Ethnobotany of medicinal plants in Surghar Range of Pakistan

Sarvat Rahim, Amin Shah and Shahid Iqbal

Correspondence

Sarvat Rahim[1*], Amin Shah[1*] and Shahid Iqbal[2]

[1]Department of Botany, University of Sargodha, Sargodha, PO Box 40100, Pakistan; sarvat.rahim@uos.edu.pk (S.R.); aminullah.amin@uos.edu.pk (A.S.)
[2]Department of Chemistry, University of Education Lahore, Faisalabad Campus, PO Box 38000, Pakistan

[*]Corresponding Author: aminullah.amin@uos.edu.pk, sarvat.rahim@uos.edu.pk

Ethnobotany Research and Applications 26:6 (2023) - http://dx.doi.org/10.32859/era.26.6.1-72
Manuscript received: 31/05/2023 – Revised manuscript received: 08/07/2023 - Published: 13/07/2023
3/07/2023

Research

Abstract

Background: This comprehensive ethnobotanical study was undertaken for the first time to explore and document the medicinal plants used by the indigenous ethnic communities of Surghar Range, Pakistan. The study area is situated adjacent to Salt Range, which lies on the most southern part of Himalayan Ranges in Pakistan. Despite occurrence of so many medicinal plants, culture history and herbal medicines used among the indigenous communities, no explicit ethnobotanical studies are available from this unique region because the field of ethnobotany is still getting mature day by day in Pakistan.

Methods: Semi-structured questionnaires, open interviews and field surveys were used to collect data on medicinal plants and demography from March 2017 to September 2020 from 500 informants by using different quantitative indices viz. relative frequency citation (RFC), use value (UV), informant census factor (ICF), Jaccard Index (JI) and family use value (FUV) to analyze the data.

Results: A total of 417 plants belonging to 89 families were documented that are ethnobotanically used by ethnic communities. Most herbal remedies were used in the form of decoction (33%). ICF values indicate that cardio-vascular complaints ranked (0.7) followed by ENT diseases (0.6). Species like *Berberis lyceum*, *Forsskaolea tenacissima, Kickxia ramosissima, Momordica balsamina, Monotheca buxifolia, Pseudogaillonia hymenostephana, Rumex vesicarius, Ocimum americanum, Schweinfurthia papilionacea* and *Viola cinerea* would be interesting targets for drug discovery and are suggested for further investigations.

Conclusions: Current study revealed that the study area has sufficient indigenous knowledge on medicinal plants used by the aboriginal people. Their traditional knowledge about medicinal plants must be validated with phytochemical and pharmacological screening to determine bioactive compounds and needs to be preserved.

Keywords: Medicinal plants; Jaccard Index; Surghar Range; Cardio-vascular; Menyanthaceae

Background

Ethnobotanical knowledge of aboriginal people is in practice since the birth of human civilization and is almost intact since then (Heinrich & Gibbsons 2001; Pieroni & Quave 2005; Ladio *et al*. 2007). The use and dependency of herbal drugs has increased because of their least side effects and natural response to body systems (Yuan *et al.* 2016). Ethnomedicinal studies (based on the knowledge of traditional people) are inevitable to design new drugs (Vitalini *et al.* 2013; Heinrich & Gibbon 2001; Mesfin *et al.* 2009). Mutualism among ethnobotanists, ethnopharmacologists and phytochemists has played a key role in plant research regarding drug discovery (Gilani 2005). The exact number of documented medicinal plants on earth is not clear (Schippmann *et al.* 2002). However, the approximate number of reported medicinal plant species ranges from 35,000 to 53,000 (Farnsworth & Soejarto 1991) or 70,000 (Schippmann *et al.* 2002).

Pakistan has a unique geographical position with four different seasons that is very suitable for conducting such valuable studies. About 600 to 700 medicinal plants in Pakistan have potential medical value out of known ca. 6000 taxa in Pakistan (Shah & Rahim 2017). According to Haq (1983), in Pakistan (Asia) ca. 600 species of medicinal plants are identified and documented, but only 12% of the documented species are used medicinally by 60% of the population especially in the rural communities, while according to Ahmad & Hussain (2008), ca. 456 medicinal plant species have been in practically used to formulate about 350 drugs to cure various ailments and diseases. So far many ehnobotanical investigations have been done by different researchers globally as well as in Pakistan (Shah *et al.* 2017, 2019; Sargin 2015; Gilani & Attaur Rahman 2005; Hussain *et al.* 2008; Lev & Amar, 2002; Qureshi *et al.* 2006, 2009; Ahmad & Hussain 2008; Khan *et al.* 2013 Jamila & Mostafa 2014; Samoisy & Mahomoodally 2015; Ullah *et al.* 2013; Ahmed *et al.* 2014; Shah & Rahim 2017; Ahmad *et al.* 2015; Malla *et al.* 2015; Said *et al.* 2002; Idu & Iyamah 2015; Kose *et al.* 2015, Baydoun *et al.* 2015; Zheng *et al.* 2013). But a lot of cultures and many remote areas in Pakistan exist where no ethnobotanical expeditions have been done and the field of ethnobotany is still in virgin phase and secondly such areas are inaccessible due to local constraints (Shah *et al.* 2019). Albeit some ethnobotanical reports (Shah *et al.* 2017; Shah *et al.*2018*;* Shah *et al.* 2019) exist, to explore indigenous knowledge relating to the utilization of medicinal plants. Keeping in view the above facts, the study was, therefore, conducted to document indigenous knowledge about medicinal plants used by the ethnic people to treat human in the Surghar Range, Pakistan.

Materials and Methods

Study area

The Surghar Range is the outermost extension of the Trans-Indus Salt Ranges of North Pakistan and appears as an arcuate mountain belt, forming the south-eastern proximity of Kohat plateau and Bannu Basin, touching Kalabagh Hills towards the east (Powel 1979; Ali *et al.* 2014) (Figure 1.). The study area lies between longitudes 71°-72° E and latitudes 31°-32° N with an altitude ranging from 400 m to 1400 m. “Sur” Pashto word for “Red” and “Ghar” for “Mountain”, since the general appearance of these mountains is reddish. Kurd Sharif and Sho are the highest peaks of the Range with an elevation of about 1400 m similar to the geo-climatic conditions of Muree Hills. The River Kurram touches the Surghar Range at Dara Tang, while the River Indus touches the Range at Kalabagh.

The average and annual temperature of Surghar Range varies with altitude. June-July being the hottest months when average temperature is 50° C in lowland areas (valleys), while pleasant weather prevails at the sites of Kurd Sharif and Sho with an average temperature of 25° C in the same months (Shah *et al.* 2012). Temperature falls to freezing point in most of the areas of Surghar Range during December and January and remains below 10°C. The population of the study area is quite spared and distributed in patches with diverse castes and races. The prominent and established ethnic tribes are Khattak (pashtoon), Niazi and Maidan wal. People are mostly Pashto speaking in tribal communities of Khattak tribes while Saraiki mix with Pashto prevails among peoples of valleys of the Range. Khattak tribes wear a special dress known as ghagra and parrdook (partug) with drawstring. Livelihood of the inhabitants is mostly associated with coal-mining and silica trade while nomadic people rear herds of sheep and goats (Figure 2).

Data collection associated with the field and household survey

An ethnobotanical study was conducted in the hotspot sites of the Surghar Range viz. Mitha Khattak, Makerwal, Lumshiwal, Karandi, Mala Khel, Gulla Khel, Kurd Sharif, Kutki, Chichali and Kalabagh. The data was collected from March 2017 to September 2020. A combination of participatory observation and ethnobotanical tools associated with sample and data collection were utilized in the ethnobotanical research. Using the Participatory Rapid Appraisal Approach (PRA), a total of 500 local individuals, including shepherds, herdsmen and traditional healers (herbalists) with deep traditional indigenous

knowledge were selected (Cotton 1996; Martin 1995). PRA provided a helpful perspective on many aspects and experiences of local people with traditional remedies.

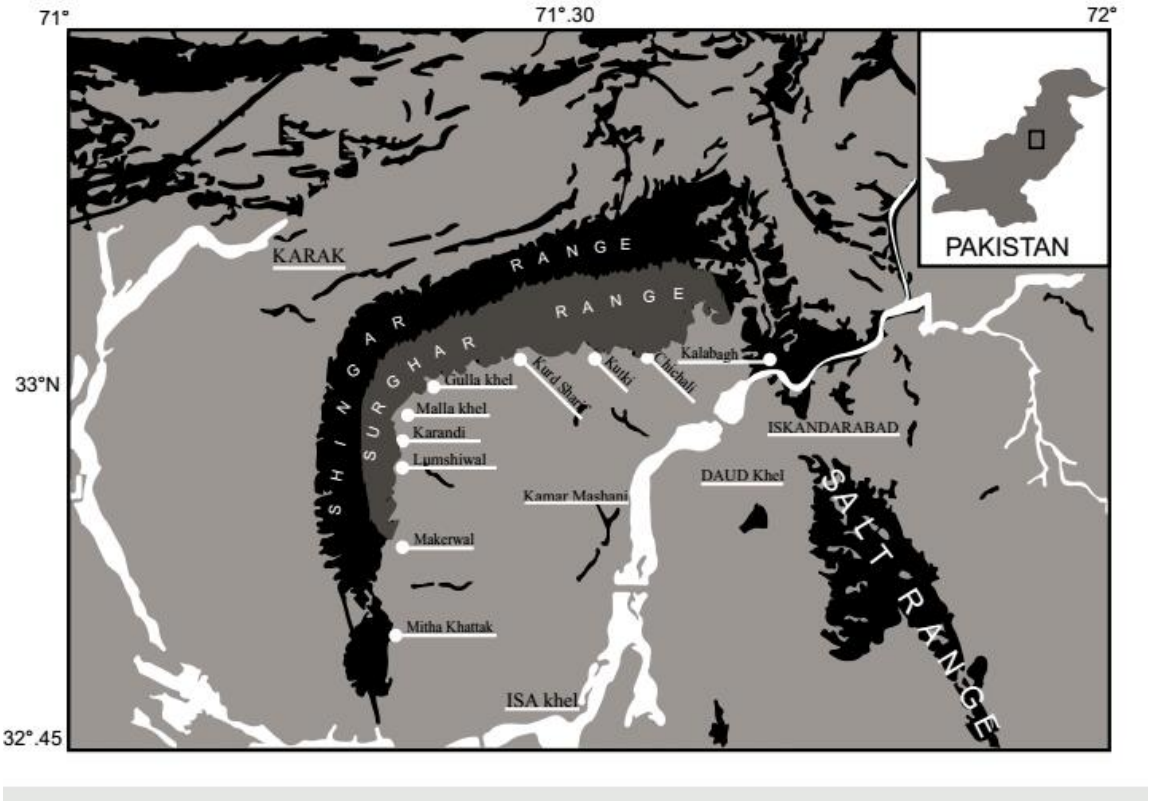

Figure 1. Map of the study area- Surghar Range, Pakistan.

