

Labrighli, K., Moujahdi, C., Rhazi, L. & El Oualidi, J.: Raising awareness of toxic spontaneous plants in Morocco: a comprehensive checklists. — *Fl. Medit.* 34: 143-158. 2024. — ISSN: 1120-4052 printed, 2240-4538 online. Electronic Supplementary File 1. <https://doi.org/10.7320/FIMedit34.143.1>
Version of Record published online on 23 September 2024

Electronic Supplementary File 1

Table 1. List of spontaneous toxic plants in Morocco

Flowering: Sm: Summer; Sp: Spring; W: Winter; A: Autumn; **Life form:** Ph: Phanerophyte; Nan: Nanophanerophyte; Ch: Chamephyte; Ch(Pa): Chamephyte Parasite; Hem: Hemicryptophyte; Th: Therophyte; B. Th: Biennial therophyte; G: Geophyte; T. G: Tuberous Geophyte; B. Geo: Bulb geophyte. **Conservation state:** LC: Least Concern (low risk of extinction); NA: Not Applicable; VU: Vulnerable; NT: Near Threatened; DD: Data Deficient; CR: Critically Endangered; EN: Endangered; RE: Regionally Extinct. **Distribution in the geographical divisions of Morocco:** Ms: Morocco Saharan; As: Saharan Atlas; AA: Anti Atlas; HA: High Atlas; MA: Middle Atlas; Mam: Middle Atlantic Morocco; Man: North Atlantic Morocco; Op: Eastern Morocco plateaus; Om: Mountains of eastern Morocco; LM: Mediterranean coastline; R: Rif. **Degree of molecule toxicity:** +++: Highly toxic; ++: Moderately toxic; +: Slightly toxic. **Toxic part:** WP: Whole plant; S: Seed; R: Root; AP: Ariel parts; FR: Fruit; L: Leaf; LT: Latex; FL: Flower; O/E. O: Oil/Essential Oil; B: Bulb. **Endemism:** *: endemic to Morocco; *I: endemic to Morocco and the Iberian Peninsula; *A: Endemic to Morocco and Algeria; *IA: Endemic to Morocco Algeria and the Iberian Peninsula; *IC: Endemic to Morocco, the Iberian Peninsula and the Canaries, *AM: Endemic to Morocco, Algeria and Mauritania, *M: Endemic to Morocco and Mauritania.

Taxonomy				Common names		Conservation status	Geographical distribution	Symptoms of poisoning	Toxic molecules	Degree of molecule toxicity	Toxic part
Family & Scientific name	Synonyms	Life form	Flowering	English/ French names	Arabic/Amazigh names						
<i>Amaranthaceae</i> <i>Hammada articulata</i> (Moq.) O. Bolòs & Vigo	<i>Hammada scoparia</i> (Pomel) Iljin	Ch	A	Saligne à balai	رمت؛ عساي	LC	Ms; As; AA; HA; Mam	Nervous disorders, leg tremors, significant overall weakness.	Anabasine ; Aphyllidine;lupinin	+++	AP
<i>Apiaceae</i> * <i>Anethum foeniculum</i> L.	<i>Foeniculum vulgare</i> Mill.	Cha	Sp; Sm	Fennel/ Fenouil sauvage	نافع، شمار، تامساوت، لبسباس	LC	As; AA; HA; MA; Mam; Man; Op; Om; LM; R	Oil causes hallucinations, general excitement which can lead to epileptic seizures and convulsions.	Anethol	++	O/E. O
<i>Apiaceae</i> * <i>Bupleurum canescens</i> Schousb.	-	Nan	Sp	-	لحيارة	VU	Ms; AA; Mam	Severe diarrhea and nervous disorders, which can quickly lead to death in severe cases.	Saikosaponin; Bupleurotoxin	+++	WP
<i>Apiaceae</i> * <i>Bupleurum dumosum</i> Coss. & Balansa	-	Ch	Sp	-	لحيارة	DD	Ms; AA; HA; Mam;	The same symptoms as <i>Bupleurum canescens</i> Schousb.	Saikosaponin; Bupleurotoxin	+++	WP

<i>Apiaceae</i> <i>Conium maculatum</i> L.	<i>Chaerophyllum arborescens</i> L.	B. Th	Sp	Poison hemlock/ Grande ciguë	، سيكران، شوكران باريوش ، جيري، زياتا	LC	HA; MA; Mam; Man; Op; Om; LM; R	Anesthesia with cold throat, slowed breathing, vomiting, convulsions, and coma. Death results from respiratory muscle paralysis, causing asphyxia.	Coniine; gamma-coniceine	+++	WP
<i>Apiaceae</i> <i>Ferula communis</i> L.	<i>Ferula ferulago</i> L.	G	Sp; Sm	Giant Fennel / Faux-fenouil	لكخة ؛ فاسوخ؛ توفالت؛ لبوبال ؛ أنلي	LC	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	Weakness, paleness, breathlessness, diarrhea, ecchymotic patches. Progression to stupor, difficulty walking, bloody serous exudates on legs/feet. Death around 8 days, especially in severely affected or weakened individuals.	Ferulenol; Ferprénine	+++	L; AP
<i>Apiaceae</i> <i>Oenanthe crocata</i> L.	<i>Oenanthe apiifolia</i> Brot.	Hem	Sp	Oenanthe s afranée	-	LC	HA; Man; LM; R	Vomiting, loss of consciousness, burning sensation in the mouth and nose, dizziness, feeling cold, speech impairment, colic, clonic and tonic convulsions, mydriasis (dilated pupils), slowed heartbeat. Death.	Cicutine ; œnanthotoxine	++	R; S; FL
<i>Apiaceae</i> <i>Oenanthe fistulosa</i> L.	<i>Oenanthe filipendula</i> Dumot	G	Sp	Oenanthe fistuleuse	-	VU	Man; R	The same symptoms as <i>Oenanthe crocata</i> L.	Cicutine ; œnanthotoxine	++	R; S; FL
<i>Apiaceae</i> <i>Thapsia villosa</i> L.	<i>Thapsia microcarpa</i> Pomel	G	Sp	Villous deadly carrot/ Thapsia	ديراس ؛ روايا أباغور؛ بونفا ا	LC	HA; MA; Mam; Man; Om; LM; R	Intoxication primarily manifests as vomiting and severe diarrhea with inflammation of the digestive mucous membranes. On the skin, the plant's latex and root cause the appearance of highly inflamed pustules. Prolonged contact can lead to deep ulcerations.	β-Thuyone ; Chamazulene	+	R; LT
<i>Apocynaceae</i> <i>Calotropis procera</i> (Aiton) W.T. Aiton	<i>Asclepias procera</i> Aiton	Nan	Sm	Apple of sodom/ Pomme de Sodome	تاورزا ، تاورجا، تورزا	NT	Ms; AA	Skin contacts cause severe inflammation and blistering; eye contact can lead to blindness. Internally, ingestion results in vomiting and serious inflammation of the digestive system, with the potential for rapid death without loss of consciousness.	Calotropine ; Gigantine	+++	LT
<i>Apocynaceae</i> <i>Nerium oleander</i> L.	<i>Nerium indicum</i> Mill.	Nan	Sp; Sm	Rose Bay/ Laurier rose	دفلة ؛ أليي	LC	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	In humans: vomiting, fainting, aphonia, convulsions, diarrhea, mydriasis, weak and intermittent pulse, sometimes deep sleep, chills, hyperthermia, then death due to cardiac arrest.	Oleandrine ; Neriine ; Digitaline ; Folinerine	+++	R; S; L; FR
<i>Araceae</i> <i>Arisarum simorrhinum</i> Durieu	<i>Arisarum vulgare</i> subsp. <i>Simorrhinum</i> (Durieu) Maire & Weiller	G	W; Sp	Friar's Cowl/ Gouet à capuchon	إرني ؛ يرني؛ أبوق؛ أقرنوش	LC	AA; HA; MA; Mam; Man; Om; LM; R	The roots and seeds are the most dangerous causing symptoms like colic, vomiting, bowel movements. Limbs become cold, loss of consciousness, and death generally occurs due to asphyxiation.	R-irniine; Pyrrolidine; Aroïne	++	R; S
<i>Araceae</i> <i>Arisarum vulgare</i> O. Targ. Tozz.	<i>Arisarum vulgare</i> subsp. <i>Exsertum</i> Maire & Weille	B G	W; Sp	Friar's cowl/ Gouet à capuchon	إرني؛ يرني؛ أبوق؛ أقرنوش ؛ لوف؛ تيوغدا	LC	AA; HA; MA; Mam; Man; Om; LM; R	Colic, vomiting, bowel movements. Limbs become cold, loss of consciousness, and death generally occurs due to asphyxiation.	R-irniine; Pyrrolidine; Aroïne	++	WP
<i>Araceae</i> <i>Arum hygrophilum</i> Boiss.	<i>Arum hygrophilum</i> subsp. <i>Maurum</i> Braun-Blanq. & Maire	T G	Sp	Water arum/ Gouet macule	أيقوق ، بقوق ، يرني أقرنوس	VU	MA; Mam; Man; Op	Colic, vomiting, bowel movements, limbs become cold, dilated pupils, loss of consciousness, and death by asphyxiation.	Calcium oxalate Conicine	++	WP
<i>Araceae</i> <i>Arum italicum</i> Mill.	<i>Arum italicum</i> Mill. Subsp. <i>Italicum</i>	TG	Sp	Italian Arum/ Gouet d'Italie	أيقوق ، بقوق ، يرني أقرنوس	LC	HA; MA; Mam; Man; Op; Om; LM; R	Nausea, vomiting, diarrhea, and pain may come with mouth and throat burns, skin issues, and in severe cases, numbness and loss of consciousness leading to death from asphyxiation.	Calcium oxalate Conicine	++	WP
<i>Araliaceae</i> <i>Hedera helix</i> L.	-	Ph	A	English ivy/ Lierre grimant	لواية ؛ لالب؛ إديرا	LC	AA; HA; MA; Mam	The berries have caused numerous accidents, especially in children. Poisoning is characterized by vomiting, diarrhea, a staggering gait reminiscent of drunkenness, excitement, and coma.	Hedrine	++	FR

