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The MERCK VETERINARY MANUAL

TABLE 03: Poisonous Houseplants and Ornamentals

Scientific Name (Family)	Common Name	Important Characteristics	Comments and Toxic Principles and Effects	Treatment
Agave americana (Agavaceae)	Century plant, American aloe		Sap contains calcium oxalate crystals; saponins and acrid volatile oil in leaves and seeds. On ingestion, causes dermal and oral mucosal irritation and edema.	Symptomatic
Aglaonema modestum (Araceae)	Chinese evergreen, Painted drop tongue	Central stem with solid medium green or splotched gray/green leaves; small greenish flowers.	The entire plant contains calcium oxalate crystals. On ingestion, causes oral mucosal irritation and edema.	Symptomatic
Aloe Barbadensis (vera) (Liliaceae)		Succulent herb with cluster of narrow fleshy, spinous or coarsely serrated margin leaves, with hook spines on leaf margin. Dense spiked tubular yellow flowers at end of single stalk.	anthraquinone glycosides (barbaloin, emodin) and chrysophanic acid in the latex of the leaves; higher concentrations in younger leaves. On	Symptomatic—control diarrhea and fluid loss.
Brunfelsia pauciflora var floribunda (Solanaceae)	Yesterday- today-and- tomorrow, Lady-of-the- night	Evergreen shrubs to small trees with alternate, undivided, toothless, thick, rather leathery, lustrous leaves. Winter- blooming; large showy sometimes	scopolamine, hyoscyamine) found in the flowers, leaves, bark, and roots. On ingestion, animals show tachycardia, dry mouth, dilated pupils,	In severely depressed animals, stimulants (respiratory and cardiac), along with supportive therapy recommended.

fragrant flowers, clustered or solitary at the branch ends, with 5-lobed tubular calyx, 5 petals, and funnel-shaped corolla. Fruits berry-like capsules.

(deep sedation). Not reported to cause death.

Caladium spp (Araceae)



Caladium, Fancy leaf caladium, Angel wings

Perennial herbs with simple, heartshaped, thin, highlighted veins, variegated green spathe; grown from rhizomes.

Calcium oxalate crystals and unknowns found in all parts, especially rhizomes. Ingestion causes immediate intense pain, local irritation to leaves; yellow- mucous membranes, excess salivation, swollen tongue and pharynx, diarrhea, and dyspnea. Pets' access

> to plant associated with rhizomes brought indoors for winter

Symptomatic

Cannabis sativa (Cannabaceae)



Mary Jane, Marijuana, Grass, Pot, Hashish, Indian hemp, Reefer, Weed Annual herb, grown from seeds, ≥6 ft tall; Leaves opposite or alternate, palmately 5-7 linear, coarsely dentate leaflets; small green flowers along entire length (female) of branch; fruits achenes. Grown for its fiber; legally cultivated under federal license only.

storage. Leaves, stems, and flower buds of mature from source. plants contain tetrahydrocannabinol (THC) and related compounds. THC concentrations vary compound with with plant variety (1-6%), parts (female flowers have highest concentrations), processing (extracts have as much as at tip (male) or 28%), sex, and growing conditions. Lethal dose for dogs >3.0 g/kg body wt. Pets' exposure usually from accidental access best. See also to this plant being used for in-home treatment of cancer patient or for illegal recreational uses by owner. Pets (dogs primarily) show ataxia, vomiting, mydriasis,

Remove animal Effectiveness of emetics limited by antiemetic effect of THC. Oral tannic acid, activated charcoal followed by saline cathartics have been recommended. Stimulants (cardiac and respiratory) along with supportive therapy essential in severely depressed animals. Recovery slow at Marijuana (Cannabis).

prolonged depression, tachycardia or bradycardia, salivation, hyperexcitability, tremors, and hypothermia. Death results when vital CNS regulatory centers are severely depressed.

Capsicum annuum (Solanaceae)

Cherry pepper, Chili pepper, Ornamental pepper, Capsicum

Annual shrub; branched, erect stem; dark, glossy, ovate, entire white flowers. Fruits—shiny berries of various colors, shapes, sizes.

Capsaicinoids (capsaicin) in the mature fruits, solanine water irrigation, and scopoletin in foliage; irritating to margin leaves; the GI tract, with vomiting and diarrhea. anesthetics. Not likely to be lethal.

Symptomatic; irritation relief—cool topical or oral mineral or vegetable oil. Rarely topical

Chlorophytum spp (Liliaceae)



Spider plant, St. Bernard's lily, Airplane plant

Rhizomatous herbs with leaves slightly glossy, succulent, narrow, straplike, greensome with a broad, yellow or white band down the middle; long, cream, hanging stems seen in cats within with small, white flowers developing into not reported. plantlets. Often grown in hanging baskets.