Figure 2. Hot spot biodiversity sites of the study area- Surghar Range, Pakistan.

We were able to develop pre-emptive concerns that were relevant to the community but unknown to the investigators because of the informal gatherings and open-ended talks (Miles & Huberman 1994). First of all survey of the study site was done during which cultural and botanical diversity was documented (covering all the seasons) along with various livelihood sources and diverse ethnobotanical aspects. For this purpose, simple random sampling, well-designed semi-structured questionnaires, group discussion with local inhabitants, households, herbalists, healers and participatory observations. Information was collected on different parts of wild vegetation used for different remedies by the local inhabitants. A concise questionnaire was not only in English but also in the versions of local languages to document the folk knowledge. After collection of the detailed information it was incorporated into the excel sheet to develop a list of medicinal species found in the study area with their ethnobotanical uses.

Collection, identification and preservation of plants

Plant specimens and their medicinal parts were collected from the study area during the field survey. These samples were tagged with their local names in the field. The mystifying plant species were confirmed with the help of the local elders. The scientific names of collected plant specimens were identified following the Flora of Pakistan (Nasir & Ali 1995-2002). The names were further updated after verification from the online website of 'World Flora Online (WFO)'

(https://worldfloraonline.org.). Voucher specimens were preserved and deposited in the Herbarium of the Botany Department, University of Sargodha, Pakistan for future reference.

Ethnobotanical data analysis

The collected data were entered in MS Office Excel 2013 to analyze the information regarding plant rankings (family, genus and species), part used, preference of the locals and plant forms. Data were expressed in terms of number and percentage. Graphs and pie-charts were made from the qualitative data. To calculate the significance of the documented medicinal plant species, the collected data was further analyzed by using ethnobotanical indices viz. relative frequency citation (RFC), use value (UV), informant census factor (ICF), Jaccard Index (JI) and family use value (FUV).

Relative-frequency-citation (RFC)

The RFC value of the plant taxa being utilized by the indigenous people was calculated by applying the formula (Tardio & Pardo-de-Santayana 2008):

$$RFC= \frac{\text{numbers of times a particular species was mention}}{\text{total number of times that all species were mentioned}} \times 100$$

By using the following formula, RFC index value was mathematically resolved:

$$RFCs = \frac{FC}{N} \ (0<RFC<1)$$

Use-report (UR) and Use-value (UV)

The UV (quantify the relative importance of a useful taxon that is known by the local people). It was calculated by using the formula given by Phillips *et al.* (1994):

$$UV=\Sigma\frac{U}{n} \ \textit{where,}$$

"*U*" is the number of reports/information collected from each informant for a single species and "*n*" is the total number of informants interviewed for a given species.

Family use value (FUV)

According to Cadena- González *et al.* (2013) FUV, determines the importance of a plant family by the formula: F

$$FUV=UVs/ns$$

where,

UVs mean 'use-values-of-the species' and ns mean 'total number of species' within each family'.

Informant census factor (ICF)

ICF value was determined by Trotter & Logon (1986) and was calculated by using the formula:

$$ICF= Nur\text{-}N_{t/} \ N_{ur\text{-}1}$$

N_{ur} refers to the total use-reports (UR) about any kind of ailment while N_t refers to the total plant species/ taxa that was used for that purpose. Here, every report of the use of a plant species was considered as one use-report. The ICF-values ranged from between 0 to 1, where "1" describes the highest level of informant agreement (Gazzaneo *et al.* 2005).

Jaccard Index (JI)

González-Tejero *et al.* (2008) used this index for data analysis in ethnobotanical studies and designed the mathematical equation as:

$$JI= c\times100/ a+ b+ c$$

where,

"a" is the recorded number of species of the study area "A" (here, Surghar Range)

"b" is the number of species cited by the indigenous community "B"

"c" is the number of species reported by both "A" and "B" indigenous communities

Results

Socio-demographic status of the informants and ethnobotanical knowledge

A total of 500 local informants, including household, herbalists, healers (321 men, 179 women) were interviewed to collect data on medicinal application from ten hotspot sites (viz. Mitha Khattak, Makerwal, Lumshiwal, Karandi, Mala Khel, Gulla Khel, Kurd Sharif, Kutki, Chichali and Kalabagh) of Surghar Range without regard to gender. It was observed that females were usually reluctant to participate and share information because of Islamic mitzvah and secluded environment. The informants were divided into six age groups (Table 1). In terms of education, the majority of respondents (20.6%) were matriculates. It was quite astonishing to know that local healers treat people using medicinal plants free of cost and also share their skill open-heartedly with others.

Table 1. Socio-demographic characteristics of informants (N=500).

Characteristics	Number	percentage
Age		
25..34	74	14.8
35..44	75	15
45..54	83	16.6
55..64	79	15.8
65..74	104	20.8
75 & above	85	17
Gender		
Male	321	64.2
Female	179	35.8
Education		
Illiterate	71	14.2
Primary	89	17.8
Middle	82	16.4
Matric	103	20.6
Inter	94	18.8
Graduate	45	9
Postgraduate	16	3.2

Diversity and life form of medicinal plants

A total of 417 taxa with 89 families were explored from the study site. All species were identified, and their ethnobotanical information was interpreted. All documented taxa are arranged in alphabetical orders along with common names (if known to the locals), life forms, parts used, utilization methods, ethnobotanical uses reported by inhabitants are presented in (Table 2). The comparison of the present study was done with the previously conducted studies from Pakistan and other regions Table 2. Among the reported plant taxa Fabaceae (Leguminosae) ranked first (47 species) accompanied by Asteraceae (Compositae) (34), Lamiaceae (24), Apocynaceae (17), Plantaginaceae (16), Chenopodiaceae, Euphorbiaceae, Malvaceae and Brassicaceae (14 species each) followed by Amaranthaceae (12), Convolvulaceae and Solanaceae (10 spp. each) where 76 families contribution was less than ten spp. each**.** From the study it was observed that high percentage of life form from cited were herbs (69%) followed by shrubs (15%), trees (13%), lianas and climbers 3% each (Figure 3).

Parts used, preparations and mode of utilization

Among the reported plant parts, leaves were the most utilized part with 30%, followed by the whole plant (18%), seeds, fruits and aerial parts (11% each), flower(5%), bark (4%), root, young twigs , pods and stem (2% each) respectively. The least presented percentage was observed for inflorescence and husk (1% each) (Figure 4). Most commonly used mode of utilization reported in the study was decoction (33%), followed by infusion (21%), Raw form (13%), Paste (7%), cooked and powder (5% each), poultice (4%), concoction and latex (2% each), Extract, juice and smoke (1% each) (Figure 5). (Table 6. Supplementary file)

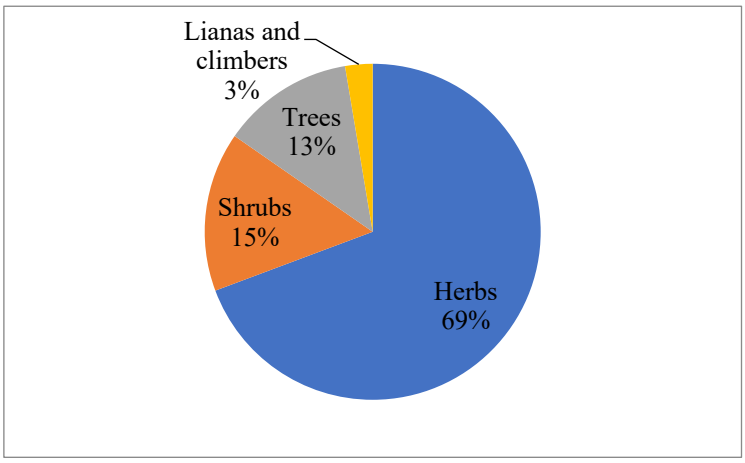

Figure 3. Life form of reported medicinal plants.