<i>Aristolochiaceae</i> * <i>Aristolochia baetica</i> L.	<i>Aristolochia glauca</i> Desf.	Ph	W; Sp	Pipe vine/ Aristolochie	برزطم؛ برشتوم؛ إريفي، أريفيس، شجرة روستوم	LC	AA; HA; Mam; Man; Om; LM; R	Renal irritation, necrosis of the epithelial elements of the kidneys, hematuria, and limb paralysis.	Aristolochic acid A	++	R
<i>Aristolochiaceae</i> <i>Aristolochia paucinervis</i> Pomel	<i>Aristolochia longa</i> subsp. <i>paucinervis</i> (Pomel) Batt.	G	Sp	Aristolochie	برزطم؛ برشتوم؛ إريفي أريفيس، شجرة روستوم	LC	AA; HA; MA; Mam; Man; Om; LM; R	Renal irritation, necrosis of renal epithelial elements, hematuria, limb paralysis.	Aristolochic acid	++	R
<i>Asparagaceae</i> * <i>A Battandiera amoena</i> (Batt.) Maire	<i>Ornithogalum amoenum</i> Batt.	B. G	W; Sp	Ornithogale	صريح، بصل الديب	NT	Ms; Mam	Chronic diarrhea, stomach ulcers, and congestion of the liver, kidneys, and lungs can often lead to death.	Colchicine	+++	B
<i>Asparagaceae</i> * <i>Drimia maritima</i> (L.) Stearn	<i>Urginea maritima</i> (L.) Baker	B G	Sm; A	Sea squill / Scille maritime	عصل؛ بصل الفار؛ لكفيل؛ أليات؛ كديو	LC	MS; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	Low doses: elevated blood pressure, slowed heartbeat, increased fluid secretion. High doses: twitching, accelerated breathing, nervous disorders, slowed heart rate, colic, decreased body temperature, comatose states, potential death from cardiac arrest.	Scilliroside; Aglycone; Bufadienolide	+++	L; B
<i>Asteraceae</i> * <i>Anacyclus pyrethrum</i> (L.) Link	<i>Anthemis pyrethrum</i> L.	Hem	Sp; Sm	Pellitory/ Pyrèthre d'Afrique	تقاندبشت، أقرقارها، عود العطاس	VU	As, AA; HA; MA; Man; Op; Om; R	Severe inflammation of the digestive tract, respiratory tract or skin. Ringing in the ears, paleness, epigastric pain, nausea, sometimes even loss of consciousness.	Pyrethrin; Anacycline	++	R
<i>Asteraceae</i> <i>Artemisia absinthium</i> L.	<i>Artemisia rehan</i> Chiov.	Nan	Sm; A	Absinth wormwood/ Absinthe	شيبا، شيبية العجوز شجرة مريم، شيبية الشيخ	EN	MA; Op	The toxic compound levels in absinthe vary with harvest time, climate, and drying conditions. Higher concentrations can lead to symptoms like dizziness, weakness, leg tremors, and increased urination.	A et β -Thujone	++	AP
<i>Asteraceae</i> * <i>Artemisia ifranensis</i> Didier	<i>Seriphidium ifranensis</i> (J. Didier) Dobignard	Ch	Sm; A	Armoise d'Ifrane	شيخ خورسماني، شيخ دويدا، إفسي، إزري	VU	HA; MA;	Neurotoxicity can cause symptoms such as vertigo, weakness, leg tremors, and urge to urinate. Furthermore, convulsions can occur in infants, pregnant women, and children.	β -Thujone	++	AP
<i>Asteraceae</i> * <i>Artemisia mesatlantica</i> Maire	-	Ch	Sm; A	Armoise	شيخ؛ إفسي؛ فسي	LC	AA; HA; MA	The same symptoms as <i>Artemisia ifranensis</i> Didier	β -Thujone	++	AP
<i>Asteraceae</i> <i>Carlina gummifera</i> (L.) Less.	<i>Atractylis gummifera</i> L.	Hem	Sp; Sm	Chardon à glu	داد، أخفيون، جرنيز سواك العلك	LC	HA; MA; Mam; Man; Om; LM; R	Digestive issues (nausea, vomiting, diarrhea, abdominal pain) and hypoglycemia lead to neurological disturbances. Severe cases include respiratory complications, cardiovascular issues, hepato-renal problems, and hemorrhagic symptoms. Death usually occurs within 4 to 6 days after ingestion.	Atractyliside; Carboxyatractyl oside	+++	WP
<i>Asteraceae</i> <i>Jacobaea vulgaris</i> Gaertn.	<i>Senecio jacobaea</i> L.	Hem	Sp	Common ragwort/ Seneçon	أشبارتو	NT	Man	The symptoms are not clearly determined, but it is evident that the Groundsels cause hepatotoxicity, particularly acute necrosis in the liver, chronic parenchymal megalocytosis, and genotoxicity.	Senecoinine; Retrorsine; Seneciphylline	+++	AP
<i>Asteraceae</i> * <i>Kleinia anteupehorbium</i> (L.) Haw.	<i>Senecio anteupehorbium</i> (L.) Sch. Bip.	Nan	Sp	Swizzle Sticks/ Seneçon	أشبارتو	NT	Ms; AA; HA; Mam; Op; Om	Hepatotoxicity, including acute liver necrosis, chronic megalocytosis, and genotoxicity, though specific symptoms are not well-defined.	Senecoinine; Retrorsine; Seneciphylline	+++	AP
<i>Asteraceae</i> * <i>Lactuca virosa</i> L.	<i>Lactuca patersonii</i> Menezes	Th	Sm; A	Spontaneous lettuce/ Laitue vireuse	لبينة؛ دفلة صحراوية	LC	AA; HA; MA; Man; R	Chest pain, rapid breathing, tinnitus, dizziness, lethargy, enlarged pupils, sweating, muscle spasms, limb paralysis. Severe cases may lead to deep unconsciousness and cardiac arrest.	Lactucine; Hyoscyamine; Lactucopigrin	+++	LT

