



Supplement

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Table S1. List of plant species recorded from the study area with detailed ethnobotanical uses.

Family	Botanical name	Vernacular name	Growth form	Life span	Part used	Preparation	Medicinal use (human)	Veterinary medicine	Other ethnobotanical use	Ecological status	Report use	UV
Acanthaceae	<i>Blepharis ciliaris</i> (L.) B. L. Burt	Shawk Aldab	Herb	Annual	Leaves	Decoction	Influenza (Dirar <i>et al.</i> 2021)	----	----	Common	5	0.14
Amaranthaceae	<i>Aerva javanica</i> (Burm.f.) Juss. ex-Schult.	Ra'a	Herb	Perennial	Leaves	Raw; decoction also taken with asal (honey)	Cold, cough (Skalli <i>et al.</i> , 2019)	----	Craft	Common	12	0.32
Apiaceae	<i>Ducrosia flabellifolia</i> Boiss.	Haza	Herb	Biennial	Whole	Oil	Leukemia (Snoussi <i>et al.</i> 2022)	----	----	Rare	2	0.05
Apocynaceae	<i>Calotropis procera</i> (Aiton) W.T.Aiton	Aloshar	Tree	Perennial	Leaves	Infusion	Fever (Bhardwaj <i>et al.</i> 2025)	----	----	Opportunistic	5	0.14
Apocynaceae	<i>Caudanthera sinaica</i> (Decne.) Plowes	Al-Rawai	Herb	Perennial	Stems	Raw	Diabetes (Gawli and Bojja 2024)	----	----	Rare	3	0.08
Apocynaceae	<i>Leptadenia pyrotechnica</i> (Forssk.) Decne.	Marakh	Shrub	Perennial	Stems	Extract	Wound treatment (Kumari <i>et al.</i> 2025)	Fractures of bones and joints	Fodder, fuelwood	Common	7	0.19
Apocynaceae	<i>Rhazya stricta</i> Decne.	AlHarmal	Shrub	Perennial	Leaves	Paste	Wound treatment (Albeshri <i>et al.</i> 2021)	Wound treatment	----	Opportunistic	10	0.27
Apocynaceae	<i>Solenostemma arghel</i> (Delile) Hayne	Argel	Herb	Perennial	Flowers	Infusion, sweetened with dates	Gastro-intestinal cramps, stomachache (Abdel-Sattar <i>et al.</i> 2024)	----	Herbal tea	Common	9	0.24
Asphodelaceae	<i>Asphodelus tenuifolius</i> Cav.	AlBaroq	Herb	Annual	Seeds	Poultice	Skin disease (Nahar <i>et al.</i> 2025)	----	Food	Opportunistic	6	0.16
Brassicaceae	<i>Anastatica hierochuntica</i> L.	Kaf Marium	Herb	Annual	Whole	Decoction	Facilitate birth (Zohu <i>et al.</i> 2026)	----	----	Common	4	0.11
Burseraceae	<i>Commiphora gileadensis</i> (L.) C.Ch.	Balsam	Tree	Perennial	Sap	Raw, also combined with black seed (<i>Nigella sativa</i> , habbat al-barakah)	Pain reliever, Anti-bacteria (Mokaizh <i>et al.</i> 2023)	----	Fragrance	Threatened	18	0.49
Burseraceae	<i>Commiphora kataf</i> (Forssk.) Engl.	AlQafal	Tree	Perennial	Sap	Raw and Decoction	Stomachache (Latha <i>et al.</i> 2021)	----	Fragrance	Declining	7	0.19
Capparaceae	<i>Capparis cartilaginea</i> Decne.	Allsaf	Shrub	Perennial	Leaves	Poultice	Headache (Rivera and Obón, 1995)	----	Food, Fodder	Common	7	0.19
Cucurbitaceae	<i>Citrullus colocynthis</i> (L.) Schrad.	Handal	Herb	Perennial	Fruits	Paste, mixed with asal (honey)	Diabetes (Alsalihi <i>et al.</i> 2025)	----	----	Opportunistic	11	0.3
Cupressaceae	<i>Juniperus turbinata</i> Guss.	Alarar	Tree	Perennial	Leaves	Decoction	Urinary inflammations	----	Food, fuelwood	Threatened	4	0.11
Euphorbiaceae	<i>Ricinus communis</i> L.	Khurwa	Shrub	Perennial	Seeds	Oil	Stomach problem (Ramothloa <i>et al.</i> 2025)	----	----	Common	9	0.24
Fabaceae	<i>Senegalia hamulosa</i> (Benth.) Boatwr.	Qatad	Tree	Perennial	Sap, leaves	Decoction, Paste	Colon pain	Eye Infection	Fodder, fuelwood	Common	16	0.43
Fabaceae	<i>Senna alexandrina</i> Mill.	Alsanamakki	Herb	Perennial	Leaves	Paste, taken with asal (honey); also combined with ginger (zanjabil), fennel (shamar) or anise (yansoon) to reduce griping	Stomachache	----	----	Rare	5	0.14



