

Clinical effects of Hippophae seed oil in the treatment of 32 burn cases

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Abstract

The satisfied effects of Hippophae seed oil in treating 32 burn cases were archived in clinical treatment.

Key Words: Hippophae seed oil, burns, scalds, effectiveness

1. General Information:

Thirty-two cases were treated, among them 19 cases were males, 13 cases were females; the oldest was 78 years old, the youngest was 1 year and two months old. Twenty-eight cases of scalds were caused by various reasons, and four cases were caused by gas burning; among them 12 cases were degree I burning, 18 cases were degree II light burning, 2 cases were degree II serious burning. In 14 cases, the burnt area were 5%, and 10 cases were under 10%, 1 case was 15%, and 4 case were above 20%. In 28 cases, they were treated with Hippophae seed oil directly after burning, and in 4 cases, they were treated in other hospital first and then transferred and treated with Hippophae seed oil.

2 The treatment methods:

2.2 The treatment method: Hippophae seed oil disinfection medicine was applied to the cleaned burning area, and then scorched under lamp, 3-4 times every day, which made a thin membrane of Hippophae seed oil on the burning area.

2.3 Course of treatment: General 5-7 day as one course of treatment.

2.4 Clinical treatment: For all thirty-two cases, they were only treated with Hippophae seed oil without adding any other medicines.

2.5 Treatment of the accompanying symptoms: The accompanying symptoms such as dehydrate and shock were treated according to their symptoms.

3. Evaluation of the effectiveness

Normally, for the degree I or light degree II burning, pains were relieved after applying the medicine three times, and the swollen was disappeared in 48 hours, and the burning area was recovered after 4-5 days without any scars, the skin surface was pink at the beginning, and then changed to normal color later. For the serious degree II burning, the pains were relived after applying the medicine for 4-5 times, and the burning area recovered after 6-7 day without any scars, and the skin surface was pink at the beginning, and then changed to normal color later. For those lighter than serious degree II burning, as long as there were no infections when reported to hospital, we evaluated the treatment as effectiveness only if there were no scars left after treatment.

Degree II light	18	5	Cured	100
Degree II serious	2	7	Cured	100

5. Typical cases

Patient Liu, male, a little over one year old, scalds in face, chest by boiling water, swelled for about 1 hour, health check; the patient was crying and making noisy, swollen in face, neck and front chest with some small blisters. Diagnose: degree I scald in face and front chest, with 7% burnt area. After cleaning, the burnt areas were applied with Hippophae seed oil once, and the baby stopped crying, and two days later, it was cured and no scars were left later.

Patient Wang, female, 78 years old, both legs were burnt by boiling water, swollen with blisters with unbearable pains. When checked, the swollen area in both legs were obvious, with different size of blister in burnt area, there were light yellow liquids or solid gel-like material in the blisters; red color was observed in the areas where skin came off, the burnt area was humid and soft, with very sensitive pains, and numerous micro-blood vessel were exposed, the burnt area was 22%. Diagnose: degree II light burning, 22% burnt area. After cleaning, the burnt areas were applied with Hippophae seed oil. After twice applied and scorched, the pains relieved, and liquid stop coming out from burnt area, cured 5 days later with no scar left, checked 20 days later, there were some pigment deposited in the burnt area.

Patient Yan, male, thirty-two years old, both hands and front arms were burnt by

become soft, and partial temperature became normal, two days later, the liquid stopped in the burnt area, cured seven days later, no scars were left, and the both arms function were recovered to normal.

Patient Wang, male, 46 years old, low abdomen, and the upper part of both legs were burnt by gas for about 7 hours. Health check: temperature 37.8 °C, pulse 82 times/min, respiration 21 times/min, blood pressure 12/6 kPa, Lower temperature, humid, swollen and different size blisters were distributed in the low abdomen, penis, scrotum and the upper part of both legs, it was reddish or alternated with white and red in the place where skin came off. In the white areas, there were lots of white spots, and become white after pressed. The penis was swollen and half erected, and there was liquids accumulated in scrotum. Diagnose: gas burning, degree II light burning area 14%, degree II serious burning area 10%, total area 24%. Medium dehydrate, infusion and blood transfusion, while recovered from dehydrate, the burnt areas were also cleaned, and applied with Hippophae seed oil. After applied for four times, the pain was relieved, and the penis was soft. The liquid stopped three days later, and the accumulated liquid in scrotum was disappeared five days later, and the burnt areas cured seven days later without any scars. Check again 90 days later, the burnt area were deposited with some pigments, and 150 days later, the pigment in the burnt area were disappeared.

Patient Meng, male, 34 years old, neck was burnt by boiling water and was swollen for about three hours. Health check: temperature 37.5°C, pulse 76 time/min. Respiration 21 times/min, blood pressure 10/6 kPa. The swollen was obvious in neck and chest with different size blisters which contained yellowish and clear liquid. In the place

Patient Zhu, female, 24 years old, burnt by gas in face and cheek for three days, and was transferred from other hospital. Health check: temperature 37.5 °C, pulse 82 time/min, respiration 20 times/min, blood pressure 18/11 kPa. There were thick ointment in the burnt area, and after took off the ointment, part of the eyebrow came off, and swollen in face was obvious. Mouth was unable to open, and liquid secret from the burnt area with odors, after cleaning the burnt area repeatedly, it was humid, bright red which disappeared when pressed, and obvious pains in the burnt area without skin. Diagnose: degree II light burning, area 5%. After applied Hippophae seed oil for six time in the burnt area, pains were disappeared, the liquid stopped secreted, and it was cured seven days later.

6. Discussion

After clinical treatment and observation on 32 cases of burn case, we demonstrated that Foutou Hippophae seed oil had functions like improve the human immunity, remove blood stasis and promote blood circulation, anti-inflammation and pain relieve, increase the tissue regeneration etc., and had magic effects in treating burns and scalds. This medicine is easy to use, and reliable in the effectiveness without any side-effect. And could widely used in clinical treatment of burns and scalds.