<i>Asteraceae</i> *AM <i>Perralderia coronopifolia</i> Coss.	<i>Grantia coronopifolia</i> (Coss.) Benth.	Ch	Sp	-	لوغان؛ حمر الراس	LC	Ms; As; AA; HA; Mam; LM; R	The primary indications of intoxication are rapid breathing and overall exhaustion. Fatality frequently arises within a few hours and at maximum within 48 hours.	Helenalin; Tenuiline; Coronopiline	++	AP
<i>Asteraceae</i> <i>Senecio leucanthemifolius</i> Poir.	<i>Senecio humilis</i> Desf.	Th	W; Sp	Coastal Ragwort/ Seneçon	لعطييشة	LC	HA; MA; Mam; Man; Op; Om; LM; R	The symptoms are not well determined, but it is evident that Senecios cause hepatotoxicity, notably acute liver necrosis, chronic parenchymal megalocytosis, and also genotoxicity.	Senecoinine ; Retrorsine ; Seneciphylline	++	AP
<i>Asteraceae</i> <i>Senecio vulgaris</i> L.	<i>Senecio vulgari-humilis</i> Batt. & Trab.	Th	A ; W ; Sp ; Sm	Groundsel/ Seneçon	شبية سلما؛ إيدو	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	The same symptoms as <i>Senecio leucanthemifolius</i> Poir.	Senecoinine ; Retrorsine ; Seneciphylline	++	AP
<i>Boraginaceae</i> <i>Cynoglossum maghrebicum</i> Sutorý	<i>Cynoglossum montanum</i> var. <i>maroccanum</i> Brand	Th	Sm	Cynoglosse officinal	ودن الثعلب، لوسيق،	LC	AA ; HA ; MA ; Op ; Om ; LM ; R	The poisoning is manifested by a kind of drunkenness accompanied by dizziness	Heliosupine ; Lasiocarpine ; Heliotrine ; Supinine	+++	WP
<i>Boraginaceae</i> *Heliotropium bacciferum Forssk.	<i>Heliotropium undulatum</i> var. <i>nubicum</i> (Bunge) Maire	Ch	W; Sp	Seaside Heliotrope/ Héliotrope	خونيرة رطبة؛ تاحنا؛	CR	Ms; AA; Mam	Intoxication presents itself as a form of inebriation, accompanied by vertigo.	Heliosupine, Lasiocarpine; Heliotrine; Supinine	+++	W P
<i>Brassicaceae</i> *A <i>Diplotaxis tenuisiliqua</i> Delile	<i>Brassica amplexicaulis</i> var. <i>occidentalis</i> Pau	Th	W; Sp	Perennial wall-rocket/	لكركاز	LC	AA; HA; Mam; Man;	Diplotaxes can result in fatal poisoning, particularly during the spring season. Death typically ensues within 6 to 24 hours.	Loliolide; Sinigroside	+++	S
<i>Brassicaceae</i> <i>Isatis tinctoria</i> L.	<i>Isatis lusitanica</i> Desf.	Hem	Sp; Sm	Wood/ Pastel	مسوسة	LC	AA; HA; MA	Consumption of the plant causes vomiting, diarrhea, and kidney colic in humans.	Indigo	++	WP
<i>Buxaceae</i> <i>Buxus sempervirens</i> L.	<i>Buxus sempervirens</i> var. <i>angustifolia</i> Loudon	Nan	Sm	American Boxwood / Buis vert	باقس، إبيقيس، أزازير	VU	HA	Low dose: vomiting, diarrhea. Medium dose: neurological symptoms, muscle aches, reversible comas. High dose: death with intense intestinal pain, convulsions, breathing difficulties.	Buxine ; Parabuxine	+++	L
<i>Caprifoliaceae</i> <i>Sambucus ebulus</i> L.	<i>Sambucus ebulus</i> subsp. <i>africana</i> (Engl.) Bolli	G	Sp; Sm	Dwarf elder/ Hièble	خمان صغير؛ خلوان؛ أريوري	LC	HA; MA; Mam; R	The symptoms of poisoning consist of vomiting, painful condition of the oral mucosa, sometimes bloody diarrhea, abdominal pain, cyanosis, dizziness, headache, and mydriasis. Death may occur.	Ricin; Ebulin	+++	WP
<i>Caryophyllaceae</i> <i>Agrostemma githago</i> L.	<i>Lychnis githago</i> (L.) Scop.	Th	Sp; Sm	Common corn-cockle/ Nielle des blès	حب البركة	LC	HA; MA; Mam; Man; Om; LM; R	A sensation of throat clearing, nausea, dyspnea, bronchitis.	Sapotoxine	++	R
<i>Chenopodiaceae</i> <i>Chenopodium vulvaria</i> L.	<i>Chenopodium olidum</i> Curtis	Th	Sp; Sm	Stinking goosefoot/ Chénopode ; Anserine	برمرم، رمرم	LC	HA; MA; Mam; Man; Op; LM; R	Dizziness, mydriasis (pupil dilation), and jaundice.	Ascaridole; Chenopodine; Trimethylamine	+++	S; L
<i>Chenopodiaceae</i> <i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants	<i>Chenopodium ambrosioides</i> L.	Th	Sp; Sm; A	Mexican-tea/ Thé du Mexique	مخينة	LC	Ms; HA; Mam; Man; Op; LM; R	Essential oil intoxication: central nervous system disruption (dizziness, headache, paralysis), gastrointestinal issues, bleeding, organ damage, potential death, especially in children.	Ascaridole; p- cymene	+++	L; O/E. O
<i>Cistaceae</i> *I <i>Cistus ladanifer</i> L.	-	Nan	Sp	Gum rockrose/ Ciste à gomme	عين إف؛ بو زغزاو؛ فتاخ؛ لدان؛ زوزالت	LC	MA ; Mam ; Op LM ; R	The plant is highly toxic during the flowering period. Symptoms of poisoning affect the nervous and digestive systems. Digestive issues such as colic and diarrhea are common. Fatality is a typical outcome.	-	-	WP

<i>Cleomaceae</i> <i>Cleome amblyocarpa</i> Barratte & Murb. Var. <i>amblyocarpa</i>	-	Th	Sp; Sm	Spider flower/ Cléome	مخينة، لخانة	LC	Ms; As; AA; HA	The ingestion of the plant causes an imbalance in the nervous system, hallucinations, frenzied behavior followed by stupor, loss of appetite, general weakness, and death.	Quercetin; Glucocleomin	+++	S
<i>Colchicaceae</i> * <i>Colchicum</i> <i>autumnale</i> subsp. <i>algeriense</i> Batt.	<i>Colchicum</i> <i>lusitanum</i> Brot.	G	A	Meadow saffron / Colchique d'automne	أكنا؛ بكيوكا؛ البصيلة؛ صورنجان؛ تبركت	LC	HA; MA; Mam; Man; Om; LM; R	Digestive disorders, with symptoms like nausea and vomiting, can lead to severe complications such as dehydration, salivary hypersecretion, and serious hematological issues. In extreme cases, these complications may be fatal, causing cardiac and respiratory arrest.	Colchicine	+++	WP
<i>Coriariaceae</i> <i>Coriaria myrtifolia</i> L.	<i>Coriaria tinctoria</i> Dulac;	Nan	Sp	Redoul/ Corroyère	أرواز، روياء، أرزيز	NT	R	Mild intoxication: digestive issues, drowsiness, confusion. Severe intoxication: paleness, dry mouth, nausea, vomiting, dizziness, mydriasis, loss of sensitivity, restlessness. Very high doses: convulsions, respiratory issues, hypotonic coma, death from cardiac or respiratory arrest.	Coriarine; Coriamyrtine	+++	WP
<i>Cucurbitaceae</i> <i>Bryonia dioica</i> Jacq.	<i>Bryonia cretica</i> subsp. <i>Dioica</i> (Jacq.) Tutin	G	Sp	Red bryony / Navet du diable	لوايا، عنب الديب، كرمة لبيضة	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	Ingesting low doses causes severe gastrointestinal issues, while high doses lead to respiratory problems and death by asphyxiation. Externally, the plant's root powder and sap can cause skin irritation, blisters, and inflammation.	Cucurbitacine B, D, E ; Bryonoside ; Brydiofine	+++	R ; FR
<i>Cucurbitaceae</i> <i>Citrullus colocynthis</i> (L.) Schrad.	<i>Colocynthis</i> <i>vulgaris</i> Schrad.	G	Sm	Bitter cucumber/ Coloquinte	لهيج، حندال، تافزريت أفرزيز، حنطال، أكت	LC	Ms; As; AA; MA; Mam; Man; Op; LM; R	At a low dose: stomach and intestinal pain, watery stools, urine, and cramps. At a higher dose, sometimes bloody stools, swelling of the abdomen, vomiting, a weak pulse, urinary retention, weakness, anxiety, delirium, collapse, intermittent pulse, limb cooling, and death can occur.	Elaterinide; Colocynthine; Cucurbitacine E	+++	R; S; FL; FR
<i>Cucurbitaceae</i> <i>Ecballium elaterium</i> (L.) A. Rich.	<i>Momordica</i> <i>elaterium</i> L.	G	Sp; Sm	Squirting cucumber/ Concombre d'âne	فقوس لحمير	LC	Mam; Man; Op; R	It causes salivation, severe diarrhea with colic, headaches and convulsions.	Elaterine ; Cucurbitacine E	+++	WP
<i>Cupressaceae</i> <i>Juniperus rufescens</i> <i>Juniperus oxycedrus</i> L..	<i>Juniperus rufescens</i> Link	Nan	Sp; W	Prickly juniper /Cadier	طاقا؛ قطران رقيق	LC	As; AA; HA; MA; Man; Om; LM; R	Cardiovascular issues (sinus bradycardia, myocardial excitability disturbances, arterial hypotension, then cardiovascular collapse), neurological, renal, and respiratory problems	Phénol	++	O/E. O
<i>Dioscoreaceae</i> <i>Dioscorea communis</i> (L.) Caddick & Wilkin	<i>Tamus communis</i> L..	G	Sp	Black bryony/ Tamier commun	كرمة سودة	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	Very painful irritation of the mouth and pharynx, vomiting, colic	Phenanthrene; β- sitosterol; Stigmasterol; Aglycone	+	R; FR
<i>Ephedraceae</i> <i>Ephedra alata</i> Decne.	-	Nan	Sp	White shrubby horsetail/ Ephadra	أليندا؛ شديدة؛ زازا	LC	Ms	Vasoconstriction, sustained high blood pressure, slowing of intestinal peristalsis, mydriasis, insomnia, convulsions and increased body temperature, death.	Ephedrine ; Norephedrine	++	AP
<i>Euphorbiaceae</i> <i>Chrozophora</i> <i>tinctoria</i> (L.) A. Juss.	<i>Croton tinctorius</i> L..	Th	Sp; Sm	Giradol/ Maurelle ; Tournesol	مرأس، نيل، ميلش	LC	HA; MA; Mam; Man; LM; R	Jaundice, mydriasis (pupil dilation), vomiting, hematuria, and would lead to death within three days.	N-butanol ; Imipramine ; Undecane	++	AP
<i>Euphorbiaceae</i> <i>Euphorbia</i> <i>balsamifera</i> Aiton	<i>Euphorbia rogeri</i> N.E. Br.	Nan	Sp	Balsam spurge/ Euphorbe de Cayor	أقدير؛ لفرنان	NT	Ms ; AA	When used internally, the plant leads to more or less severe gastroenteritis, for which both the seed oil and latex are responsible. Externally, it causes skin ulcerations.	Daphnane ; Euphorbol ; Friedelin ; Quercetol	++	S ; LT
<i>Euphorbiaceae</i> <i>Euphorbia falcata</i> L.	<i>Euphorbia</i> <i>acuminata</i> Lam.	Th	Sp; Sm	Sickle spurge/ Euphorbe à cornes en faucille	لحليبية؛ حالية	LC	As; AA; HA; MA; Mam;	The same symptoms as <i>Euphorbia balsamifera</i> Aiton	Daphnane ; Euphorbol ; Friedelin ; Quercetol	++	S; LT