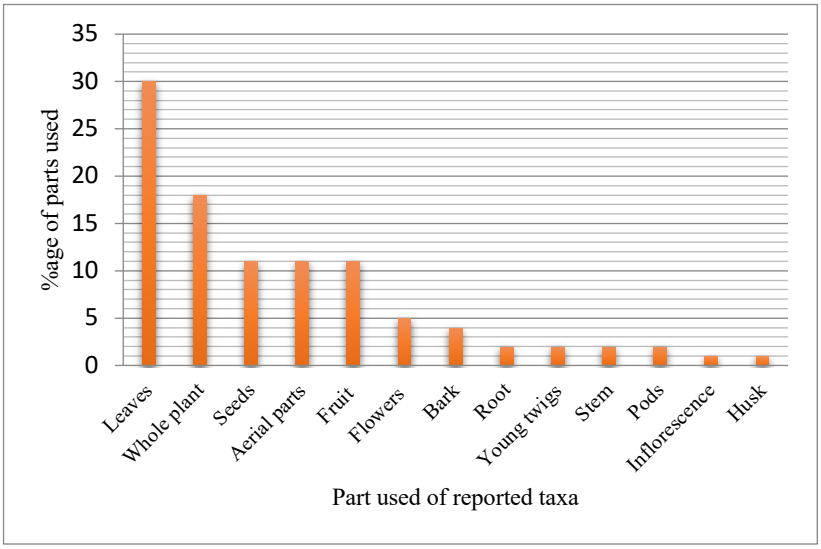

Figure 4. Part(s) used of medicinal plants

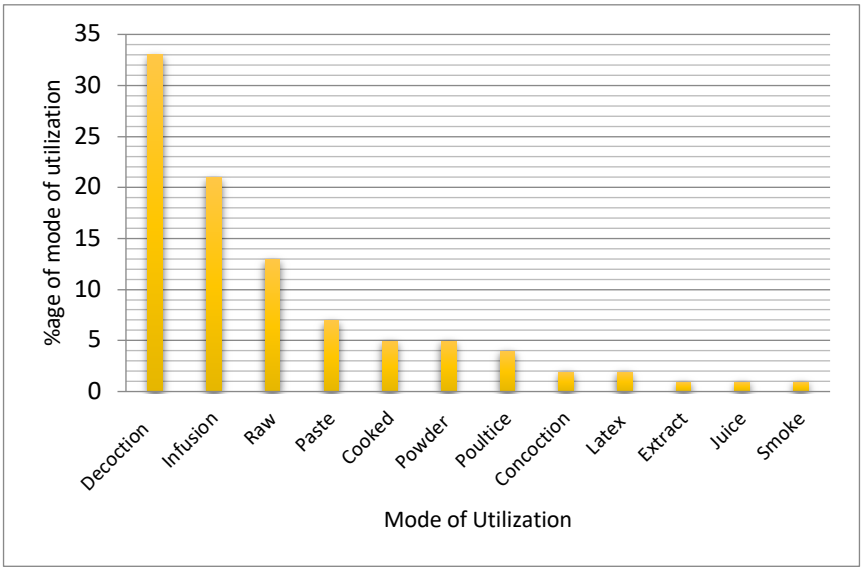

Figure 5. Utilization mode(s) of reported taxa.

Quantitative data analysis

The ethnobotanical quantitative indicators viz. relative frequency citation (RFC), use value (UV), informant census factor (ICF), Jaccard Index (JI) and family use value (FUV) were used to assess homogeneity in the traditional knowledge of medicinal plants utilized by the people of the Surghar Range.

RFC and UV of documented medicinal plants

The RFC value ranges from 0.13 to 0.002. When plant is known to many informants for any ailment category the increase in RFC value is observed. This may be due to the efficacy of plants reported in the area. The use value of medicinal plant species ranges from 0.77 to 0.02. The medicinal values, RFC values and comparative analysis of these plant species with selected previous literature is mentioned in (Table 2).

FUV of documented plants families

The FUV values ranges from (0-0.6) for different families (Table 3). During this study it was observed that family with highest FUV value was Menyanthaceae (FUV=0.6) with one plant species (*Nymphoides peltata*). The uses for the plant reported by the inhabitants of the study area include, epilepsy, febrifuge and body pain. The second highest FUV was reported for family Combretaceae and Salviniaceae (FUV=0.55 each) with number of plants species one and two respectively followed by family Araceae (FUV= 0.54) with four plant species (Table 2). The FUV was reported zero for family Cyperaceae.

Plate No. 1. *Olea ferruginea*

Plate No. 2. *Monotheca buxifolia*

Plate No. 3. *Nannorrhops ritchiana*

Plate No. 4. *Ziziphus nummularia*

Plate No. 5. *Caralluma tuberculata*

Plate No. 6. *Acacia nilotica*

Plate No. 7. *Ziziphus maritiana*

Plate No. 8. *Viola cinerea*

Plate No. 9. *Ziziphus oxyphylla*

Plate No. 10. *Rhazya stricta*

Plate No. 11. *Phoenix sylvestris*

Plate No. 12. *Withania coagulans*

Plate No. 13. *Salvadora oleoides*

Plate No. 14. *Capparis decidua*

Plate No. 15. *Peganum harmala*

Figure 6. (Plate No. 1-30) Highly cited medicinal plants of the study area.

Plate No. 16. *Datura stramonium*

Plate No. 17. *Eruca sativa*

Plate No. 18. *Grewia tenax*

Plate No. 19. *Tamarix dioica*

Plate No. 20. *Datura metel*

Plate No. 21. *Tamarix aphylla*

Plate No. 22. *Pseudogaillonia hymenostephana*

Plate No. 23. *Calotropis procera*

Plate No. 24. *Mentha longifolia*

Plate No. 25. *Plantago ciliata*

Plate No. 26. *Salvadora persica*

Plate No. 27. *Ocimum americanum*

Plate No. 28. *Malva parviflora* Plate No. 29. *Solanum xanthocarpum* Plate No. 30. *Schweinfurthia papilionacea*

Figure 6. (Plate No. 1-30) Highly cited medicinal plants of the study area.

Complaint kinds and ICF

According to the documented use reports of plants, the ailments treated by plants were classified into various categories. The ailments were grouped into 23 categories of diseases. The quantitative index ICF was applied and its value ranges from (0-0.7) in the study (Table 4). The complaints categories for different diseases include cardiovascular complaints, ear, nose and throat problems (ENT), neurological complaints, musculoskeletal complaints, gastrointestinal complaints, antidote, tonic, dermatological complaints, kidney complaints, hair care, gynecological complaints, respiratory complaints, oral and dental complaints, liver complaints, urogenital complaints, eye ailments, fever, infectious complaints, pain, piles, oncology and diabetes. However some reported uses and types of complaints like dizziness, immunity, Insomnia, sedative, Somnifacient, amentia, cooling effect, deodorant, Obesity, evil eye did not match with these broad classes, so they are placed in a separate group (others).

Comparative analysis and Jaccard Index (JI)

As this is the first quantitative study of ethnobotanical and medicinal uses of plants are reported form study area. To understand, determine and conclude that whether the reported medicinal plants by the inhabitants of Surghar Range communities are formerly stated for ethnomedicinal or ethnobotanical purpose or not, a literature survey on ethnomedicinal and therapeutic values of plants was done, and comparative results were mentioned in Table 2. A total of nineteen research articles published from 2010 and onward with at least more than 80 reported plant species were selected to equate the data collected during the study. The percentage of similarities and dissimilarities of uses and similarity index (JI) was calculated and mentioned in Table 5. In this study the percentage of similar uses ranges from zero percent to 33.2 % while dissimilarities of uses vary from 1.4% to 34.4%.

Table 2. Floristic list and quantitative analysis of the taxa of Surghar Range, Pakistan

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Acanthaceae	*Barleria acanthoides* Vahl s s/ Sabz chiraita/ SV-031	Herb	Whole plant/ decoction	Respiratory problems	5	0.01	1	0.2	1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Acanthaceae	*Barleria cristata* L./ Gokhran SV-052	Shrub	Stem, leaves/ decoction	Body pain, febrifuge, dentalgia, amentia	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Acanthaceae	*Blepharis prionotis* L./ Muzgan booti/ SV-057	Herb	Leaves/ infusion, powder	Antifungal , inflammation, wound healing, hemorrhoids, eyesight	12	0.02	5	0.42	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Acanthaceae	*Justicia adhatoda* L./ Bhaikarr/ SV-231	Shrub	Aerial parts, leaves/ decoction	Respiratory problems, chest infection	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7■, 8*, 9■, 10*, 11*, 12*, 13▲, 14▲, 15*, 16*, 17*, 18*, 19*
Acanthaceae	*Justicia heterocarpa* T. Anderson/ Angrezi jamal ghota/ SV-232	Herb	Leaves/ infusion	Laxative, purgative, Constipation	10	0.02	3	0.3	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Acanthaceae	*Peristrophe bicalyculata* (Retz.) Nees / Unknown SV-334	Herb	Leaves / cooked	Ear and nose problems, venomous bites, wound healing	7	0.01	3	0.42	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Acanthaceae	*Ruellia tuberosa* L./ Pattaki/ SV-384	Herb	Whole plant/ infusion	Cancer, body pain, liver problems, diuretic,	18	0.04	4	0.22	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Acoraceae	*Acorus calamus* L./ Meethi mehndi/ SV-008	Herb	Leaves/ decoction, concoction, Steam	Decongestant, expectorant, febrifuge, body pain, Cephalalgia	16	0.03	5	0.31	1*, 2■, 3*, 4*, 5■, 6*, 7■, 8*, 9■, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Aizoaceae	*Trianthema portulacastrum* L./ It-sit/ SV-459	Herb	Whole plant/ infusion, decoction	Diuretic, kidney problems, gastralgia and gripe	19	0.04	4	0.21	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14■, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Alismataceae	*Sagittaria latifolia* Willd./ Unknown/ SV-394	Herb	Root, rhizome/ cooked	Constipation, tonic	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Achyranthes aspera* L./ Puth kanda/ SV-007	Herb	Leaves/ paste, decoction	Stings, antidote, flu, inflammation	15	0.03	4	0.26	1*, 2*, 3*, 4*, 5* 6■, 7*, 8■, 9▲, 10*, 11*, 12▲, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Aerva javanica* Juss./ Booyii/ SV-010	Herb	Whole plant/ raw, decoction	Bechic, febrifuge, ulcer, antidote, diuretic	21	0.04	5	0.23	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Aerva lanata* (L.) Juss./ Boyi/ SV-011	Herb	Leaves/ decoction, infusion	Febrifuge, Body pain, Gall bladder stones	13	0.03	3	0.23	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12■, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Alternanthera pungens* Kunth / Khaki booti/ SV-022	Herb	Whole plant /concoction	Respiratory problems, dysmenorrhea	9	0.02	2	0.22	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8■, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Alternanthera sessilis* (L.) DC./ Guroo booti SV-023	Herb	Whole plant/ concoction	Asthma, febrifuge, body pain	15	0.03	3	0.2	1*, 2*, 3*, 4*, 5▲, 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Amaranthus caudatus* L./ Araishi batho SV-024	Herb	Leaves/ decoction	Cardiotonic, bronchitis, laxative	22	0.04	3	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Amaranthus graecizans* L./ Batho/ SV-025	Herb	Leaves/ cooked, decoction, paste	Gastrointestinal problems, febrifuge, scorpion bite, snake bite, skin rashes, mastitis	22	0.04	6	0.27	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Amaranthus spinosus* L./ Batho/ SV-026	Herb	Leaves/ decoction	Body pain, cephalalgia, nausea	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13▲, 14*, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Amaranthus viridis* L./ Batho/ SV-027	Herb	Leaves/ cooked	gripe, constipation	12	0.02	2	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12▲, 13■, 14▲, 15*, 16*, 17*, 18*, 19■

