52	29.17±14.55	0.55±0.76	98.75±55.58
control	4.50±1.64	64.80±13.35	2.70±0.92	11.35±4.39
Statistics	6.658	8.161	7.844	7.070

$p < 0.01$

No local injections related complications was recorded. Conclusion: Local injections of TA therapy combined with traditional interventional techniques for BAS has good curative effect. It shows advantages in long-term efficacy, few side-effects, and good safety.