							Man; Op; Om; LM; R				
<i>Euphorbiaceae</i> <i>Euphorbia helioscopia</i> L.	<i>Tithymalus helioscopius</i> (L.) Hill	Th	W; Sp; Sm; A	Sun spurge/ Euphorbe réveille-matin	أم لبينة؛ تنوعة	LC	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	The same symptoms as <i>Euphorbia balsamifera</i> Aiton	Daphnane ; Euphorbol Friedelin ; Quercetol	++	S; LT
<i>Euphorbiaceae</i> *IC <i>Euphorbia lamarckii</i> Sweet	<i>Euphorbia broussonetii</i> Willd. Ex Link	Nan	Sp	Euphorbe arborescent	أذير؛ لفرنان	NT	Ms; AA; Mam; Man;	Latex is a potent eye irritant, causing tearing and photophobia. High doses may lead to severe eye damage and blindness, with additional symptoms including coughing, runny nose, laryngitis, and skin ulcers on contact. Ingestion can result in gastroenteritis symptoms.	Daphnane; Euphorbol; D- borneol; Friedelin; Hentriacontane; Quercetol	++	S; LT
<i>Euphorbiaceae</i> <i>Euphorbia lathyris</i> L.	-	Th	Sp; Sm	Caper spurge/ Epurge	مجدانة	NA	Mam; Man	Burning sensation, hypothermia, vomiting, colic, diarrhea, dizziness, pupil dilation, and pulse drop. Progression to delirium, nervous disturbances, convulsions, hemorrhage, and profuse sweating.	Daphnane ; Euphorbol Friedelin ; Quercetol	++	S; LT
<i>Euphorbiaceae</i> <i>Euphorbia nicaeensis</i> All.	<i>Euphorbia dasycarpa</i> Coss. ex Batt. & Trab.	Hem	Sm	-	حالية؛ أم لبينة	LC	Ms; HA; MA; LM	Latex causes eye irritation, potentially leading to blindness. Skin contacts results in ulcers, and ingestion leads to gastroenteritis and digestive tract inflammation.	Daphnane ; Euphorbol Friedelin ; Quercetol	++	S; LT
<i>Euphorbiaceae</i> *M <i>Euphorbia officinarum</i> subsp. <i>Echinus</i> (Hook. F. & Coss.) Vindt	<i>Euphorbia echinus</i> Hook. F. & Coss.	Nan	Sm	Euphorbe cactoside	دغموس؛ شجرة الفرييون؛ زقوم؛ أمكوك؛ تكيوت؛ تكيوت	NT	Ms; AA; MA	Internal use causes severe digestive inflammation, potential gastroenteritis. Larger amounts lead to widespread issues, including ulcers, arrhythmia, convulsions, and potential fatality. Externally, eye contact induces tearing, photophobia, and painful intraocular pressure. Skin application results in irritation with redness, pain, and itching.	Daphnane; Euphorbol; D- borneol; Friedelin; Hentriacontane; Quercetol	++	S; LT
<i>Euphorbiaceae</i> *Euphorbia resinifera O. Berg	-	Nan	Sm	African Spurge/ Euphorbe à résine	لوبان المغربي؛ دغموس؛ شجرة الفرييون؛ أمكوك؛ تكيوت؛	NT	AA; HA; MA; Mam	The same symptoms as <i>Euphorbia officinarum</i> subsp. <i>Echinus</i> (Hook. F. & Coss.) Vindt	Daphnane; Euphorbol; D- borneol; Friedelin; Hentriacontane; Quercetol	++	S; LT
<i>Euphorbiaceae</i> <i>Mercurialis annua</i> L.	<i>Mercurialis ambigua</i> L.	Th	W; Sp; Sm	Annual mercury /Mercuriale	حريقة الملسة	LC	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	Intoxication manifests with diarrhea and hematuria, sometimes accompanied by cylindruria.	Narcissine ; Mercurialine	++	AP
<i>Euphorbiaceae</i> <i>Ricinus communis</i> L.	<i>Ricinus africanus</i> Mill.	Ph	Sm; A	Palm of Christ/ Ricin	خروآع	LC	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	After ingestion: burns, nausea, vomiting, intense thirst, colic, hemorrhagic diarrhea, headaches, and dizziness. Followed by stupor, drowsiness, sweating, and often hypothermia. Severe cases may lead to death from multi-organ failure or cardiovascular collapse.	Ricine	+++	S
<i>Fabaceae</i> <i>Anagyris foetida</i> L.	<i>Anagyris cretica</i> Mill.	Nan	W ; Sp	Stinking bean trefoil/ Anagyre fétide	فول للكب، خروب، الخنزير، خروب للكب، تيزات، ووفن، هابرا	LC	AA; HA; MA; Mam; Man; LM; R	The whole plant, especially the seeds, is toxic, causing symptoms like increased heart rate, elevated blood pressure, vomiting, tremors, paralysis, and potential death. Symptoms may emerge within 4 to 5 hours, depending on the ingested quantity.	Cytisine ; Anagyrene	++	WP
<i>Fabaceae</i> <i>Astragalus vogelii</i> (Webb) Bornm	<i>Phaca vogelii</i> Webb	Th	W ; Sp	-	طير عال؛ ادريال؛ لفنطار	DD	Ms	Digestive disorders, particularly bloating, accompanied by nervous disorders and cerebral congestion.	3-nitropropionic acid	++	S
<i>Fabaceae</i> <i>Calicotome villosa</i>	<i>Spartium villosum</i> Poir.	Nan	Sp	Hairy thorny/ Calicotome	فول الغابة، فويلت للكب	LC	MA ; Man ; R	Hypoactivity, piloerection, tremors, breathing difficulties	Isoquinoline N- oxide	++	S

