

SCORPION VENOMS AND THEIR EFFECTS

All scorpions have a tail spine, called a telson, that is modified into a stinger with venom glands. Scorpions use their sting to capture their prey and to protect themselves from creatures that are bigger than themselves. Some of the world's most dangerous scorpions live in Iraq and Kuwait. Nine species of scorpions which live in the region, including Androctonus spp., Leirus quinquestriatus, Odontobuthus doriae, Mesobuthus eupeus, Hemiscorpius lepturus, and Hottentotta spp., have venom toxic enough to kill humans. (See scorpion species photos at lower left)

How dangerous the venom is to a person depends on many factors. These factors include the health of the person, the age of the person, where on the body a person was stung, the type of scorpion, the size of the scorpion and how badly the scorpion was agitated. Not all scorpions that live in Iraq and Kuwait have venom strong enough to be dangerous to humans. Sting victims of scorpions with less toxic venom may only feel a painful, tingling, burning sensation at the sting sight, much like a bee or wasp sting.

Most of the dangerous scorpions in the region have a neurotoxic venom (a venom that affects the brain and nerves) which produces severe pain and swelling at the site of the sting. Numbness, frothing at the mouth, difficulty or inability to breathe, muscle twitching and convulsions may follow. Death is usually due to heart or breathing failure. Hemiscorpius lepturus has a highly cytotoxic (deadly to cells) venom, which can cause serious wounds and inflammations that look like third degree burns.

If stung, always seek medical attention immediately. The only effective treatment for a life-threatening scorpion sting is an antivenin designed for the specific type of scorpion. This antivenin can only be administered in a medical facility by trained medical personnel.





HABITATS

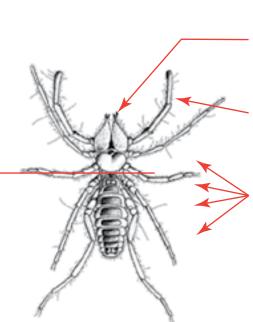
Most scorpions, tarantulas, and solpugids prefer to live in arid environments and they are most abundant in the hot desert regions of Iraq and Kuwait. However, these arachnids also live in savannas, grasslands, scrub forests, and palm groves. Scorpions are commonly encountered in buildings and ruins, under household furnishings, in cracks and crevices of walls, and under stones or in wood or debris piles. Abandoned equipment and munitions depots, infantry trenches and fighting positions may harbor large numbers of some scorpion species. Most scorpions, solpugids, and tarantulas are nocturnal. They build scrapes or burrows in the sand or soil and will invade tents and structures, crawling into or under any object that affords some protection from sunlight and hot temperatures. The larger solpugid species in Iraq and Kuwait are attracted to lights at night, and are commonly found near campfires and under streetlamps. Black widow spiders are found throughout the region. They are usually encountered in dry, secluded, dimly lit areas such as crawl spaces, cluttered areas in homes and warehouses, crumbling rock faces, wood or trash piles, and under logs and stones in forests and fields.



SOLPUGIDS

Prosoma- or cephalothorax, where the eyes, legs, jaws, and pedipalps are attached **Opisthosoma-** or abdomen, visibly

segmented, it contains the guts, heart and reproductive organs



Chelicerae- large jaws that project from the prosoma, each made up of two pieces that work like pliers

Pedipalps- leg-like projections that are sticky on the end to help catch and hold prey

4 Pairs of Legs- the back three pairs of legs have claws, and the last pair of back legs also have mallet-shaped sensory organs beneath them