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Amaranthaceae	*Digera muricata* Mart./ Khabal/ SV-153	Herb	Whole plant/ infusion	Gastrointestinal disorders, diuretic	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Halothamnus bottae* Jaub. & Spach/ Khaar booti/ SV-209	Shrub	Aerial parts/ infusion, decoction	Ethnoveterinary, hair tonic, skin problems	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Amaranthaceae	*Pupalia lappacea* (L.) Juss./ Gol puth kanda/ SV-374	Herb	Aerial parts/ infusion	Jaundice, cooling effect	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Apiaceae	*Bunium persicum* B. Fedtsch./ Kali jeeri/ SV-064	Herb	Leaves/ infusion, decoction	Respiratory disorders, body pain, jaundice, asthma, cardiotonic	14	0.03	5	0.35	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apiaceae	*Ammi majus* L./ Jangli gajor/ SV-028	Herb	Seeds, leaves/ decoction, raw infusion, steam	Abdominal discomforts, Obesity, anxiety, gynecological problems	18	0.04	4	0.22	1*, 2▲, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apiaceae	*Anethum graveolens* L./ Soya/ SV-032	Herb	Seeds/ concoction , infusion, powder	Obesity, gastralgia and gripe, liver problems, fatigue, anxiety	12	0.02	6	0.5	1*, 2▲, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17▲, 18*, 19*
Apiaceae	*Apium graveolens* L./ Jangli salad/ SV-034	Herb	Seeds/ decoction, concoction, powder	Obesity, diabetes, gastrointestinal problems, post-partum menstrual problems	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19▲
Apiaceae	*Centella asiatica* (L.) Urb./ Brahmi booti/ SV-093	Herb	Seeds/ infusion, decoction	Liver problems, hepatitis, jaundice, body pain	13	0.03	4	0.31	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9▲, 10▲, , 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apiaceae	*Coriandrum sativum* L./ Saunf/ SV-129	Herb	Seeds/ infusion, decoction	Dysentery, diarrhea, nausea, obesity, food essence	19	0.04	4	0.21	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9■, 10■, 11■, 12*, 13*, 14*, 15*, 16*, 17*, 18■, 19▲

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Apocynaceae	*Calotropis procera (*Aiton) Dryand./ Ak/ SV-069	Shrub	Flowers (gynostegium), young twigs, leaves/ raw, latex, poultice, smoke	Malaria, febrifuge, rheumatism, snakebite, scorpion sting, wound healing, antifungal, toothache, asthma	38	0.07	9	0.24	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11■, 12▲, 13▲, 14▲, 15*, 16*, 17*, 18▲, 19▲
Apocynaceae	*Caralluma tuberculata* N.E.Br. / Choogan/ SV-075	Herb	Fruit / raw, juice, cooked	Diabetes, hypertension, depurative, obesity, skin problems	52	0.1	5	0.10	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13▲, 14▲, 15*, 16*, 17*, 18*, 19▲
Apocynaceae	*Carissa carandas* L. / Karonda/ SV-079	Shrub	Fruits/ infusion	Diabetes, diuretic, amentia	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Cryptostegia grandiflora* Roxb. ex R.Br./ Rubber vine/ SV-136	Shruby vine	Leaves/ latex	Wound healing, Emollient	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Leptadenia pyrotechnica* (Forssk.) Decne./ Khipi/ SV-252	Shrub	Stem/decoction , infusion	Sore throat, chest infections, diuretic	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18■, 19*
Apocynaceae	*Nerium oleander* L./ Kanair/ SV-299	Shrub	Young twigs/raw, smoke, extract	Miswak, diabetes, itching, ulcers, tumors, sinusitis	9	0.02	6	0.67	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10▲, , 11*, 12*, 13▲, 14■, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Oxystelma esculentum* (L.f.) Sm./ Unknown/ SV-314	Herb	Flowers/ infusion	Menoxenia	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Pentatropis nivalis* (J.F. Gmel.) D.V. Field & J.R.I.Wood/ Unknown/ SV-327	Liana	Leaves/ poultice	Wound healing, Emollient, gonorrhea	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Apocynaceae	*Pentatropis capensis* (L.f.) Bullock/ Unknown SV-328	Liana	Leaves/ poultice	Wound healing, Emollient	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Pentatropus linearis* Decne./ SV-329	Liana	Leaves/ poultice	Wound healing, Emollient	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Pentatropus oblongifolia* (Costantin) Liede/ Unknown/ SV-330	Liana	Leaves/ poultice	Wound healing, Emollient	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Pentatropus spiralis* (Forssk.) Decne (Syn. *Vincetoxicum spirale* (Forssk.) D.Z.Li / Unknown/ SV-331	Liana	Leaves, roots/ poultice	Wound healing, Emollient	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Pergularia daemia* (Forssk.) Chiov./ Unknown/ SV-332	Herb	Leaves/ infusion, latex	Fatigue, insomnia, epilepsy, purgative, expectorant	7	0.01	5	0.71	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Periploca aphylla* Decne./ Bata/ SV-333	shrub	Stem, roots/ decoction, poultice	Antifungal, respiratory problems, febrifuge, snake bite, skin tumors	32	0.06	5	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13▲, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Rhazya stricta* Decne./ Weinrran/ SV-379	Shrub	Leaves, seeds/ powder , smoke, juice	Diabetes, cooling effect, anxiety, flatulence, hypertension, chest infections, eye infections, round worms	48	0.1	8	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Wattakaka volubilis* Stapf SV-486	Herb	Fruits, leaves/ infusion, paste	Antidote, emetic, skin problems, gynecological problems	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Apocynaceae	*Vincetoxicum sakesarense* Ali & Khatoon SV-482	Climber	Leaves/ infusion, paste	Aphrodisiac, hypertension, antidote , gynecological problems	13	0.03	4	0.31	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Araceae	*Lemna minor* L./ Batakh booti/ SV-249	Herb	Leaves/ infusion	Urinary tract problems	2	0.004	1	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Araceae	*Monstera deliciosa* Liebm./ Paneer plant/ SV-286	Herb	Fruit/ raw	Aphrodisiac	2	0.004	1	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Araceae	*Pistia stratiotes* L./ Pani wali salad/ SV-344	Herb	Whole plant/ infusion	Malaria, febrifuge	3	0.01	2	0.66	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Araceae	*Wolffia microscopica* (Griff.) Kurz/ Unknown/ SV-489	Herb	Whole plant/ infusion	Tonic	2	0.004	1	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Arecaceae	*Nannorrhops ritchieana* (Griff.) Aitch. / Mazri/ SV-296	Tree	Fruits/ raw	Tonic, laxative, hypertension	63	0.13	3	0.05	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Arecaceae	*Phoenix sylvestris* (L.) Roxb./ Khajoor/ SV-337	Tree	Fruit/ raw	Tonic, laxative, dysmenorrhea, abortifacient, fatigue, cardiotonic, aphrodisiac, emaciation	48	0.1	8	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Asparagaceae	*Asparagus adscendens* Roxb./ Suua plant/ SV-491	Herb	Ropes, baskets, mats Roots/ decoction	Gastrointestinal problems, Emollient	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17■, 18*, 19*
Asparagaceae	*Agave americana* L./ Angrezi kanwar gandal/ SV-012	Shrub	Leaves/ latex	Skin problems, wound healing	3	0.01	2	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asphodelaceae	*Aloe barbadensis* Mill. (Syn. *Aloe vera* (L.) Burm.f.)/ Kanwar gandal SV-021	Herb	Leaves/ latex, raw	Skin problems, digestive problems, depurative	15	0.03	3	0.2	1*, 2*, 3▲, 4*, 5* , 6*, 7*, 8*, 9▲, 10*, 11*, 12■, 13▲, 14▲, 15▲, 16*, 17▲, 18*, 19*

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Asphodelaceae	*Asphodelus tenuifolius* Cav./ Piazi/ SV-044	Herb	Seeds, whole plant/ powder, poultice, decoction	Piles, Emollient, gastrointestinal problems, febrifuge	35	0.07	4	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Achillea millefolium* L./ Nakseer plant/ SV-006	Herb	Whole plant/ decoction	Skin problems, gripe, nausea	11	0.02	3	0.27	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15▲, 16■, 17*, 18*, 19*
Asteraceae	*Ageratum conyzoides* Sieber ex Stued./ Billigoat booti/ SV-013	Herb	Roots, leaves, seeds/ infusion, decoction	Joint pain, fever, inflammation	15	0.03	3	0.2	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Artemisia absinthium* L./ Afsanthin/ SV-040	Herb	Aerial parts/ decoction	Dysmenorrhea, rheumatism, body pain	5	0.01	3	0.6	1*, 2*, 3▲, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Artemisia scoparia* Maxim./ Afsanthin SV-041	Herb	Aerial parts/ decoction	Somnifacient, rheumatism	27	0.05	2	0.07	1*, 2■, 3■, 4*, 5* , 6*, 7*, 8■, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16■, 17*, 18*, 19*
Asteraceae	*Artemisia vulgaris* Burm.f. / Afsanthin/ SV-042	Herb	Aerial parts/ decoction	Body pain, febrifuge, Cephalalgia	14	0.03	3	0.21	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Carduus pycnocephalus* L. / Sada leh/ SV-077	Herb	Leaves/ decoction	Menstrual problems, Cephalalgia, hypertension	6	0.01	3	0.5	1*, 2■, 3■, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Carthamus oxyacantha* M. Bieb./ Poli/ SV-080	Herb	Aerial parts/ infusion, decoction	Sore throat, bechic	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Carthamus persicus* Desf. ex Willd./ Jangli zaffran/ SV-081	Herb	Flowers/ decoction	Malaria, febrifuge, tonic, laxative	11	0.02	4	0.36	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19■