(Poir.) Link												
<i>Fabaceae</i> <i>Coronilla scorpioides</i> (L.) W.D.J. Koch	<i>Ornithopus scorpioides</i> L.	Th	Sp; Sm	Yellow false crown-vetch/ Coronille Scorpion	ربيعة العقرب	LC	Ms ; As ; AA ; HA ; MA ; Mam; Man; Op; Om; LM; R	Cardiotoxicity, Paralysis	Corotoxigenine; Hyrcanoside	+++	S	
<i>Fabaceae</i> <i>*A Crotalaria saharae</i> Coss.	-	Ch	Sp; Sm; A	Crotalaire	لفوال، لفويال	LC	Ms	Ingesting Crotalaria seeds, either mixed with cereals or used as medicine, has been associated with nasopharyngeal and digestive cancers, hepatitis causing hepatic vein occlusion and ascites, and the formation of esophageal varices.	Monocrotaline; Dicrotaline; Fulvine; Spectabiline	+++	S; AP	
<i>Fabaceae</i> <i>*Erinacea anthyllis</i> Link.	<i>Anthyllis erinacea</i> L.	Ch	Sp	Blue broom/ Balai bleu	قداد؛ شديدة	LC	As ; AA ; HA ; MA ; Op ; R	This plant is sometimes fatal. It is said to cause violent enteritis with swelling of the stomach.	-	-	AP	
<i>Fabaceae</i> <i>*A Genista quadriflora</i> Munby	<i>Genista moleroi</i> Talavera & Gibbs	Nan	Sp	Genet à quatre fleurs	شديدة؛ أزمرليك	LC	HA; MA; Man; Op; LM; R	Symptoms of poisoning become apparent within a span of 10 to 12 hours following the ingestion of the plant, culminating in death after 24 hours.	-	-	AP	
<i>Fabaceae</i> <i>Glycyrrhiza glabra</i> L.	<i>Glycyrrhiza glandulifera</i> Waldst. & Kit.	Ch	Sp; Sm	Sweet wood/ Régisse galbre	عرق سوس	NA	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	Excessive consumption of licorice causes severe hypokalemia with high blood pressure and sometimes ventricular fibrillation.	Glycyrrhizin	++	R	
<i>Fabaceae</i> <i>Lathyrus aphaca</i> L.	<i>Lathyrus affinis</i> Guss.	Th	Sp	Yellow Pea/ Gesse Aphaca	قرون؛ جليان بوقرون؛ ريق لحنش	LC	HA ; MA ; Mam ; Op ; LM ; R	Intoxication is characterized by headaches, stiffness in the limbs with a decrease in leg muscle strength, gradually progressing to paralysis. Sometimes, convulsions are also observed. This set of symptoms in humans is associated with spinal cord involvement.	Lathyrine	+++	S ; L	
<i>Fabaceae</i> <i>Lathyrus cicera</i> L.	<i>Lathyrus cicera</i> var. <i>angustifolius</i> Rouy	B. Th	Sp	Red pea/ Gesse Chiche	قرون؛ جليان بوقرون؛ ريق لحنش	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	The same symptoms as <i>Lathyrus aphaca</i> L.	Lathyrine	+++	S ; L	
<i>Fabaceae</i> <i>Lathyrus clymenum</i> L.	<i>Lathyrus articulatus</i> subsp. <i>clymenum</i> (Briq.) Maire	B. Th	Sp	Crimson Pea/ Gesse Articulée	قرون؛ جليان بوقرون؛ ريق لحنش	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	The same symptoms as <i>Lathyrus aphaca</i> L.	Lathyrine	+++	S ; L	
<i>Fabaceae</i> <i>Lathyrus ochrus</i> (L.) DC.	<i>Pisum ochrus</i> L.	Th	Sp	Cyprus vetch /Garaude	قرون؛ جليان بوقرون؛ ريق لحنش	LC	Mam; Man; Op; Om; LM; R	The same symptoms as <i>Lathyrus aphaca</i> L.	Lathyrine	+++	S; L	
<i>Fabaceae</i> <i>Lupinus angustifolius</i> L.	<i>Lupinus reticulatus</i> Desv.	Th	Sp	Narrowleaf lupin/ Lupin sauvage	رجل الدجاجة؛ كيكل؛ فويلة؛ فول لكب؛ بو زغبية؛ سيمقال	LC	AA; HA; MA; Mam; Man; R	Lupin toxicity, rare in humans due to bitterness, causes symptoms like loss of appetite, convulsions, mydriasis, reflex hyperexcitability, hyperthermia, hematuria, jaundice, and paralysis leading to death by asphyxiation about ten days after initial symptoms.	Lupinine ; Lupanine ; Lupinidine	++	S	
<i>Fabaceae</i> <i>Lupinus micranthus</i> Guss.	<i>Lupinus hirsutus</i> var. <i>micranthus</i> (Guss.) Boiss.	Th	Sp	Hairy Lupin/ Lupin herisse	رجل الدجاجة؛ كيكل؛ فويلة؛ فول لكب؛ بو زغبية؛ سيمقال	LC	AA; MA; Mam; Man; Op; Om; R	The same symptoms as <i>Lupinus angustifolius</i> L. except that the alkaloid content in this species is lower	Lupinine ; Lupanine ; Lupinidine	++	S; FR	
<i>Fabaceae</i>	-	Ch	Sm	-	لحنا	VU	HA; MA; Man	-	-	-	AP	

* <i>Ononis pseudoserotina</i> Batt. & Pit.												
Fabaceae *1 <i>Retama monosperma</i> (L.) Boiss. subsp. <i>monosperma</i>	<i>Spartium monospermum</i> L.	Nan	W ; Sp	Bridal broom/ Rétame à une graine	مشحاط	LC	Ms; AA; HA; Mam; Man; R	This plant has been known to cause poisoning, including fatal cases, when used internally as an abortifacient.	Retamine; d-Sparteine; Anagryrine	+++	FR	
Fabaceae <i>Retama raetam</i> (Forsk.) Webb & Berthel.	<i>Genista raetam</i> Forssk.	Nan	W ; Sp	White weeping broom/ Rétame	مشحاط	NT	Ms; AA; HA; Mam; Man; R	This plant has caused human poisonings misidentify, some of them fatal, due to their use internally as an abortifacient	Retamine ; d- Sparteine ; Anagryrine	+++	FR	
Gentianaceae *A <i>Centaurium erythraea</i> Rafn.	<i>Chironia erythraea</i> (Rafn) Schousb.	Th	Sp; Sm	Common centaurium/ Petite centaurée	مرارة لحنش	DD	AA; HA; MA; Mam; Man; Om; LM; R	-	Swertiamarine; Sweroside; Gentiopicroside Centapicrine	+	AP	
Lamiaceae <i>Hyssopus officinalis</i> L.	-	Ch	Sp; Sm	Hyssop/ Hyssope	زوفوا؛ تفروود	NT	As ; HA	The use of the essential oil causes convulsions and it is neurotoxic.	Borneol	+	O/E. O	
Lamiaceae <i>Mentha pulegium</i> L.	<i>Mentha gibraltaria</i> Willd.	Hem	Sp; Sm	Pennyroyal/ Pouliot	فلبو؛ فلبو دالما	DD	AA; HA; MA; Mam; Man; Op; Om; LM	It is well known that a low dose (<10 mL) of <i>Mentha pulegium</i> L. essential oil can cause nausea, vomiting, abdominal pain, and dizziness, whereas multi-organ failure, potentially leading to death, can occur with a higher dose consumption.	Pulegone	++	O/E. O	
Lamiaceae <i>Rosmarinus officinalis</i> L.	<i>Salvia rosmarinus</i> (L.) Schleid.	Nan	Sp; Sm	Rosemary/ Romarin	أزير؛ كليك؛ باركال؛ إكليل الجبل	LC	As ; HA ; MA ; Op ; Om ; R	Paralysis of the respiratory centers. Death is preceded by epileptiform convulsions. Chronic intoxication is characterized by gastric hemorrhages, albuminuria, cylindruria, and liver steatosis.	Chromium hexavalent	++	R; L	
Myrtaceae <i>Myrtus communis</i> L.	-	Nan	Sp	Myrtle/Myrte	ريحان؛ العاس	NT	Man ; Om ; LM ; R	Overdoses of myrtle oil (more than 10g) can cause potentially lethal poisoning. Symptoms include decreased blood pressure, circulatory disturbances, collapse, and respiratory failure.	1,8-cineole	+++	O/E. O	
Oleaceae <i>Ligustrum vulgare</i> L.	<i>Ligustrum album</i> Gueldenst. ex Ledeb.	Nan	Sp; Sm	Spontaneous privet/ Troène	شبيكة	EN	MA	Diarrhea, abdominal pain, collapse, convulsions preceding death.	Syringine	+++	FR	
Onagraceae <i>Epilobium hirsutum</i> L.	<i>Epilobium mirei</i> Quézel	Hem	Sp; Sm	Great willowherb/ Epilobe	حشيش الشعبة؛ وريقة إبليس	LC	Ms ; AA ; HA ; MA ; Mam ;Man	The leaves eaten by children can cause epileptiform convulsions with bloating of the abdomen and pinpoint pupils.	Quercetol	++	FL	
Papaveraceae <i>Papaver rhoeas</i> L.	<i>Papaver agrivagum</i> Jord.	Th	Sp; Sm	Flanders poppy/ Coquelicot	بلعمان؛ تالودات؛ بوغمو	LC	Ms ; As ; AA ; HA ; MA ; Mam ; Man ; Op ; Om ; LM ; R	During and after flowering, the plant causes accidents, especially in children. They are characterized by nausea, vomiting, paleness of the face, followed by feverish excitement.	Rhœadine	++	FR; FL	
Plantaginaceae <i>Globularia alypum</i> L.	<i>Globularia murbecki</i> Sennen	Ch	Sp	Alypo Globe Daisy/ Globulaire Frutescente	زوتينة؛ شلرة؛ زيري تاسلرة	LC	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	It causes oliguria and slowing of the pulse; at high doses, diarrhea, colic, precordial anxiety, dizziness, headache, chills, limb pain, and a decrease in temperature.	Quercetine	++	AP	
Plumbaginaceae <i>Plumbago europaea</i> L.	-	Ch	Sm; A	Common leadwort/ Dentellaire	حشيشة الأسنان	LC	AA; HA; MA; Mam; Man; Om; LM; R	In addition to being abortive and potentially causing infertility in certain cases, the plant, especially its roots, is strongly irritating to the skin and can lead to the formation of skin blisters and local inflammations upon contact.	-	-	WP	

