

Revealing ethnomedical knowledge: perspectives from quantitative and sociodemographic data

Wenjun Li^{a,*}, Tong Liu^b, Tauseef Anwar^{c,*}, Huma Qureshi^d & Rabia Rehman^c

^aSchool of History Culture and Tourism, Hanjiang Normal University, Shiyang, 442000, China

^bState Assets and Laboratory Management Office (Procurement and Bidding Management Office), Hanjiang Normal University, Shiyang, 442000, China

^cDepartment of Botany, The Islamia University of Bahawalpur, Bahawalpur 63100, Punjab, Pakistan

^dDepartment of Botany, University of Chakwal, Chakwal 48800, Punjab, Pakistan

*E-mail: tauseef.anwar@iub.edu.pk; liwenjunhjnuedu@163.com

Received 20 February 2025; revised 19 January 2026; accepted 02 February 2026

Supplementary Data

Supplementary Table S1 — Complete Novelty Index and Ethnobotanical Profile of Medicinal Plants Documented in Muzaffargarh District

Botanical Name	Voucher #	Local Name	Family	Life Span	Plant Habit	PU	Rec.	App.	N
<i>Abutilon indicum</i> (L.) Sweet	201/Botany	Peeli boti	Malvaceae	Perennial	Shrub	Leaves, Roots, Seeds	Powder, Paste	Used to cure cancer and typhoid	6
<i>Leucaena leucocephala</i> (Lam.) de Wit	232/Botany	Jumbey, keekar	Fabaceae	Perennial	Legume	Seeds, Leaves	Powder, Paste	Used to cure diabetes and urinary disorders	8
<i>Vachellia nilotica</i> (L.) P.J.H.Hurter & Mabb.	233/Botany	Babul, Keekar	Fabaceae	Perennial	Tree	Roots, Fruit, Bark, Seeds	Decoction, Gum	Used to cure fever and wounds	5
<i>Achyranthes aspera</i> L.	204/Botany	Puthkanda	Amaranthaceae	Perennial	Herb	Whole plant, Stem	Decoction, Paste	Used to cure asthma and cough	8
<i>Calotropis gigantea</i> (L.) Dryand.	205/Botany	Ak	Apocynaceae	Perennial	Shrub	Leaves, Root bark, Stem	Milk, Juice, Paste	Used to cure wounds and inflammation	6
<i>Capparis decidua</i> (Forssk.) Edgew.	206/Botany	Karir	Capparaceae	Perennial	Tree	Fruit, Whole plant	Paste	Used to cure wounds, dysentery, and asthma	9
<i>Lysimachia arvensis</i> (L.) U.Manns & Anderb.	240/Botany	Bili booti	Primulaceae	Annual	Herb	Leaves	Decoction, Juice, Infusion	Used to cure jaundice and skin problems	7
<i>Chenopodium album</i> L.	242/Botany	Bathu	Chenopodiaceae	Annual	Weed	Whole plant	Decoction, Juice	Used to cure asthma and liver disorders	3
<i>Chenopodium murale</i> L.	209/Botany	Doshag	Chenopodiaceae	Annual	Weed	Whole plant	Decoction, Juice	Used to cure fever and respiratory issues	5
<i>Cirsium arvense</i> (L.) Scop.	210/Botany	Leu	Asteraceae	Perennial	Herb	Leaves, Roots	Decoction, Juice, Infusion, Powder	Used to cure fever and inflammation	9
<i>Citrullus colocynthis</i> (L.) Schrad.	211/Botany	Kortumma	Cucurbitaceae	Perennial	Vine	Fruit, Seeds	Decoction, Juice, Infusion, Powder	Used to cure asthma	2

... Contd.