More commonly grown Symptomatic today for its filtering ability. Pet animals (especially cats) reach these plants either by climbing or when plantlets fall from mature stems. Unknown toxin(s) found in leaves and plantlets. Vomiting, salivation, retching, and transient anorexia

hours of ingestion. Deaths and diarrhea

Colchicum autumnale (Liliaceae, Colchicaceae)



Autumn crocus, Crocus, Fall crocus, Meadow saffron, Wonder bulb

Popular house or yard plant, ovoid underground corm covered with brown membrane or scales. Leaves large, lanceolate, basal, ovate, smooth,

Colchicine and related alkaloids found perennial herb, throughout plant. These alkaloids are heat stable and not affected by drying. Colchicine is used experimentally in genetic investigations, and medically in the treatment of gout in humans. It is cumulative and slowly Analgesics and

Prolonged course due to slow excretion of colchicine. Gastric lavage; supportive care for dehydration and electrolyte losses (fluid therapy); CNS, circulatory, and respiratory disturbances.

in spring and flowering. **Flowers** tubular, solitary, pale appearing in fall; fruit a 3celled ovoid capsule with numerous seeds.

ribbed, appear excreted. Milk of lactating animals is a die back before major excretory pathway. Observed clinical signs are thirst, difficult swallowing, abdominal pain, purple or white profuse vomiting and diarrhea, weakness, and shock within hours of ingestion. Death from respiratory

failure.

atropine recommended for abdominal pain and diarrhea.

Convallaria majalis (Liliaceae)





Lily-of-thelily, Mayflower slender

Herbaceous valley, Conval perennial from (convallarin, running leafless, bearing a 1sided raceme of nodding white, shaped seldom formed.

Cardiac glycosides convallamarin, convallatoxin), irritant at correcting rhizome; stem saponins found in leaves, flowers, rhizome, and water in which flowers have been kept. Variable latent period aromatic, bell- depending on dose. GI hyperkalemia (IV signs (vomiting, flowers; leaves trembling, abdominal 2 or 3, basal to pain, diarrhea), 1 ft long. Fruit progressive cardiac a red berry but irregularities (irregular monitoring heart beats, A-V block), and death. Hyperkalemia in acute cases. Gastroenteritis, petechial hemorrhages throughout.

Aimed at gut decontamination (gastric lavage) and bradycardia (atropine), conduction defects (phenytoin), and electrolyte imbalance such as electrolytes). Electrocardiographic and serum potassium necessary.

Cyclamen spp (Primulaceae)



Cyclamen, Snowbread, Shooting star

Herbaceous plants, grown from rhizomes or tubers. Petioled, heart-shaped, deep green intermixed with lighter green coloration (same leaf), serrated leaves; stems upright, with a are indoors). terminal pink or white butterfly-like flower.

Triterpinoid saponins found in tuberous rhizomes cause GI irritation, thereby increasing systemic absorption and severe toxicity. Anorexia, diarrhea, convulsions, and paralysis are observed clinical signs. Pets have greater access to these plants over winter months (both pets and plants

Symptomatic

Dieffenbachia spp Dumbcane (Araceae)





Fairly tall, erect, unbranched, fleshy plant; stem girdled leaves large, sheath-like on blade.

Calcium oxalate crystals and unknown toxic proteins (possibly asparagine or protoanemonin) in all with leaf scars; parts, including sap. On ingestion, thickly veined, immediate intense pain, burning, and petioles, white inflammation of mouth or yellow spots and throat, anorexia, vomiting, and possibly diarrhea, with tongue extended, head shaking, excessive salivation, and dyspnea. Immediate pain limits amount consumed. Death infrequent.

Symptomatic

Digitalis purpurea Foxglove (Scrophulariacae)





Erect biennial with simple, petioled (long on lower, short saponins, and or sessile on upper), alternate, ovate to lanceolate pink, red, white, or yellow tubular flowers (with spots) in terminal racemes; fruit is a capsule with many

Cardiac glycosides (digitoxin, digitalin, digoxin, and others), alkaloids found throughout plant. Potency not affected toothed, hairy, by drying. Generally, acute abdominal pain, vomiting, bloody leaves. Purple, diarrhea, frequent urination, irregular slow pulse, tremors, convulsions, and rarely

death.

Symptomatic

Dracaena spp (Agavaceae)







like house plant with thin,

seeds.

lance-shaped, variegated, alternate, nonpetioled leaves. Yellow, red, or green stripes along leaf margins in some species. Lower leaves

Robust palm-

Alkaloids, saponins, and resin found in leaves. Vomiting and severe diarrhea indicative of GI irritation expected. Clinical cases have not been reported.