<i>Poaceae</i> <i>Anthoxanthum odoratum</i> var. <i>glabrescens</i> Celak.	<i>Anthoxanthum odoratum</i> L.	Hem	Sp	Sweet vernal grass / Flouve odorant	ذيل الفار	LC	HA; MA; Man; Om; R	Nausea, vomiting, headache, dizziness, slowing of heart functions, and a decrease in body temperature.	Coumarin	++	AP
<i>Poaceae</i> <i>Arundo donax</i> L.	<i>Arundo aegyptiaca</i> Hort. Ex Vilm.	G	Sm; A	Giant cane/ Canne de Provence	لكصبا؛ أكي	LC	Ms ; As ; AA ; HA ; MA ; Mam; Man; Op; Om; LM; R	Irritations and allergic reactions occur on the skin and eyes upon contact with the plant. The roots cause hallucinations.	Bufotenine	+	R; AP
<i>Poaceae</i> <i>Lolium perenne</i> L.	<i>Lolium tenue</i> L.	Hem	Sp; Sm	Perennial ryegrass/ Ivraie vivace	زاوان؛ لمدهون؛ جاليف؛ شایل	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	Poisoning from contaminated cereals (darnel) causes symptoms like headache, dizziness, vision issues, ringing in ears, drowsiness, staggering, limb numbness, anxiety, nausea, vomiting, stomach pain, colic, frequent urination, and sweating. Severe cases may lead to death during convulsions.	Halostachine ; Perloine ; Temuline	+++	S
<i>Poaceae</i> <i>Lolium temulentum</i> L.	<i>Lolium arvense</i> With.	Th	Sp; Sm	Darnel ryegrass/ Ivraie	زاوان؛ لمدهون؛ جاليف؛ شایل	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	The same symptoms as <i>Lolium perenne</i> L.	Halostachine ; Perloine	+++	S
<i>Poaceae</i> <i>Molinia caerulea</i> (L.) Moench	<i>Aira coerulea</i> L.	Hem	Sp; Sm	Purple moor-grass/ Molinie bleu	زرکیة	DD	HA; R	The same symptoms as <i>Lolium perenne</i> L.	Halostachine ; Perloine	++	S
<i>Poaceae</i> <i>Phalaris minor</i> Retz.	<i>Phalaris gracilis</i> Parl.	Th	Sp	Small canary grass/ Alpiste mineur	دمية؛ فرواط؛ زوان	LC	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	All parts of the plant are toxic, especially in the young state. Signs of intoxication manifest as severe neurological disorders with stiffness, ataxia, motor incoordination, and falling, followed by digestive disturbances dominated by diarrhea.	Gramine	++	WP
<i>Paeoniaceae</i> <i>Paeonia mascula</i> (L.) Mill.	<i>Paeonia corallina</i> Retz.	R.G	Sp	Spontaneous peony/ Piovine Rouge	فوانية؛ ورد لحمير؛ حب رسیس	VU	R	The need to vomit, shortness of breath, a highly abnormal heartbeat that tends to weaken, intermittent convulsions of the limbs, a strong contraction of the pupil, insensitivity beginning in the hind limbs and tending to spread, culminating in complete paralysis and death.	Inconnue	-	R; S; FR
<i>Polygonaceae</i> * <i>Rumex acetosa</i> L.	<i>Rumex acetosa</i> var. <i>atlantis</i> Maire	Hem	Sm	Sorrel /Oseille	حمیضة؛ تاسمومت؛ سممامون؛ قوريسا؛ خنزراب	LC	AA ; HA ; MA	Poisoning symptoms from the plant include numbness, cold extremities, bradycardia, tachypnea, and diarrhea. In severe cases, ingestion can be fatal.	Oxalic acid	++	R; L
<i>Primulaceae</i> * <i>A Cyclamen africanum</i> Boiss. & Reut.	<i>Cyclamen saldense</i> Pomel.	G	W	African cyclamen/ Cyclamen	تانینا، حدیبیة، بخور مریم، تازردات، تجیجیست	RE	R	Nausea, headache, abdominal pain, vomiting, and diarrhea. High doses may lead to convulsions, dizziness, and cold sweats, with the possibility of blood in vomit and stool, and, in severe cases, death.	Cyclamen	+++	WP
<i>Ranunculaceae</i> * <i>Aconitum lycoctonum</i> L.	-	Hem	Sm	Wolf's-bane/ Aconite; Tue-loup	قاتل ذیب، كسار الموریک، شرنك، بلعلع، بیس، اجنتار، خانق ذیب	NT	AA; MA	Colic, convulsions, shortness of breath, increase in blood pressure and drop-in pulse rate	Lycoctonine; Lycaconitine	+++	WP
<i>Ranunculaceae</i> * <i>Adonis aestivalis</i> L.	<i>Adonis flava</i> Vill.	Th	Sp	Summer pheasant's-eye / Goutte de sang ; Adonis d'été	عين الحجال، بینة منساغیر، دم العتروس، بن نعمان، عين لیوما، ناب الجمیل	LC	Op; Om	Colic, cramps, respiratory distress, raises blood pressure and energy of heart contractions and lowers pulse rate.	k- Strophanthidin; lutein; D- glucoside	+++	AP