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Asteraceae	*Carthamus tinctorius* L./ Zaffran surkh/ SV-082	Herb	Flowers, seeds/ decoction, extract	Menstrual problems, carminative	11	0.02	2	0.18	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Centaurea iberica* Trevir. ex Spreng./ SV-092	Herb	Whole plant/ decoction	Gynecological problems, indigestion, conjunctivitis, aphrodisiac	13	0.03	4	0.31	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10■, , 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Cirsium arvense* (L.) Scop. / SV-105	Herb	Root, leaves/ infusion, raw	Kidney stones, liver problems, gripe, jaundice, obesity	14	0.03	5	0.35	1*, 2▲, 3*, 4*, 5* , 6*, 7*, 8*, 910, 11*, 12*, 13■, 14▲, 15*, 16■, 17▲, 18*, 19*
Asteraceae	*Cirsium vulgare* (Savi) Petr./ Leh/ SV-106	Herb	Leaves/ infusion	Kidney stone, dentalgia	12	0.02	2	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Cichorium intybus* L./ Kasni/ SV-104	Herb	Leaves/ infusion	Kidney stone, diuretic	9	0.02	2	0.22	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Conyza aegyptiaca* Ait. / Makhan booti SV-121	Herb	Leaves/ infusion	Piles, body pain	3	0.01	2	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Conyza canadensis* (L.) Cronquist/ Makhan booti/ SV-122	Herb	Whole plant/ decoction	Piles, body pain	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Eclipta prostrata* Lour. / Bhangra/ SV-163	Herb	Aerial parts/ decoction, paste, infusion	Body pain, rheumatism, malaria, nausea	8	0.02	4	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Echinops echinatus* Roxb./ Ont katara/ SV-162	Herb	Aerial parts/ decoction	Antidote, wound healing, respiratory problems	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5▲, 6*, 7*, 8*, 9▲, 10■, , 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Helianthus annuus* L./ Sooraj mukhi/ SV-212	Herb	Seeds/ oil, raw	Asthma	4	0.01	1	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Asteraceae	*Lactuca dissecta* D.Don/ Jangli salad/ SV-239	Herb	Whole plant/ decoction	Reduce cholesterol level, laxative, tonic, obesity	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17■, 18*, 19*
Asteraceae	*Lactuca serriola* L. SV-240	Herb	Leaves/ smoke	Halitosis, nausea	15	0.03	2	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Launaea capitata* (Spreng.) Dandy/ Chambaili booti/ SV-245	Herb	Whole plant/ decoction	Decongestant, skin problems	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14■, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Launaea massavensis* (Fresen.) Kuntze/ Chambaili booti/ SV-246	Herb	Whole plant/ decoction	Febrifuge, nausea, vomiting, anxiety	6	0.01	4	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Launaea nudicaulis* (L.) Hook.f./ Chambaili booti/ SV-247	Herb	Whole plant/ decoction	Febrifuge, nausea, vomiting, anxiety	7	0.01	4	0.57	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Launaea procumbens* (Roxb.) Amin/ Chambaili booti / SV-248	Herb	Whole plant/ decoction	Febrifuge, nausea, vomiting, anxiety	6	0.01	4	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Pluchea arguta* Boiss./ Pluchia/ SV-352	Herb	Aerial parts/ decoction	Febrifuge, nausea, vomiting, anxiety	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Pulicaria glaucesens* Jaub. & Spach./ SV-373	Herb	Leaves/ infusion	Menstrual problems, respiratory problems	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Silybum marianum* (L.) Gaertn./ Shifa-e-jiggar/ SV-418	Herb	Flowers/ infusion	Insomnia, backache, inflammation	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Asteraceae	*Sonchus asper* (L.) Hill/ Dhodak/ SV-425	Herb	Shoot/ decoction	Cooling effect, tonic, jaundice, liver problems	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17▲, 18*, 19*
Asteraceae	*Sonchus oleraceus* L./ Dhodak SV-426	Herb	Whole plant/ decoction, infusion	Body pain, headache	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Taraxacum laevigatum* DC. (Syn. *Taraxacum erythrospermum* Andrz. ex Besser)/ Dhodak/ SV-450	Herb	Aerial parts / infusion	Rheumatism, Body pain, headache, tonic, diuretic, laxative	9	0.02	6	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, ■ , 16*, 17*, 18*, 19*
Asteraceae	*Taraxacum officinale* F. H. Wigg./ Dhodak/ SV-451	Herb	Aerial parts / infusion	Urinary tract disorders, kidney problems, hypertension	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Cousinia minuta* Boiss./ Kandiari/ SV-472	Herb	Whole plant/ infusion	Urinary tract disorders, kidney problems, hypertension	12	0.02	3	0.25	1*, 2■, 3■, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14■, 15*, 16■, 17*, 18*, 19*
Asteraceae	*Xanthium strumarium* Lour./ Ludhrri/ SV-490	Herb	Whole plant/ decoction, extract	Emollient, wound healing	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Asteraceae	*Conyza alata* (D.Don) Roxb. SV-176	Herb	Aerial parts/ decoction	Gastrointestinal problems, menstrual problems, otitis	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7■, 8■, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Basellaceae	*Basella alba* L./ Angrezi sag SV-053	Herb	Aerial parts/ decoction	Aphrodisiac, gripe, nausea	7	0.01	3	0.42	1*, 2*, 3■, 4*, 5* 6■, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Berberidaceae	*Berberis lycium* Royle/ Zairrr largai/ SV-056	Shrub	Bark, stem / decoction	Hepatitis, kidney stone, febrifuge	32	0.06	3	0.10	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*

