1. Effect of bee venom on human
2. Healing effect of bee venom

**Effect of bee venom on human**
The effect of bee venom on human is highly individual. The typical effect is the following:
Allergic reaction occurs in most of the people after 1 sting. This reaction occurs immediately or in 4-5 hours at the latest after the sting. In case of 200-300 simultaneous stings, a toxic reaction is observed in humans. 500 simultaneous stings may lead to death as a result of a respiratory system paralysis in humans.
In order to avoid or decrease considerably bee stings, the following good suggestions may help.
You can apply lavender oil, castor oil, peppermint oil on uncovered body parts or just rub peppermint leaves all over your body.
Bees are quite irritated by the strong odour of alcohol, garlic, petrol, paraffin oil, diesel. They do not like perfumes with sugary fragrance as well.
Never wave your hands and move as slowly and gracefully as you can when being close to bees. Do your best to remain calm whatever happens. Bees may feel our tension, excitement, nervousness even if we do not visibly display them. That is why it is important to keep peace of mind whatever is going on.
In case of a sting, it is very useful to do the following:
First, we have to pull the sting out of the affected spot. You can best use tweezers. Then, you can put ammonium chloride dissolved in alcohol, onion juice, garlic or tarragon or just pure alcohol on the spot. These means partly destroy the venom.
Hypersensitivity to bee venom is observed in 0.5 - 2 % of people. When working with bee venom, you must use protective breathing masks and protective eye glasses.
The bee sting is a self-defence organ. When the bee uses its sting, it dies most frequently as the bee cannot pull it out back of the stung place. What is interesting is that when the bee stings warm-blooded animals, it dies.
Whereas when the bee stings insects, it does not die. Insects die from bee venom almost immediately, while mice live for about 1-2 hours.

**Healing effect of bee venom**
Bee venom as a medicine has been used since ancient times. A medicine, containing bee venom and honey has been used for baldness treatment and hair growth stimulation in the remote past. It is a well known fact that the Russian king Ivan the Terrible and the Swedish king Charles XII have used bee venom as an ingredient for gout treatment.

Nevertheless, it should be remembered that when unskillfully and incorrectly used as a medicine, it can cause considerable damage. No one should use bee venom on human body without the respective theoretical basis, practical training and enough clinical surveillance. That may be life threatening.

Bee venom drugs affect human body by reducing acute pains and inflammation in rheumatoid arthritis and radiculitis. They are used for treatment of sciatica, inflammation of sciatic nerve, various neuroses; they have a tonic effect on cardiac muscle, reduce blood clotting and raise hemoglobin levels.

Healing effect of bee venom. (5)

1. Nervous system

- In small doses, it has a stimulating effect, and in large doses – it has a comforting effect.
- Expressed analgetic effect
- Anticonvulsant effect
- Improves mood, memory, sleep
- Reduces alcohol and nicotine dependence
- Improves blood flow in the brain

2. Cardiovascular system

- Vasodilatory effect; reduces blood pressure
- Improves heart health
- Anticoagulant effect
- Antiplatelet effect
- Increases the volume of circulating blood
- Antiarrhythmic effect
- Antianaemic effect
3. Respiratory system

- Dilates bronchi
- Expectorant effect

4. Gastrointestinal tract

- Stimulates peristalsis
- Antiulcer effect

Dried natural bee venom is used for production of pharmaceutical preparations containing bee venom. There is a special technology to purify bee venom, aimed at separation of the most aggressive components that can cause side effects, such as allergies and intoxication. This purified bee venom has considerably better effect to human body’s health. However, there is a possibility that some patients are intolerant to bee venom.

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