

the individual carries a bee-sting kit, then a subcutaneous injection of epinephrine hydrochloride (0.3 mL of a 1:1000 dilution) should be considered, with treatment repeated every 20–30 min as necessary. A tourniquet may slow the spread of venom. The patient should be transferred to a hospital emergency room where treatment for profound shock, if required, can be administered safely. Such treatment may entail the use of IV epinephrine and other vasopressors, intubation or provision of supplemental oxygen, fluid resuscitation, use of bronchodilators, and parenteral administration of antihistamines. Patients should be observed for 24 h for recurrent anaphylaxis, renal failure, or coagulopathy.

Persons with a history of allergy to insect stings should carry an anaphylaxis kit with a preloaded syringe containing epinephrine for self-administration. These patients should seek medical attention immediately after using the kit.

Prophylactic immunotherapy may greatly reduce the risk of life-threatening reactions to bee and wasp stings. Repeated injections of purified venom produce a blocking IgG antibody response to venom and reduce the incidence of recurrent anaphylaxis. Honeybee, wasp, and yellow jacket venoms are commercially available for desensitization and for skin testing. Results of skin tests and venom-specific radioallergosorbent tests (RASTs) aid in the selection of patients for immunotherapy and guide the design of such treatment.

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## ■ STINGING ANTS

Stinging ants are an important medical problem in the United States. Imported fire ants (*Solenopsis* species) infest southern states from Texas to North Carolina, with colonies now established in California, New Mexico, Arizona, and Virginia. Slight disturbances of their mound nests have provoked massive outpourings of ants and as many as 10,000 stings on a single person. Elderly and immobile persons are at high risk for attacks when fire ants invade dwellings.

Fire ants attach to skin with powerful mandibles and rotate their bodies while repeatedly injecting venom with posteriorly situated stingers. The alkaloid venom consists of cytotoxic and hemolytic