

Medically Important Spiders

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COMMON NAME	GENUS	SPECIES	VENOM CONTENTS	LOCAL SIGNS/SYMPTOMS	SYSTEMIC SIGNS/SYMPTOMS
Black Widow	<i>Lactrodectus</i>	<i>mactans</i>	Alpha-lactrotoxin (neurotoxin)	Pain, erythema, local sweating, piloerection, lymphangitis	Lactrodectism: Regional pain, severe abdominal pain, diaphoresis, headache, muscle spasms, nausea, vomiting, fever, chills, hypertension, weakness, tachycardia
Brown Recluse	<i>Loxosceles</i>	<i>reclusa</i> <i>deserta</i> <i>boneti</i> [N.America] <i>laeta</i> <i>gaucho</i> <i>intermedia</i> [S. America] <i>rufescens</i> [Europe, Israel]	Sphingomylinase D [SMD]	Cutaneous Loxoscelism: pain, erythema, edema, pruritus, vesicles, "red, white, and blue sign," eschar	Viscerocutaneous Loxocelism: fever, chills, nausea, vomiting, skin eruption, abdominal pain, joint pain, malaise, hemolysis, anemia, hematuria, low platelets, DIC
Hobo Spider	<i>Tegenaria</i>	<i>agrestis</i>	Unknown	Very painful, induration, erythema, vesicles, eschar	Severe headache, nausea, weakness, fatigue, temporary memory loss, vision impairment Rare: aplastic anemia, intractable vomiting/diarrhea
Wolf Spider	<i>Lycosa</i> <i>Pardosa</i> <i>Arctosa</i>	<i>L.antelucana</i> <i>L.punctulata</i>	Histamine	Very painful, erythema, edema, pruritus	Rare: nausea, headache, malaise
Sac Spider	<i>Cheiracanthium</i>	<i>inclusum</i> <i>mildei</i> <i>mordax</i> [USA] <i>punctorium</i> [Europe]	Lipase	Sharp pain, edema, erythema, pruritus, wheal	Rare: nausea, vomiting, headache, lymphadenitis
Jumping Spider	<i>Phidippus</i>	<i>audax</i> <i>formosus</i>	Hyaluronidase	ASx to slightly painful, erythema, edema, wheal, pruritus	None
Green Lynx Spider	<i>Peucetia</i>	<i>viridians</i>	"Proteases" (not identified)	Pain, pruritus, edema, burning, shallow ulceration	None
Fishing Spider	<i>Dolomedes</i>	<i>scriptus</i>	Neurotoxin (Ca ²⁺ channel blocker)	Pain, erythema	None
Funnel Spider	<i>Atrax</i> <i>Hadronyche</i>	40 species [Australia]	δ-Atracotoxin (neurotoxin)	Severe pain, local piloerection, muscle fasciculation	Nausea, vomiting, perioral tingling, facial muscle and tongue fasciculation Cholinergic: dyspnea, diarrhea, salivation, lacrimation Adrenergic: diaphoresis, hypertension, tachyarrhythmias, pulmonary edema



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