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Curative effect observation and nursing care of oral mucosal rupture caused by paraquat poisoning with badger fat

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Objective: Badger fat is an ointment processed and boiled from subcutaneous fat oil of badgers (also called *Meles meles*, a species of weasel). It is recorded in many early Mongolian medicine literatures that badger fat has good curative effect of swelling reduction, pain relief, treatment of burns and frostbite, and modern Mongolian medicine pharmacology also reports that its treatment affects burns. Badger fat is one of the important medicinal materials used to treat scald in China and it has been reported that, badger fat combined with comfrey has good curative effect in the treatment of patients with severe alkali burns. Here, we discuss the clinical curative effect of badger fat on paraquat poisoning-induced oral mucosa damage.

Method: 82 paraquat poisoning cases treated in our emergency department in four years were divided into experimental group and control group. Experimental group patients were given badger fat smeared locally three times a day on the basis of conventional oral care, while control group patients were given normal oral care. The time of oral mucosal damage, recovery and the oral pain score after 72 hours of exposure was compared between the two groups.

Results: There was no significant difference between the two groups in gender, age and oral dosage of paraquat ($P>0.05$). The onset of mucosal damage in the experimental group was later than that in the control group and the VAS score was lower than that in the control group at the same time. The recovery time of oral mucosal damage in the experimental group was also shortened. Each of these difference between the two groups were statistically significant ($P<0.05$).

Conclusion: Badger fat, which has curative effect on burns and scalds, can be also used in treating patients with oral mucosa damage caused by paraquat poisoning.