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Bignoniaceae	*Haplophragma adenophyllum* Dop (Syn. *Fernandoa adenophylla* (Wall. ex G. Don) Steenis)/ Marror phhali/ SV-210	Tree	Leaves/ decoction	Muscle cramps, menstrual cramps, body pain	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Bignoniaceae	*Tecomella undulata* Seem./ Roheerra SV-452	Tree	Flowers, leaves, bark/decoction, infusion	Hypertension, diuretic, cooling effect, liver problems, depurative	12	0.02	5	0.42	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Boraginaceae	*Anchusa arvensis* (L.) Bieb. / Rattan jot/ SV-030	Herb	Aerial parts/ decoction	Body pain, febrifuge, cephalalgia	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Boraginaceae	*Anchusa aegyptiaca* DC Neeli booti/ SV-202	Herb	Leaves/ decoction	Diuretic, hypertension,	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 19*,, 15*, 16*, 17*, 18*, 19*
Boraginaceae	*Trichodesma amplexicaule* Roth / Neeli booti/ SV-463	Herb	Whole plant/ decoction	Dysentery, malaria, febrifuge	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19■
Brassicaceae	*Capsella bursa-pastoris* Medik./ Charwaha puse booti/ SV-074	Herb	Whole plant/ infusion, decoction	Hypertension, malaria, body pain, uterine bleeding, nose bleeding	10	0.02	5	0.5	1*, 2▲, 3*, 4*, 5▲, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14■, 15*, 16▲, 17*, 18*, 19*
Brassicaceae	*Coronopus didymus* (L.) Sm. (Syn. *Lepidium didymum* L.)/ Jangli sarion/ SV-130	Herb	Leaves/ decoction	Constipation, gastrointestinal problems	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Diplotaxis griffithii* Hook.f. & Thomson/ Charranka/ SV-158	Herb	Whole plant, buds / decoction, cooked	Sore throat, cough, constipation	11	0.02	3	0.27	1*, 2*, 3▲, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Brassicaceae	*Eruca sativa* L. Mill./ Jhamaan/ SV-178	Herb	Seeds, leaves/ oil	Dysmenorrhea, internal wounds and infections, cancer	35	0.07	4	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Iberis amara* L./ Unknown / SV-223	Herb	Whole plant/ concoction	Anti-lice, hair tonic, Antipruritic , ethnoveterinary (antiseptic), anti-dandruff, antifungal, scorbut	42	0.08	7	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Lepidium draba* L. (Syn. *Cardaria draba* Desv.) /Unknown SV-251	Herb	Whole plant, seeds/ decoction, raw	Diabetes, hypertension	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Malcolmia africana* (L.)W.T.Aiton Unknown/ SV-264	Shrub	Seeds/ raw, powder	Diabetes, hypertension	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Nasturtium officinale* R.Br./ Pani wali gobhi/ SV-297	Herb	Leaves, seeds/ raw, powder	Menstrual problems, body pain, constipation	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Sisymbrium erysimoides* Desf./ Jangli jamyian SV-419	Herb	Aerial parts, seeds / decoction	Menstrual problems, vomiting	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Sisymbrium irio* L./ SV-420	Herb	Aerial parts, seeds/ decoction, powder	Piles, constipation, obesity	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Farsetia arabica* Boulous/ Unknown / SV-192	Herb	Leaves/ decoction	Constipation, piles, hypertension, obesity	6	0.01	4	0.66	1*, 2*, 3▲, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13▲, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Brassicaceae	*Farsetia edgeworthii* Hook.f. & Thomson (Syn. *Farsetia aegyptia* subsp. Edeworthii Hook. f. & Thomson) Jonsell./ Jangli dal/ SV-193	Herb	Leaves/ decoction	Earache, skins problems	25	0.05	2	0.08	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Physorrhynchus brahuicus* Hook./ SV-343	Herb	Leaves, stem, seeds/ extract, paste	Antiaphonic, respiratory problems, febrifuge	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Brassicaceae	*Chorispora tenella* DC. SV-101	Herb	Leaves, seeds/ raw, decoction	Antiaphonic, respiratory problems, liver problems, kidney problems, fever	12	0.02	5	0.42	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19▲
Buxaceae	*Buxus papillosa* C.K.Schneid. / Shamshad/ SV-065	Shrub	Leaves, bark/ decoction, infusion	Rheumatism, malaria, body pain	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Cactaceae	*Opuntia dillenii* (Ker Gawl.) Haw./ Nag phhanni/ SV-308	Herb	Fruits, leaves/ raw, gel,	Liver problems, diabetes, menstrual problems	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Cactaceae	*Opuntia stricta* Haw../ Nag phhanni/ SV- 309	Herb	Fruits, leaves/ raw gel	Liver problems, diabetes, menstrual problems	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5▲ , 6■, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Cannabaceae	*Cannabis sativa* L. / Bhang/ SV-070	Herb	Leaves/ infusion, paste	Insomnia, febrifuge, body pain, fatigue, dentalgia	12	0.02	5	0.42	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17■, 18*, 19▲
Cannabaceae	*Celtis australis* L./ Makhi dana/ SV-086	Tree	Bark/ decoction	Gynecological problems, gripe, cold	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17■, 18*, 19*
Capparaceae	*Capparis cartilaginea* Decne. / Unknown SV-071	Shrub	Leaves, stem/ decoction, paste, juice	Bruises, snakebites, inflamed joints, antiseptic, sore muscles	9	0.02	5	0.55	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Capparaceae	*Capparis spinosa* L. / Caper bush/ SV-073	Shrub	Seeds, leaves, roots, flowers/ extract, powder, raw	Anorexia, digestion, bone fracture, epitizer, liver problems, piles, hypertension	45	0.09	7	0.15	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Capparaceae	*Capparis decidua* Pax/ Karein/ SV-072	Shrub	Fruits, flowers, stem/ juice, pickle, ash	Earache, diabetes, gout, rheumatism, sciatica, menstruation pain, diuretic	10	0.02	7	0.7	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Capparaceae	*Dipterygium glaucum* Decne./ Safrawi/ SV-159	Herb	Leaves, aerial parts/ infusion, paste, decoction	Antifungal, depurative, respiratory problems	4	0.01	3	0.75	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Capparaceae	*Maerua arenaria* Hook.f. Thomson /SV-263	Climber	Flowers, leaves/ infusion	Oral thrush, stomach pain, insomnia	28	0.05	3	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Caprifoliaceae	*Lonicera japonica* Thunb./ Unknown/ SV-261	Twining vine	Aerial parts/ paste, infusion	Diuretic, Emollient	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* 6■, 7■, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Caryophyllaceae	*Silene conoidea* L./ Unknown/ SV-417	Herb	Whole plant/ infusion	Antiaging, gastralgia and gripe	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Caryophyllaceae	*Spergula arvensis* L./ Unknown/ SV-429	Herb	Whole plant/ decoction	Diuretic, kidney problems, expectorant	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Caryophyllaceae	*Stellaria media* (L.) Vill./ Charghai booti/ SV-433	Herb	Leaves/ infusion, fragrance	Cooling effect, jaundice, psoriasis, wounds and ulcer	9	0.02	5	0.55	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Celastraceae	*Gymnosporia royleana* M. A. Lawson/ Unkwon/ SV-208	Shrub	Bark/ decoction	Malaria, febrifuge	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Ceratophyllaceae	*Ceratophyllum demersum* L./ Darayi booti/ SV-095	Herb aquatic	Branches/ poultice	Emollient, venomous bite	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Chenopodiaceae	*Atriplex muricata* Humb, & Bonpl. ex Willd./ SV-048	Herb	Aerial part/ decoction	Jaundice	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Bassia muricata* (L.) Asch. / Daryai loonak SV- 054	Herb	Leaves/ poultice , decoction	Emollient, laxative	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11■, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Chenopodium album* L. / Bathoo/ SV-096	Herb	Leaves/ cooked	Constipation, urinary tract disorders	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13▲, 14▲, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Chenopodium ambrosioides* L./ Marerri/ SV-097	Herb	Leaves/ poultice, decoction	Wound healing, Respiratory problems	9	0.02	2	0.22	1▲, 2*, 3▲, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11■, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Chenopodium murale* L. / Chulaii/ SV-098	Herb	Leaves/ paste, infusion	Indigestion, gripe, impotency	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Haloxylon salicornicum* (L.) Guelden./ SV-221	Herb	Aerial part/ decoction	Blood sugar, skin care	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Kochia indica* Wight (Syn. *Bassia indica* (Wight) A.J.Scott/ SV-237	Herb	Whole plant/ infusion	Intestinal worms, diabetes	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Kochia scoparia* (L.) Schrad. (Syn. *Brassica scoparia* (L.) A.J.Scott)/ Kochia/ SV-238	Herb	Whole plant/ infusion	Intestinal worms, diabetes	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Salsola imbricata* Forssk./ Loonak/ SV-396	Herb	Aerial parts/ infusion	Jaundice, wounds, body pain	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Chenopodiaceae	*Suaeda fruticosa* (L.) Delile. (Syn. *Sueda vera* Forssk. ex J.F.Gmel./ Loonak/ SV-440	Shrub	Leaves/ infusion	Cooling effect, jaundice, laxative, vomiting	6	0.01	4	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Suaeda fruticosa* (L.) Forssk./ Loonak SV-441	Herb	Leaves/ infusion	Cooling effect, jaundice, laxative, vomiting	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Suaeda olufsenii* Paulsen./ Loonak/ SV-442	Herb	Leaves/ infusion	Cooling effect, jaundice, laxative, vomiting	6	0.01	4	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Suaeda vermiculata* Forssk. ex J.F.Gmel./ Loonak/ SV-444	Herb	Leaves/ decoction	Cooling effect, jaundice, laxative, vomiting	8	0.02	4	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Chenopodiaceae	*Suaeda salsa* (L.) Pall./ Loonak/ SV-443	Herb	Leaves/ decoction	Cooling effect, jaundice, laxative, vomiting, asthma	11	0.02	5	0.45	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Cleomaceae	*Cleome ariana* Hedge & Lamond / Badal banga SV-112	Herb	Aerial parts, leaves/ infusion, decoction	Constipation, piles, lungs infections	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Cleomaceae	*Cleome viscosa* L./ Badal banga SV-113	Herb	Aerial parts, leaves/ infusion, decoction, extract	Constipation, piles, lungs infections, cataracts	8	0.02	4	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18■, 19*
Combretaceae	*Quisqualis indica* L. (Syn. *Combretum indicum* (L.) DeFilipps/ Surkh chambaili/ SV-375	Liana	Flowers, aerial parts/ infusion, decoction	Halitosis, gastralgia and gripe, obesity, headache	9	0.02	5	0.55	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Convolvulaceae	*Convolvulus aitchisonii* Clarke / Werri SV-119	Herb	Whole plant/ concoction	Wound healing, diabetes, Emollient	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Argyreia speciosa a Sw.*/ Jangli nilofar/ SV-036	Herb	Aerial parts/ poultice, infusion	Wound healing, gastrointestinal problems	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Convolvulus arvensis* L./ Werri SV-118	Herb	Whole plant/ concoction	Wound healing, gastrointestinal problems	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Convolvulus glomeratus* Choisy/ Werri SV-120	Herb	Whole plant/ concoction	Wound healing, gastrointestinal problems	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Cressa cretica* L./ Unknown/ SV-131	Herb	Leaves/ infusion	Diuretic	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Cuscuta planiflora* Ten. / Amar bail/ SV-139	Vine	Seeds/ powder, infusion	Hypertension, diuretic , jaundice, liver ailments	7	0.01	4	0.57	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Cuscuta reflexa* Roxb./ Amar bail/ SV-140	Vine	Stem/ infusion	Diuretic, hypertension	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13▲, 14■, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Evolvulus alsinoides* L./ Werrii/ SV-188	Herb	Whole plant/ decoction	Amentia, amnesia, hypertension	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Ipomoea carnea* Jacq./ Neelofar/ SV-226	Shrub	Twigs, leaves/ decoction, paste	Infertility, gripe, Emollient	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12■, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Convolvulaceae	*Merremia dissecta* Hallier f./ Sanp bail/ SV-282	Herb	Whole plant/ decoction	Gynecological problems, bechic	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*