Symptomatic, to correct fluid and electrolyte imbalance.

Dragon tree

are lost, leaf scars remain and clearly demarcated, terminal leaves retained as plant matures.

Euphorbia pulcherrima (Euphorbiaceae)





Poinsettia, Christmas flower, Christmas star sap

Perennial shrub with milky, white throughout. Leaves alternate, petioled, distinctly veined, entire or lobed, and conspicuously bright red, pink, or white (terminal leaves), lower leaves remain green. Flowers small and inconspicuous.

Milky sap contains unknown toxic principle(s); irritates mucous membranes and causes excessive salivation and vomiting but not death. Toxicity (hybrid species) not supported experimentally. Toxic diterpenes (ingenol derivatives) found in other Euphorbia spp have not been found in this species.

Symptomatic; gastric lavage, activated charcoal, and saline cathartics should be considered.

Hyacinthus spp (Liliaceae)



Hyacinths

Garden ornamentals bulbs (close onion bulbs) and flower in early spring. Bulbs harvested and stored in fall for replanting in spring.

Calcium oxalate crystals and alkaloids that grow from (their toxic potential yet to be defined) resemblance to found in bulbs. After ingestion of toxic dose (bulbs), vomiting, diarrhea, and rare deaths reported. Bulbs in storage may be accessible to pets.

Symptomatic

Ilex aquifolium (Aquifoliaceae)



English holly, European holly

Evergreen shrub with leaves leathery, glossy upper surface, spiny toothed, alternate, and red to yellow berries with many seeds and aromatic taste.

Saponins; an alkaloid (theobromine), triterpene compounds, and unknown compounds with digitalis-like cardiotonic activity have been found in petioled; fruits leaves, fruits, and seeds. Abdominal

best)

Symptomatic (at

Kalanchoe spp

Kalanchoe,

Winter

berries. Death rare. Cardiac glycosides

pain, vomiting, and diarrhea seen after

ingestion of ≥2

Symptomatic;

(Crassulaceae)



Air-plant, Cathedralbells

flowering, herbaceous, succulent, nonhardy annuals or perennials. Fleshy, serrate or crenate, opposite, petioled leaves. Bright red, orange, or pink flowers in umbel. Stems become woody and untidy

found in leaves. Within atropine has been hours of ingesting toxic dose, depression, rapid breathing, teeth grinding, ataxia, paralysis, opisthotonos (rabbit), and death (rat).

effective in rabbits.

Lilium longiflorum; L tigrinum (Liliaceae)

Easter lily, Trumpet lily Plants grown from bulbs; leaves alternate or whorled, sessile, linear or lanceolate blades; large showy funnelform flowers; with numerous, flat toxicity. seeds.

with age.

Not reported toxic to other species. Vomiting, depression, loss of appetite within 12 hr post-ingestion. Elevated creatinine, Fruits capsules BUN, phosphorus, and potassium indicate

Unknown toxin found

throughout plants.

Emetics, activated charcoal, saline Renal failure in cats 2- cathartic, and 4 days post-ingestion. nursing care—as for renal failure—within hours of ingestion. Delayed treatment is associated with poor prognosis.

Narcissus spp (Amaryllidaceae)



Daffodils

Same as for Hyacinthus, above

> symptomatic and supportive. See also Avocado.





Persea americana Avocado pear, Trees or Alligator pear

shrubs with long branches arising from widely cultivated for commonly cultivated races (Mexican, Guatemalan, and West entire, alternate, veined, dark-

All above-ground parts Primarily (leaves in particular) reported toxic to cattle, horses, goats, terminal buds, rabbits, canaries, ostriches, and fish. Responsible toxin a its fruits. Three monoglyceride. Oil found in fruits used for cosmetic purposes. Toxicity associated with noninfectious agalactia (cattle, rabbits, goats), Indies). Leaves pulmonary congestion, ovate-elliptical, cardiac arrhythmia, submandibular edema, acute death (rabbits, cage birds, goats),

green above and paler below, papery to the feel. Flowers axillary or terminal pyriform in shape with thick, leathery, glossy dark green skin over limegreen to yellow flesh and a smooth, ovoid, solitary seed.

respiratory distress, generalized congestion, subcutaneous edema, and hydropericardium inconspicuous, (suggestive of cardiac yellow-green in failure [caged birds]). In caged birds, clinical signs may be seen panicles; fruit within 24 hr (usually berry, ovoid to after ≥12 hr), with death 1-2 days after exposure.

Philodendron spp Philodendron (Araceae)









with aerial roots: leaves (major houseplant) are large, unlobed or and heartflowering.