Supplementary Table S1 — Complete Novelty Index and Ethnobotanical Profile of Medicinal Plants Documented in Muzaffargarh District

Botanical Name	Voucher #	Local Name	Family	Life Span	Plant Habit	PU	Rec.	App.	N
<i>Convolvulus arvensis</i> L.	212/Botany	Waloor, wan weri	Convolvulaceae	Perennial	Climbing weed	Roots, Flowers	Decoction, Juice, Infusion, Powder	Used to cure spider bite, fever, wounds	8
<i>Cynodon dactylon</i> (L.) Pers.	251/Botany	Khabal, Bahm grass	Poaceae	Perennial	Creeping herb	Roots, Rhizome	Decoction, Juice, Paste	Used to cure cough and headaches	9
<i>Dactyloctenium aegyptium</i> (L.) Willd.	214/Botany	Madhana grass	Poaceae	Annual	Weed	Leaves, Seeds	Paste, Poultice	Used to cure skin problems, headache, eye ailments	6
<i>Euphorbia chamaesyce</i> L.	215/Botany	Washa, ghaa	Euphorbiaceae	Annual	Herb	Whole plant	Decoction, Juice, Infusion, Powder, Paste	Used to cure wounds and inflammation	8
<i>Ficus benghalensis</i> L.	253/Botany	Bohr, Barghad	Moraceae	Perennial	Tree	Latex, Whole plant	Latex, Milk	Used to cure wounds and inflammation	4
<i>Ficus populifolia</i> Vahl.	217/Botany	Peepal	Moraceae	Perennial	Tree	Bark, Latex	Decoction, Juice, Infusion	Used to cure diabetes and asthma	9
<i>Moringa oleifera</i> Lam.	218/Botany	Sohanjna	Moringaceae	Perennial	Tree	Flowers, Leaves, Fruit	Decoction, Juice, Powder	Used to cure fever, diabetes, inflammation	8
<i>Nicotiana plumbaginifolia</i> Viv.	219/Botany	Babolan	Solanaceae	Annual	Herb	Whole plant	Paste	Used to cure wounds, piles, and skin disorders	6
<i>Solanum nigrum</i> L.	220/Botany	Mako, Peelu	Solanaceae	Annual	Herb	Roots, Fruit, Bark	Decoction, Juice, Infusion, Paste, Tea	Used to cure spider bite, diabetes, wounds, dysentery	7
<i>Peganum harmala</i> L.	221/Botany	Harmal	Nitrariaceae	Perennial	Herb	Roots	Decoction, Powder	Used to cure asthma and kill lice	9
<i>Paliurus spina-christi</i> Mill.	222/Botany	Choti beri	Rhamnaceae	Perennial	Tree	Fruit, Leaves, Bark	Decoction, Juice, Infusion, Paste	Used to cure fever, wounds, eye ailments	8
<i>Portulaca oleracea</i> L.	223/Botany	Kulfa, Purslane	Portulacaceae	Annual	Herb	Leaves, Seeds	Paste, Poultice	Used to cure typhoid and fever	6
<i>Rumex obtusifolius</i> L.	224/Botany	Bitter-dock	Polygonaceae	Perennial	Herb	Seeds, Roots	Decoction, Juice, Tea	Used to cure diabetes, wounds, burns, cough	5
<i>Persicaria maculosa</i> Gray	259/Botany	Bhangra	Polygonaceae	Annual	Herb	Leaves, Stem	Paste, Powder	Used to cure headaches; applied as cosmetic (eye kajal)	9
<i>Taraxacum officinale</i> F.H.Wigg.	270/Botany	Dandelion	Asteraceae	Perennial	Herb	Whole plant	Paste	Used to cure acne and cancer	7
<i>Tribulus terrestris</i> L.	280/Botany	Pakhra	Zygophyllaceae	Annual	Herb	Leaves, Fruit, Roots	Decoction, Juice, Infusion, Powder	Used to cure eye problems and fever	8
<i>Zaleyapentandra</i> (L.) C. Jeffrey	300/Botany	Lunak	Aizoaceae	Perennial	Herb	Roots, Leaves	Decoction, Paste, Powder	Used to cure cough and respiratory infections	4

*Abbreviations: PU. Part used, Rec. Recipe, App. Mode of application, UV. Use value, N. Absolute number of informants