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Cordiaceae	*Cordia dichotoma* G.Forst. (Syn. *Cordia obliqua* Willd,) Lasorra/ SV-126	Tree	Fruits/ pickle	Tonic, bloating, anorexia, diabetes	27	0.05	4	0.15	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Cordiaceae	*Cordia gharaf* Ehrenb. ex Asch. (Syn. *Cordia sinensis* Lam.) / Goondi/ SV-127	Tree	Fruits/pickle, latex	Tonic, anorexia, cardiovascular diseases	31	0.06	3	0.10	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Cordiaceae	*Cordia myxa* L./ Lasurri/ SV-128	Tree	Fruits/ pickle, latex	Tonic, bloating, anorexia, diabetes	18	0.04	4	0.22	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Cucurbitaceae	*Cucumis callosus* Cogn. (Syn. *Cucumis melo* L.) / Chibharr/ SV-137	Herb	Fruit/ raw, paste, cooked	Diabetes, obesity, carminative, depurative, cooling effect, venomous bites	24	0.05	6	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11▲, 12▲, 13*, 14▲, 15*, 16*, 17*, 18*, 19▲
Cucurbitaceae	*Cucumis sativus* L./ Kheera/ SV-138	Herb	Fruit/ raw, paste, cooked	Hypertension, diabetes, constipation, cooling effect, amentia	32	0.06	5	0.15	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17■, 18*, 19*
Cucurbitaceae	*Citrullus colocynthis* (L.) Schrad./ Gharroonba/ SV-108	Herb	Seeds, fruit/ raw	Hypertension, skin problems, constipation, cooling effect, amentia	35	0.07	5	0.14	1*, 2▲, 3▲, 4*, 5▲ , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17▲, 18*, 19*
Cucurbitaceae	*Diplocyclos palmatus* (L.) C. Jeffery/ Golden chibbarr/ SV-157	Herb	Fruit/ raw, paste, cooked	Hypertension, diabetes, constipation, cooling effect, amentia	18	0.04	5	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Cucurbitaceae	*Momordica balsamina* L./ Jangli Karela/ SV-284	Herb	Fruit/ raw, cooked	Diabetes, depurative, skin problems, cardiotonic, hypertension, laxative	28	0.05	6	0.21	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Cupressaceae	*Platycladus orientalis* (L.) Franco (Syn. *Thuja orientalis* L.) Mor pankh/ SV-351	Shrub	Fruits/ raw	Gastrointestinal problems, bechic	4	0.01	2	0.5	1*, 2■, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Dryopteridaceae	*Polystichum lonchitis* (L.) Roth/ Fern/ SV-360	Fern	Whole plant/ paste	Inflammation, piles	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Ehretiaceae	*Ehretia obtusifolia* Hochst. ex DC./ Walaiti gurgura/ SV-164	Tree	Leaves, fruits bark/decoction, raw	Chest infections, aphrodisiac, menstrual cramps, cardiotonic	35	0.07	4	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Ephedraceae	*Ephedra foliata* Boiss. ex C.A.Mey. (Syn. *Ephedra ciliata* Fisch. ex C.A.Mey.)/ Afeem/ SV-169	Shrub	Young branches/ decoction	Respiratory problems	8	0.02	1	0.12	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Ephedraceae	*Ephedra procera* Fish. & Mey. /Afeem/ SV-170	Shrub	Young branches/ decoction	Respiratory problems	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Equisetaceae	*Equisetum arvense* L./ SV-171	Herb	Whole plant/ infusion	Epistaxis, diuretic	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16■, 17*, 18*, 19*
Equisetaceae	*Equisetum debile* Roxb. ex Vaucher (Syn. *Hippochaete debilis (*Roxb.) Ching)/ Ospa gudda/ SV-172	Herb	Whole plant/ infusion	Epistaxis, diuretic	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16■, 17*, 18*, 19*
Euphorbiaceae	*Chrozophora gracilis* Fisch. & C.A.Mey. ex Kar. (syn. *Chrozophora sabulosa* Kar. & Kir.) / Kamla tambaco/ SV-102	Herb	Leaves/ powder	Bechic, blood purifier, chest infections	11	0.02	3	0.27	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Chrozophora plicata* (Vahl.)A.Juss. / Kamla tambaco/ SV-103	Shrub	Leaves, fruits/ infusion, raw	Dysmenorrhea, wound healing, male infertility	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Euphorbiaceae	*Croton sparsiflorus* (Syn. *Croton bonplandianum* Flugge)./ Walaiti jamal ghota/ SV-135	Herb	Aerial parts / infusion	Laxative, purgative, constipation	14	0.03	3	0.21	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Euphorbia aucheri* Boiss. / Dhodak/ SV-179	Herb	Leaves/paste	Warts	4	0.01	1	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Euphorbia dracunculoides* Lam./ Dhodak/ SV-180	Shrub	Leaves/paste	Warts, Emollient	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Euphorbia indica* Lam./ Dhodak/ SV-180	Herb	Leaves/ paste	Joint pain	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Euphorbia granulata* Forssk./ Dhodak/ SV-182	Herb	Leaves/ latex	Emollient, warts, bites healer	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Euphorbia helioscopia* L./ Dhodak/ SV-183	Herb	Leaves/ latex	Emollient, warts	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10■, , 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19■
Euphorbiaceae	*Euphorbia hirta* L./ Dhodak/ SV-184	Herb	Leaves/ latex	Emollient, warts	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5■, 6■, 7*, 8*, 9■, 10*, 11*, 12■, 13■, 14■, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Euphorbia heterphylla* L./ Dhodak/ SV-185	Shrub	Leaves/ latex	Emollient, warts	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Euphorbia peplus* L./ Dhodak/ SV-186	Herb	Leaves/ latex	Emollient, warts, asthma, gout, liver ailments, purgative, diuretic	12	0.02	7	0.58	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14▲, 15▲, 16*, 17▲, 18*, 19*
Euphorbiaceae	*Euphorbia tirucalli* L./ Agrezi dhodak/ SV-187	Tree	Leaves/ latex	Ear infection	2	0.004	1	0.5	1*, 2*, 3■, 4*, 5* 6■, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Euphorbiaceae	*Jatropha hastata* Jacq./ Angrezi jamal ghota/ SV-228	Shrub	Flowers/ infusion	Purgative	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8▲, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Euphorbiaceae	*Ricinus communis* L./ Harnoli/ SV-381	Shrub	Seeds/ oil	Laxative, hair tonic, skin problems, constipation, antiaging, stomach disorders, piles, obesity, postpartum problems	35	0.07	9	0.25	1*, 2*, 3▲, 4*, 5▲, 6▲, 7*, 8*, 9▲, 10*, 11*, 12*, 13▲, 14▲, 15▲ , 16*, 17▲, 18*, 19▲
Fabaceae	*Argyrolobium arabicum* Jaub.& Spach/ Jangli nilofar SV-037	Tree	Pods/ decoction	Gynecological disorders, Jaundice, aphrodisiac, miswak sticks,	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Acacia farnesiana* (L.) Willd. (Syn. *Vachellia farnesiana* (L.) Wight& Arn.) / Kikar SV-003	Tree	Flowers, leaves, young twigs / raw, concoction infusion	Gynecological disorders, Jaundice, aphrodisiac, Asthma, gummosis	26	0.05	5	0.19	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13▲, 14▲, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Acacia modesta* Wall. (Syn, *Senegalia modesta* (Wall.) P. J. H. Hurter/ Phhulaii SV-004	Tree	Pods, flowers, leaves/ raw, infusion, concoction	Menoxenia, hepatitis, aphrodisiac, Asthma, miswak sticks. Cataract, diabetes, cough, cold	52	0.1	9	0.17	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10▲, , 11*, 12■, 13*, 14▲, 15*, 16*, 17*, 18■, 19*
Fabaceae	*Acacia nilotica* (L.) Willd. ex Delile/ Desi kikar/ SV-005	Tree	Pods, flowers, leaves, young twigs/ concoction, infusion	Gastrointestinal problems, bechic, diabetes	25	0.05	3	0.12	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Albizia lebbeck* (L.) Benth./ Kala sharin/ SV-018	Tree	Leaves, pods, seeds, bark / decoction, powder,	Cephalalgia, body pain, diabetes	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Albizia procera* (Roxb.) Benth. / Sufaid sharin/ SV-019	Shrub	Leaves, seeds/decoction, powder	Anorexia, depression, Aphrodisiac, jaundice, worm infestation, constipation	10	0.02	6	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Fabaceae	*Alhagi maurorum* Medik./ Ont kata/ SV-020	Herb	Pods, roots / cooked, infusion, decoction	Diabetes, depurative, obesity	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Astragalus flemingii Ali*/ Oyii/ SV-045	Herb	Whole plant/ decoction	Diabetes, cardiotonic, flu, diuretic	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Astragalus corrugatus* Bertol./Oyii/ SV-046	Herb	Whole plant, seeds/ powder, decoction	Diabetes, cardiotonic, flu, diuretic	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Astragalus eremophilus* Boiss./ Bakri kanda / SV-047	Herb	Whole plant, seeds/ powder, decoction	Diabetes, cardiotonic, flu, diuretic	13	0.03	4	0.31	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Bauhinia variegata* L./ Kachnar/ SV-055	Tree	Whole plant seeds/ powder, decoction	Malaria, febrifuge, dysentery, fatigue	19	0.04	4	0.21	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Cassia obtusifolia* L. (Syn. *Senna obustifolia* (L.) H.S. Irwin & Barneby)/ Senna boota / SV-084	Shrub	Bark, pods, twigs / decoction, cooked	Abdominal pain, body pain, fatigue	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Caesalpinia pulcherrima* (L.) Sw./ Gul-e-mor/ SV-066	Shrub	Leaves, bark/infusion	Obesity, tonic, malaria, bronchitis	9	0.02	4	0.44	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Cajanus indicus* Spreng. (Syn. *Cajanus cajan* (L.) Millsp./ Kaftara dal/ SV-067	Herb	Seeds, leaves/ powder , decoction	Gastralgia and gripe, wound healing, depurative, stomachache	12	0.02	5	0.42	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Cassia italica* Mill./ Senna boota/ SV-083	Herb	Pods, leaves, flowers/ paste, decoction	Laxative, body pain	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Fabaceae	*Ceratonia siliqua* L./ Berna/ SV-094	Shrub	Leaves/ decoction, infusion	Piles, wounds, Emollient, gastralgia and gripe, kidney stones	9	0.02	6	0.66	1■, 2*, 3▲, 4*, 5▲, 6*, 7*, 8*, 9*, 10■, , 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18■, 19*
Fabaceae	*Cassia occidentalis* L. (Syn. *Senna occidentalis* (L.) Link)/ Senna boota/ SV-085	Tree	Aerial parts/ paste, decoction, infusion	Gastrointestinal problems, bechic, cold	12	0.02	3	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11▲, 12*, 13*, 14▲, 15*, 16*, 17▲, 18*, 19*
Fabaceae	*Crotalaria aegyptiaca* Benth. SV-132	Herb	Bark /decoction	Gastrointestinal problems, diuretic	17	0.03	2	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Crotalaria burhia* Buch.-Ham. ex Benth. / Paharri matar/ SV-133	Herb	Seeds/cooked	Constipation, fatigue	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Crotalaria persica* (Burm.f.) Merr./ Paharri matar/ SV-134	Herb	Aerial parts/ decoction	Constipation, fatigue	8	0.02	2	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Cyamopsis psoralioides* (Lam.) DC. (Syn. *Cyamopsis tetragonoloba* (L.) Taub.)/ Guwara/ SV-141	Herb	Seeds/cooked	Digestive tonic, asthma, laxative, dengue, febrifuge	32	0.06	5	0.15	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Dalbergia sissoo* Roxb. ex DC./ Taali/ SV-148	Tree	Pods, seeds/ cooked, decoction	Cardiotonic, gynecological problems	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Indigofera tinctoria* L./ Oeyii/ SV-225	Herb	Leaves, bark / infusion, decoction	Epilepsy, insomnia, anxiety	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Lathyrus aphaca* L./ Jangli mutter/ SV-243	Herb	Whole plant/ infusion	Fodder, gastrointestinal problems, tonic	9	0.02	2	0.22	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Lathyrus odoratus* L./ Jangli mutter/ SV-244	Herb	Seeds / cooked	Tonic, gastrointestinal problems	9	0.02	2	0.22	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Fabaceae	*Lens culinaris* Medik./ Hardal/ SV-250	Herb	Seeds / cooked	Tonic, obesity, reduce cholesterol level, amentia	13	0.03	4	0.31	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Leucaena leucocephala* (Lam.) de Wit/ Angrezi siris/ SV-253	Tree	Seeds/ cooked	Menstrual problems	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Medicago laciniata* (L.) Mill./ Maina/ SV-273	Herb	Whole plant/ decoction	Respiratory problems	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Medicago orbicularis* (L.) Bartal./ Maina/ SV-274	Herb	Whole plant/ decoction	Respiratory problems	4	0.01	1	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Medicago polymorpha* L./ Maina/ SV-275	Herb	Whole plant/ decoction	Respiratory disorders	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Melilotus albus* Medik./ Maina/ SV-277	Herb	Aerial part, fruit/ decoction, poultice	Asthma, bronchitis, sore throat, joint pain	6	0.01	4	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Melilotus indica* (L.) All. (Syn. *Melilotus indicus* (L.) All.)/ Maina SV-278	Herb	Aerial part, seeds, fruit/ decoction, infusion	Asthma, bronchitis, sore throat, abdominal cramps	8	0.02	4	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Parkinsonia aculeata* L./ Walaiti kikar/ SV-319	Tree	Leaves, pods/decoction	Gynecological problems, febrifuge, body pain	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Prosopis cineraria* (L.) Druce (Syn.*Prosopis spicigera* L.)/ Jand/ SV-368	Tree , fodder	Leaves, bark, young twigs/ extract, decoction,	Wound healing, respiratory problems, antifungal, toothache, dyspepsia, sting bite	29	0.06	6	0.21	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14■, 15*, 16*, 17*, 18*, 19*