Fabaceae	<i>Trigonella stellata</i> Forssk.	Helba	Herb	Annual	Leaves, seeds	Decoction; seeds taken with haleeb (milk); also combined with fennel (shamar) to ease digestion	Abdominal pain (Saeidnia <i>et al.</i> 2014; Wani and Kumar, 2018).	----	Food	Common	7	0.19
Fabaceae	<i>Vachellia flava</i> (Forssk.) Kyal. & Boatwr.	AlSalam	Shrub	Perennial	Bark	Paste, applied with samn (butter) or oil	Skin disease (Elshikh <i>et al.</i> 2025)	----	Fodder, fuelwood	Common	4	0.11
Geraniaceae	<i>Erodium laciniatum</i> (Cav.) Willd.	Khabizah	Herb	Annual	Leaves, roots	Raw	Urinary inflammations (Munekata <i>et al.</i> 2019)	----	Fodder	Common	2	0.05
Lamiaceae	<i>Mentha longifolia</i> (L.) L.	Habak	Herb	Annual	Leaves	Decoction, also blended with sage (Maramiah, <i>Salvia deserti</i>)	Headache, Stomachache (Shahar <i>et al.</i> 2024)	----	Herbal tea, Fragrance	Common	4	0.11
Lamiaceae	<i>Salvia deserti</i> Decne.	Maramiah	Herb	Annual	Leaves, seeds	Decoction, also combined with mint (Habak, <i>Mentha longifolia</i>) in herbal tea	Inflammations, Anti-bacteria, Indigestion (Guetat <i>et al.</i> 2025)	----	Herbal tea	Rare	5	0.14
Lamiaceae	<i>Teucrium capitatum</i> L.	Germader	Herb	Annual	Leaves	Decoction	Inflammation, antipyretic (Tarik <i>et al.</i> 2024)	----	Herbal tea	Common	14	0.38
Loranthaceae	<i>Plicosepalus acaciae</i> (Zucc.) Wiens & Polhill	Anam	Parasitic	Perennial	Leaves	Paste	Wound treatment (Chelouati <i>et al.</i> 2021)	----	Fodder	Common	5	0.14
Moraceae	<i>Dorstenia foetida</i> (Forssk.) Schweinf.	Amlagaf	Shrub	Perennial	Stem	Paste	Head alopecia (Peniche-Pavía <i>et al.</i> 2018)	----		Rare	7	0.19
Moraceae	<i>Ficus salicifolia</i> Vahl	Alathab	Tree	Perennial	Leaves	Paste	Wound treatment (Orwa <i>et al.</i> 2009)	----	Fodder	Common	4	0.11
Moringaceae	<i>Moringa peregrina</i> (Forssk.) Fiori	AlBan	Tree	Perennial	Seeds	Oil	Diabetes, Stomachache (Anwar <i>et al.</i> 2007; El-Alfy <i>et al.</i> 2011)	----	Food	Common	8	0.22
Poaceae	<i>Cymbopogon schoenanthus</i> (L.) Spreng.	Lemongrass	Herb	Perennial	Whole	Decoction, also blended with mint (Habak)	Influenza (Zhao <i>et al.</i> 2024)	----	Herbal tea	Common	5	0.14
Polygonaceae	<i>Rumex vesicarius</i> L.	Homidh	Herb	Annual	Leaves	Raw	Indigestion (Bouafia <i>et al.</i> 2026)	----	Food	Common	17	0.46
Rhamnaceae	<i>Ziziphus spina-christi</i> (L.) Desf.	Alsider	Tree	Perennial	Fruits	Raw; leaves also mixed with henna (<i>Lawsonia inermis</i> , hinna) as a hair and scalp wash	Stomachache, Body aches (Dhanalekshmi <i>et al.</i> 2022)	----	Doubtful Food, Fodder	hair, Common and	6	0.16
Salvadoraceae	<i>Salvadora persica</i> L.	Araak	Tree	Perennial	Root	Raw	Toothbrush (Seshathri and Thiagarajan, 2011)	----	Food	Declining	4	0.11
Tiliaceae	<i>Corchorus depressus</i> (L.) Stocks	Molokhiya	Herb	Annual	Leaves	Decoction	Urinary disorders (Patel <i>et al.</i> 2022)	----		Common	3	0.08
Vitaceae	<i>Cissus quadrangularis</i> L.	Ghalaf	Climber	Perennial	Leaves	Raw and Decoction	Stomach disorders (Jeevitha <i>et al.</i> 2025)	----	Fodder	Common	5	0.14
Vitaceae	<i>Cissus rotundifolia</i> (Forssk.) Vahl	Gelef	Climber	Perennial	Leaves	Raw and Decoction	Stomach disorders (Mshengu <i>et al.</i> 2025)	----	Fodder	Common	7	0.19
Xanthorrhoeaceae	<i>Aloe vera</i> (L.) Burm. F.	Sabbar	Shrub	Perennial	Leaves	Paste	Skin infection (Abid <i>et al.</i> 2025)	----	Moisturizing	Common	8	0.22
Zygophyllaceae	<i>Fagonia schweinfurthii</i> (Hadidi) Nabil & Hadidi	Hadadi	Herb	Annual	Stem	Decoction	Infection of the Urethra (Joshi and Jain 2021)	----	Herbal tea	Rare	6	0.16
Zygophyllaceae	<i>Tribulus terrestris</i> L.	Gatab	Herb	Annual	Leaves, seeds	Decoction and paste	Sexual stimulant (Kokoska <i>et al.</i> 2002)	----	----	Common	8	0.22
Zygophyllaceae	<i>Zygophyllum simplex</i> L.	Alqaramal	Herb	Annual	Leaves, seeds	Infusion	Laxative (Galal <i>et al.</i> 2025)	----	----	Common	2	0.05



Fig. S1. Some of the plants used in the traditional healing system among the people living in the study area (a. *Aerva javanica* b. *Blepharis ciliaris* c. *Calotropis procera* d. *Commiphora gileadensis* e. *Rhazya stricta* f. *Rumex vesicarius* g. *Ziziphus spina-christi* h. *Ricinus communis* i. *Salvadora persica* j. AlMahalah k. AlMatan l. AlFatiha Village.