<i>Ranunculaceae</i> * <i>Aquilegia vulgaris</i> L.	<i>Aquilegia vulgaris</i> subsp. <i>viscosa</i> auct.	Hem	Sp	Columbine/ Aiglantine	أقيليا	VU	HA; MA; R	Rapid breathing, sweating, and vomiting precede a slowed heartbeat. Limbs lie inert, occasionally convulsing. Complete insensibility follows, and death occurs in syncope with halted breathing.	Cyanhydric acid	+++	WP
<i>Ranunculaceae</i> <i>Delphinium</i> <i>staphisagria</i> L.	<i>Staphisagria</i> <i>macrosperma</i> Spach	Hem	Sp	Stavesacre/ Herbe aux poux	حبة الرأس ، أشاشة	VU	LM ; R	Half an hour after ingestion: vomiting, irritation of the oral mucosa, redness and inflammation of the skin, pharyngitis, stomach and intestinal pain, diarrhea, slowing of heart function, asphyxia, death at high doses. When applied to the scalp, it causes eczema on the face and hands.	Delphinine ;Delphisine	+++	R ; S
<i>Ranunculaceae</i> <i>Ficaria verna</i> Huds.	<i>Ranunculus ficaria</i> L.	Hem	A; Sp	Lesser celandine/ Ficaire	ن الحلوف؛ فالس؛ كف السبع؛ سنة لفار	LC	HA; MA; Man	Stupor, slowing of breathing and heartbeats, convulsions. The Buttercup has caused salivation, spinning, loss of consciousness with falling, and sudden death in cows.	Renonculine ; Ficarine	+++	WP
<i>Ranunculaceae</i> <i>Helleborus foetidus</i> L.	-	G	Sp; W	Stinking hellebore/ Ellebore fetide	خرباق	VU	R	Poisoning: salivation, nausea, vomiting, abdominal pain, diarrhea, pale skin. Symptoms include ringing in ears, head heaviness, adynamia, mydriasis; slow, weak pulse. Death occurs in 3 to 12 hours, preceded by dyspnea and convulsions.	Ouabain ; Cisplatine ; Etoposide	+++	AP
<i>Ranunculaceae</i> <i>Myosurus minimus</i> L.	<i>Myosurus minimus</i> var. <i>breviscapus</i> (Huth) Maire	Th	Sp	Tiny mousetail/ Ratoncule	ذيل الفار؛ ذيل الجمل	VU	HA; MA	Breathing becomes intermittent. Dyspnea gradually intensifies, gait becomes unsteady, heartbeats, initially very rapid, become very slow. Paralysis starting from the hind limbs soon becomes general. Death occurs due to asphyxiation.	Halostachine ; Peroline ; Temuline	+++	S
<i>Ranunculaceae</i> <i>Nigella damascena</i> L.	<i>Nigella damascena</i> var. <i>africana</i> Brandt	Th	Sp	Love-in-a-mist / Nigelle de Damas	سانوج؛ كامون اسود حبة سوداء؛ زراع	LC	HA; MA; Mam; Man; LM; R	Excessive salivation, severe difficulty in breathing, pupil contraction, the onset of increasingly frequent convulsive movements, followed by a decrease in respiratory movements and muscle activity. Numbness spreads, and heartbeats cease.	Damascenine ; Nigelline	++	S; L; FR
<i>Ranunculaceae</i> <i>Nigella sativa</i> L.	-	Th	Sp	Black cumin/ Nigelle	سانوج؛ كامون اسود؛ حبة سوداء؛ زراع	NA	LM ; R	The same symptoms as <i>Nigella damascena</i> L.	Damascenine ; Nigelline	++	S; L; FR
<i>Ranunculaceae</i> <i>Ranunculus bulbosus</i> L.	<i>Ranunculus</i> <i>valdepubens</i> Jord. L.	Hem	Sp; Sm	Bulbous buttercup/ Renoncule Bulbeux	ودن الحلوف؛ فالس؛ كف السبع؛ سنة لفار	LC	HA; Man	Stupor, slowed breathing and heartbeats, convulsions.	Renonculine	+++	WP
<i>Ranunculaceae</i> <i>Ranunculus flammula</i> L.	<i>Ranunculus</i> <i>flammula</i> var. <i>alismifolius</i> Glaab	Hem	Sp	Lesser spearwort/ Flammule	زغليل	CR	R	The same symptoms as <i>Ranunculus bulbosus</i> L.	Renonculine	+++	WP
<i>Ranunculaceae</i> <i>Ranunculus repens</i> L.	<i>Ranunculastrum</i> <i>reptabundum</i> Four L.	Hem	Sp; Sm	Creeping buttercup/ Renoncule Rampante	رجل الدجاجة	VU	HA; MA; Op; R	The same symptoms as <i>Ranunculus bulbosus</i> L.	Renonculine	+++	WP
<i>Ranunculaceae</i> <i>Ranunculus sceleratus</i> L.	<i>Ranunculus</i> <i>sceleratus</i> var. <i>globosus</i> Freyn ex Batt.	Th	Sp	Cursed buttercup/ Renoncule Scelerate	زغليل	DD	MA; Man; R	The same symptoms as <i>Ranunculus bulbosus</i> L.	Renonculine	+++	WP
<i>Ranunculaceae</i> *IA <i>Thalictrum</i> <i>flavum</i> L.	<i>Thalictrum</i> <i>speciosissimum</i> L.	Hem	Sp; Sm	Yellow meadow- rue /Pigamon	كوزة	NT	HA; MA; Man; R	Drowsiness, weakness, vomiting, rapid paralytic progression, reduced sensitivity, gradual dyspnea, slowing heartbeat, sudden convulsion, dilated pupils, and death as the heart stops.	Aconitine;Thalictrine	+++	S; L
<i>Rhamnaceae</i> <i>Frangula alnus</i> Mill.	<i>Rhamnus frangula</i> L.	Ph	Sp; Sm	Alder buckthorn/ Bourdaine	أميليليس؛ أحماراي	VU	Man; R	Consuming fresh fruits causes headaches, dizziness, loss of consciousness, vomiting, colic, and bloody	Rhamnatoxine	+++	WP

								stools. Clonic convulsions, dilated pupils, small frequent pulse, and irregular breathing occur after 4-5 hours.			
<i>Rosaceae</i> <i>Crataegus rhipidophylla</i> Gand.	<i>Crataegus oxyacantha</i> L.	Nan	W; Sp	Hawthorne/ Epine blanche	زعرور، أتمين، إدمين، إزمين، أدمام	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	Chronic diarrhea, vomiting, death (in some cases, especially in children)	Quercetine; Amygdaline	++	S; FR; FL
<i>Rutaceae</i> <i>Ruta chalepensis</i> L.	<i>Ruta bracteosa</i> DC.	Ch	Sp; Sm	Fringed rue/Rue d'Alep	لفيجل؛ أوري؛ سوداب	LC	HA; Mam; Man; Om; R	Poisoning symptoms: gastroenteritis, dizziness, drowsiness, weakness, slow weak pulse, skin cooling, swollen tongue, abundant salivation, tremors, and coma. Rue causes itchy rashes and blisters on the skin upon contact.	Isopimpinellin; Xanthotoxin	++	R; L
<i>Rutaceae</i> <i>Ruta montana</i> L.	<i>Ruta graveolens</i> var. <i>montana</i> L.	Ch	Sp; Sm	Mountain Rue/ Rue de montagne	لفيجل؛ أوري؛ سوداب	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	Poisoning is characterized by gastroenteritis, dizziness, drowsiness, weakness, slow pulse, skin cooling, swollen tongue, salivation, tremors, and coma. Rue, on skin contact, causes itchy rashes and blisters due to furocoumarins.	Isopimpinellin; Xanthotoxin	++	R; L
<i>Santalaceae</i> <i>Viscum album</i> L.	-	Ch(Pa)	Sp; Sm	European mistletoe /Gui	وري؛ ٲوتشاخ؛ ون حدال	EN	R	High doses of leaves, branches, and fruits cause cardiac arrest, diarrhea, vomiting, asthenia. Large quantities may lead to cardiovascular and neurological disorders, confusion, and death from cardiovascular collapse.	Viscotoxine	+++	L; FR
<i>Santalaceae</i> <i>Viscum cruciatum</i> Boiss.	-	Ch(Pa)	Sp	Red-berry mistletoe /Gui	لندجبار؛ أسوموم أوشن	LC	As; AA; HA; MA; Man; Op; R	The same symptoms as <i>Viscum album</i> L.	Viscotoxine	+++	L; FR
<i>Scrophulariaceae</i> * <i>Digitalis lutea</i> L.	<i>Digitalis lutea</i> subsp. <i>Atlantica</i> (Ball) Litard.	Hem	Sp; Sm	Straw foxglove/ Digitale Jaune	قامية	NT	HA; MA; Op; Om	Digestive disorders may show symptoms such as violent gagging, abdominal pain, and diarrhea. Nervous disorders may include dyschromatopsia, scintillating scotomas, reduced visual acuity, hallucinatory delirium, and vertigo.	Digitaline, Digitoxine, Bigitaline	+++	L
<i>Scrophulariaceae</i> * <i>Digitalis obscura</i> L.	-	Ch	Sm	Willow-leaved foxglove / Digitale obscure	قامية	VU	LM; R	The same symptoms as <i>Digitalis lutea</i> L.	Digitaline, Digitoxine, Bigitaline	+++	L
<i>Scrophulariaceae</i> * <i>Digitalis purpurea</i> L.	<i>Digitalis mauritanica</i> (Humbert & Maire) Ivanina	Hem	Sp; Sm	Common foxglove / Digitale pourpre	قامية	VU	AA; MA; R	The same symptoms as <i>Digitalis lutea</i> L.	Digitaline, Digitoxine, Bigitaline	+++	L
<i>Solanaceae</i> * <i>Atropa baetica</i> Willk	-	Hem	Sm	Andalusian belladonna/ Belladone d'Espagne	باليدور، بوقينبا، تيدبال، زيبب الاليدو	DD	HA; MA; R	Small doses accelerate the heartbeat and raise blood pressure, while larger doses lead to a drop. Loss of consciousness occurs, and with very high doses, immediate coma follows, culminating in death within 5 to 15 hours.	Atropine; Hyoscyamine; Atropic acid	+	R; L; FL; FR
<i>Solanaceae</i> <i>Atropa bella-donna</i> L.	-	Hem	Sp; Sm	Deadly nightshade/ Morelle furieuse	باليدور، بوقينبا، تيدبال، زيبب الاليدو	EN	MA; R	Belladonna poisoning symptoms vary: acute cases include dry mouth, intense thirst, difficulty swallowing, skin changes, and potential coma or death within hours; chronic cases show pupil	Atropine; Hyoscyamine ; Belladonine	+	WP
<i>Solanaceae</i> <i>Datura innoxia</i> Mill.	<i>Datura meteloides</i> Dunal	Th	W; Sp	Pricklyburr/ Datura inoffensif	شديق الجمال، تيدبال	NA	Mam	All parts of the plant, including the roots, are highly toxic. Usually, it is the flowers and seeds that cause poisoning. Symptoms of intoxication include neurotoxicity, fever, dry skin, dry mouth, headaches, hallucinations, convulsions, rapid and weak pulse, acute confusion, delirium, tachycardia, coma, and death.	Hyoscyamine, Atropine, Scopolamine	+	WP