Climbing vines Calcium oxalate crystals and unidentified proteins throughout entire attraction as a plant. On ingestion, immediate pain, local irritation to mucous membranes, excessive pinnately lobed salivation, edematous tongue and pharynx, shaped; rarely dyspnea, and renal failure. Excitability, nervous spasms, convulsions, and occasional encephalitis reported in cats.

Symptomatic

Phoradendron flavescens (Viscaceae)





Perennial parasitic shrub that grows on deciduous trees. Evergreen, leaves on round, highly branched, green stem. White berries with single seed. Brought ingesting toxic dose. into homes during

Christmas season.

Amines (βphenylethylamine, acetylcholine, choline, and tyramine), toxic proteins (viscotoxins), and unknowns in all ovoid, opposite parts. Vomiting, profuse diarrhea, dilated pupils, rapid labored breathing, shock, and death from cardiovascular collapse within hours of

Symptomatic

Mistletoe

Rhododendron spp (Ericaceae)





Azalea, Rhododendron deciduous

shrub with simple, alternate, entire leaves; funnel-shaped flowers in terminal umbel-like clusters or fruits are capsules with many seeds.

Evergreen or

Andromedotoxins (grayanotoxins) found in all parts, including pollen and nectar. Within hours of ingestion of toxic dose and antibiotics to (1 g/kg), salivation, lacrimation, vomiting, diarrhea, dyspnea, muscle weakness, convulsions, coma, solitary and of and death. Signs may various colors; last several days, but toxin is not cumulative.

Symptomatic; gastric lavage, activated charcoal, saline cathartics, calcium injection, control possible pneumonia suggested.

Sansevieria spp (Agavaceae)



Sansevieria, Snake plant, Mother-inlaw's tongue Hardy, succulent houseplant. Leaves erect, elongate, flat or cylindrical, dark green with or without a yellow stripe along the margins, and horizontal gray bands throughout; many yellow star-like flowers on tall central raceme or spike.

Hemolytic saponin and Symptomatic; fluids organic acids found in leaves and flowers. Vomiting, salivation, diarrhea, and lanceolate, and hemolysis related to GI activity of these

compounds.

and electrolytes may be necessary.

Schefflera spp (Araliaceae)



Schefflera, Umbrella tree Fast-growing glossy, palmately compound leaves that hang and spread, appearing like an umbrella. Depending on the species, leaflets increase with plant maturity and become more compact;

veins

Oxalate found in the evergreen with leaves. Mucous membrane irritation, salivation, anorexia, vomiting, and if severe enough, diarrhea.

Symptomatic

Solanum pseudocapsicum (Solanaceae)



Jerusalem cherry

Shrub with simple, lanceolate, entire or slightly serrated leaves. Small star-shaped white flowers. Ripe fruits are red, shiny berries with many white seeds.

pronounced; margins entire to slightly crenate.

> Solanocapsine and related alkaloids found gastric lavage, in leaves and fruits. Anorexia, abdominal pain, vomiting, hemorrhagic diarrhea, salivation, progressive suggested. weakness or paralysis, dyspnea, bradycardia, circulatory collapse, dilated pupils, and convulsions reported.

Symptomatic; activated charcoal, electrolytes and fluids, and anticonvulsants

Taxus spp (Taxaceae)



Yew

or small erect shrub with alternate, needle-like, glossy (upper surface), dull leaves. Seeds (generally 1 per fruit), green, nearly enclosed in a cup-shaped, fleshy, red covering (aril). nonspecific

Evergreen tree The alkaloids (taxines and ephedrine), cyanide, and volatile oils found throughout plant except the fleshy may be helpful. aril. Nervousness, trembling, ataxia, (lower surface) dyspnea, collapse; bradycardia progressing to cardiac standstill and death black-brown or without struggle. Empty right side of heart; dark, tarry blood in left side of heart; limited

postmortem lesions.

Symptomatic at best; usually futile once clinical signs appear. Atropine

Zamia pumila (Zamiaceae)



Coontie, Florida arrowroot, Seminole bread, Cycad

with thick underground fleshy, tuberous stem from which grow few pinnately compound, palm-like leaves ~2 ft long; cones containing inch-long, shiny, orangered seeds.

Palm-like plant The glucoside cycasin and its aglycone methylazoxymethanol (a colon-specific carcinogen in mice) found in leaves, seeds, and stem. Ingestion associated with hepatic and GI disturbances and ataxia. Clinical signs are persistent vomiting, diarrhea, abdominal pain, depression, and muscular paralysis. A neurologic condition characterized by hindleg paralysis

No specific therapy; IV fluids and symptomatic care recommended.

(hyperextension followed by incomplete extension) has been reported in cattle.

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