<i>Solanaceae</i> <i>Datura stramonium</i> L.	<i>Datura tatula</i> L.	Th	Sp; Sm; A	Jimsonweed/ Pomme du Diable	شديق الجمل، تيديال، موسكيرا	NA	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	The same symptoms as <i>Datura innoxia</i> Mill.	Hyoscyamine, Atropine, Scopolamine, Hyoscine, Daturine	++	WP
<i>Solanaceae</i> <i>Hyoscyamus albus</i> L.	<i>Hyoscyamus major</i> Mill.	Th	Sp; Sm	White henbane/ Jusquiame Blanche	سيكران؛ بورنجوف؛ بنج	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	Low dose: bitter taste, throat dryness, accelerated breathing, increased temperature. High dose: intoxication-like state, burning throat, pronounced vision issues, increased urinary secretion, and profuse sweating.	Hyoscyamine ; Atropine ; Scopolamine ; Hyoscine	++	S; AP
<i>Solanaceae</i> * AM <i>Hyoscyamus muticus</i> subsp. <i>Falezlez</i> (Coss.) Maire	<i>Hyoscyamus falezlez</i> Coss.	Hem	Sp	Egyptian henbane/ Jusquiame Falezlez	بطينا؛ أفلحلي	VU	Ms	Low doses: bitter taste, dry throat, increased swallowing, accelerated breathing, slight rise in body temperature. High doses: intoxication similar to drunkenness, vision issues, dry, burning	Hyoscyamine ; Atropine ; Scopolamine ; Hyoscine	++	S; AP
<i>Solanaceae</i> <i>Hyoscyamus niger</i> L.	-	Th	Sp; Sm	Black henbane/ Jusquiame Noire	سيكران؛ بورنجوف؛ بنج	LC	HA ; MA, Mam ; LM ; R	The same symptoms as <i>Hyoscyamus albus</i> L.	Hyoscyamine ; Atropine ; Scopolamine ; Hyoscine	++	S; AP
<i>Solanaceae</i> <i>Mandragora officinarum</i> L.	<i>Mandragora autumnalis</i> Bertol.	G	Sp; Sm	Mandrake/ Mandragore	بيض الغول؛ بروج؛ لفاح الجن؛ تريالة	LC	Mam; Man	Sudden dizziness, vomiting, unsteady gait, and intense thirst. Dilated pupil, reduced vision, and congested face. Severe cases may include delirium, itching, and burning sensation. Death can occur within 12 hours, with or without preceding coma.	Mandragorine ; Hyoscyamine	+++	R; L; FR; B
<i>Solanaceae</i> <i>Solanum dulcamara</i> L.	<i>Solanum dulcamara</i> var. <i>indivisum</i> Boiss.	Hem	Sp; Sm	Bittersweet nightshade/ Douce-amère	عنب الذيب	LC	HA; MA; Mam; Man; LM; R	The poisoning is essentially characterized by nausea and vomiting, dizziness, vision disturbances, diarrhea, renal and intestinal hypersecretion, and death in the most severe cases.	Solanine ; Solanidine	++	FR
<i>Solanaceae</i> <i>Solanum elaeagnifolium</i> Cav.	-	Hem	Sp	Silverleaf nightshade/ Morelle jaune	شوكة صفرا؛ شويكة؛ حاسيكا	NA	Mam; Man	The symptoms of intoxication manifest as neurological, gastrointestinal, and cardiac disorders. They are characterized by apathy, drowsiness, excessive salivation, vomiting, abdominal pain, diarrhea, and loss of consciousness.	Solanine ; Solanidine	++	FR
<i>Solanaceae</i> <i>Solanum incanum</i> L.	<i>Solanum sodomaeum</i> L.	Nan	Sp; Sm	Bitter apple/ Morelle de Sodome	إلهدج؛ مطيشة لحمي	NA	Mam; Man; Om; LM; R	Children attracted to berries may face intoxication. Symptoms: pallor, vacant eyes, numb tongue, confusion, headaches, vomiting, diarrhea. Recovery in 24-48 hours; severe cases may lead to complications like delirium, hallucinations, increased heart rate, convulsions, and death.	Solanine ; Solanidine	++	FR
<i>Solanaceae</i> <i>Solanum nigrum</i> L.	<i>Solanum suffruticosum</i> Schousb. ex Willd.	Th	Sp; Sm	Black nightshade/ Morelle noire	عنب الذيب؛ عنب الطالب؛ بوقنينا؛ موقنينا	LC	AA; HA; MA; Mam; Man; Op; Om; LM; R	Black nightshade intoxication: narcotic use or accidents with children. Symptoms: pallor, vacant eyes, numb tongue, confusion, headaches, vomiting, diarrhea, and sometimes convulsions. Recovery in 24-48 hours; severe cases may lead to complications like delirium, hallucinations, increased heart rate, dry mouth, mydriasis, convulsions, paralysis, coma, and death.	Solanine ; Solanidine	++	FR
<i>Santalaceae</i> <i>Withania somnifera</i> (L) Dunal.	<i>Physalis somnifera</i> L.	Ch	Sp; Sm	Ashwagandha/ Coqueret somniafère	حب لحو؛ سيكران؛ عنب الذيب؛ سم الفار	LC	Ms; Mam; Man; Om; LM; R	Vomiting, paresthesia, loss of consciousness, mydriasis, tetanic convulsions.	Piperidin ; Anaferine	+++	S
<i>Taxaceae</i> <i>Taxus baccata</i> L.	<i>Cephalotaxus tardiva</i> Siebold	Ph	Sp	Common yew/If	أدغام؛ إمرول؛ ضخش	VU	MA; R	Vomiting, stomach pains, colic, paleness, dizziness, drooping eyelids, albuminuria. Limbs and trunk may have purple spots. Irregular heartbeats, stertorous breathing. Death occurs through asphyxiation amid convulsions.	Taxine A & B	+++	S; R; L; FR

<i>Thymelaeaceae</i> *A <i>Daphne gnidium</i> L.	<i>Daphne gnidium</i> var. <i>sericea</i> Faure & Maire	Ch	Sp	Flax-leaved daphne/ Camélée noire	الرزاز، الرزاز، أزاز، إنبيت، ممتنان	LC	As ; AA ; HA ;MA ; Mam ; Man; Op; Om; LM; R	Prostration, confusion, shivering, and paleness within 15 minutes, followed by dilated pupils, loss of consciousness, colic, nausea, vomiting, profuse diarrhea, and potential death due to respiratory and circulatory problems.	Daphnetine, Daphnine	+++	WP
<i>Thymelaeaceae</i> <i>Daphne laureola</i> L.	-	Nan	Sp	Spurge laurel/ Laurier du bois	الدفايال، تاليدار	LC	HA ; MA ;LM ; R	Within 15 minutes of ingesting the berry: exhaustion, stupor, chills, dilated pupils, loss of consciousness, colic, nausea, vomiting, diarrhea, respiratory and circulatory issues, leading to death.	Daphnetine, Daphnine	+++	WP
<i>Zygophyllaceae</i> <i>Peganum harmala</i> L.	<i>Peganum</i> <i>rothschildianum</i> Buxb.	Ch	Sp; Sm	Syrian rue /Rue sauvage	حرمل	LC	Ms; As; AA; HA; MA; Mam; Man; Op; Om; LM; R	Vomiting, dizziness, tremors, heat sensation. Followed by hallucinations, seizures, headaches, cardiac disturbances, circulatory complications, paralysis, nephrotoxicity signs. Central nervous system paralysis leads to death from respiratory arrest.	Vaccine ; Harmaline ; Harmine ; Harmalol	++	R; S

Fig. S1. Geographical divisions of Morocco according to Fennane & al. (1999).