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Fabaceae	*Prosopis glandulosa* Torr./ Masqeet/ SV-369	Tree	Leaves/ decoction	Hair tonic, skin problems, itching	22	0.04	3	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Prosopis juliflora* (Sw.) DC. / Kikari/ SV-370	Shrub Fuel firewood timber	Pods / infusion	Jaundice, gynecological problems	29	0.06	2	0.07	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Rhynchosia capitata* Heyne ex Roth/ Unknown/ SV-380	Herb Animal food	Pods/ poultice	Itching, inflammation	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18■, 19*
Fabaceae	*Cassia floribunda* Cavan/ Unknown/ SV-410	Shrub	Leaves/ infusion, decoction	Nausea, anxiety, depression, constipation, stomach cramps	8	0.02	5	0.62	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Cassia tora* L./ Unknown/ SV-411	Herb	Leaves/ infusion	Jaundice, heartburn, anxiety, nausea, constipation	11	0.02	5	0.45	1*, 2*, 3*, 4*, 5▲ , 6*, 7*, 8*, 9▲, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Sesbania sesban* Britton/ Jantar/ SV-412	Shrub	Seeds/ cooked	Obesity, tonic, laxative	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Sophora mollis* (Royle) Graham ex Baker/ Unknown SV-427	Shrub	Bark, seeds/ decoction, raw	Carminative, indigestion, respiratory problems	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19■
Fabaceae	*Tephrosia apollinea* (Delile) Link/ Unknown/ SV-453	Herb	Whole plant/ decoction, poultice	Respiratory problems, epistaxis, wounds and fractures	7	0.01	5	0.71	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Tephrosia pumila* (Lam.) Pers./ Unknown/ SV-454	Herb	Leaves/ infusion	Sore throat, bechic, cold	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Fabaceae	*Tephrosia uniflora* Pers. (Syn. *Tephrosia quartiniana* Cufod.)/ Unknown/ SV-455	Herb	Leaves/ infusion	Sore throat, bechic, cold	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18■, 19*
Fabaceae	*Trigonella emodi* Benth../ Unknown/ SV-465	Herb	Seeds/ powder	Hypertension, obesity, kidney problems	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Fabaceae	*Vicia faba* L. Jangli matar/ SV-480	Herb	Seeds/ powder	Tonic, menstrual problems	6	0.01	2	0.33	1*, 2■, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17■, 18*, 19*
Fabaceae	*Vicia sativa* L./ Jangli matar/ SV-481	Herb	Seeds/ cooked	Tonic, obesity, dandruff	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Geraniaceae	*Geranium rotundifolium* L./ Neeli pochki/ SV-203	Herb	Whole plant/ decoction	Nephralgia , urinary problems	14	0.03	2	0.14	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Heliotropiaceae	*Heliotropium calcareum* Stocks/ Hathi sundi/ SV-213	Herb	Whole plant, leaves/ decoction, paste	Cardiovascular problems, wound healing, sore throat, dyspepsia	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Heliotropiaceae	*Heliotropium crispum* Desf./ Hathi sundi/ SV-214	Herb	Whole plant, leaves/ decoction, paste	Diabetes, wound healing, constipation, asthma	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Heliotropiaceae	*Heliotropium curassavicum* L./ Hathi sundi/ SV-215	Herb	Whole plant, leaves / decoction, paste	Diabetes, wound healing, constipation, bechic	11	0.02	4	0.36	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11■, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Heliotropiaceae	*Heliotropium europaeum* Forssk./ Hathi sundi/ SV-216	Herb	Whole plant, leaves/ decoction, paste, poultice	Diabetes, wound healing, laxative, respiratory problems	15	0.03	4	0.26	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14▲, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Heliotropiaceae	*Heliotropium subulatum* (DC.) Vatke./ Hathi sundi/ SV-217	Herb	Whole plant/ decoction, paste	Cardiovascular problems, skin problems, sore throat, dyspepsia	10	0.02	4	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Heliotropiaceae	*Heliotropium strigosum* Willd./ Hathi sundi/ SV-218	Herb	Whole plant, leaves/ decoction, paste	Diabetes, wound healing, respiratory problems, gripe, snakebite	13	0.03	5	0.38	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Hydrocharitaceae	*Hydrilla verticillata* (Roxb.) Royle/ Unknown/ SV-222	Herb	Whole plant/ decoction	Tonic, indigestion	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Hydrocharitaceae	*Najas graminea* Del./ Unknown/ SV-295	Herb	Whole plant/ poultice	Skin problems, inflammation	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Ajuga bracteosa* Benth./ Ratti booti/ SV-017	Herb	Aerial parts/ decoction	Ear, nose and throat (ENT) problems,	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13▲, 14■, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Anisomeles indica* (L.) Kuntze/ Bili-podina/ SV-033	Herb	Aerial parts/ infusion	Carminative, vomiting	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Clerodendrum phlomidis* L.f. / Arni SV-114	Shrub	Aerial parts/ infusion	Diabetes, gastralgia and gripe, amentia, body pain, febrifuge, antiaging	12	0.02	7	0.58	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Eremostachys vicaryi* Benth. ex Hk. f/ SV-175	Herb	Leaves, roots/ infusion, decoction	Fever, nausea, halitosis	19	0.04	3	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Leucas capitats* Desf./ Unknown SV-254	Herb	Leaves/ infusion	Cooling effect, jaundice	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Lamiaceae	*Leucas nutans* Spreng. / Unknown/ SV-255	Herb	Whole plant/ decoction	Hypertension, anxiety, halitosis	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Leucas urticifolia* R.Br./ Unknown/ SV-256	Herb	Whole plant/ decoction	Hypertension, anxiety, halitosis	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* 6*, 7*, 8*, 9*, 10*, , 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Lycopus europaeus* L./ Unknown/ SV-262	Herb	Whole plant/ decoction	Epilepsy, body pain	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Marrubium alternidens* Rech.f. (Syn.*Marrubium anisodon* K. Koch/ Unknown/ SV-270	Herb	Leaves/ paste, infusion	Anxiety, depression	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Marrubium vulgare* L./ Unknown/ SV-271	Herb	Aerial parts, leaves/ decoction, paste, infusion	Emollient, headache, depression	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11■, 12*, 13■, 14*, 15*, 16*, 17■, 18*, 19*
Lamiaceae	*Mentha arvensis* L./ Podna/ SV-279	Herb	Aerial parts, leaves/ decoction, paste, infusion	Gastrointestinal problems, nausea, vomiting, obesity, antiaging, cooling effect, Cephalalgia	25	0.05	7	0.28	1*, 2▲, 3■, 4*, 5* , 6*, 7*, 8*, 9▲, 10*, 11*, 12*, 13▲, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Mentha longifolia* (L.) L. (Syn. *Mentha sylvestris* L.)/ Jangli podna/ SV-280	Herb	Aerial parts, leaves/ decoction, paste, infusion	Gastrointestinal problems, nausea, vomiting, obesity, antiaging, cooling effect, Cephalalgia	38	0.08	7	0.18	1*, 2▲, 3*, 4*, 5* , 6*, 7*, 8*, 9▲, 10*, 11*, 12*, 13▲, 14*, 15*, 16*, 17*, 18*, 19▲
Lamiaceae	*Mentha spicata* L. (Syn. *Mentha viridis* (L.) L.) podna SV-281	Herb	Whole plant, leaves/ decoction, infusion	Gastrointestinal problems, nausea, vomiting, obesity, antiaging, cooling effect, Cephalalgia	18	0.04	7	0.39	1▲, 2▲, 3▲, 4*, 5* , 6*, 7*, 8■, 9*, 10*, 11*, 12*, 13▲, 14*, 15▲, 16*, 17▲, 18▲, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Lamiaceae	*Ocimum sanctum* L./ Tulsi/ SV-304	Herb	Flowers, leaves/ infusion, decoction	Cooling effect, hypertension, diabetes, gastrointestinal problems, malaria, febrifuge, body pain, bechic, deodorant, eye drop, headache, dizziness	32	0.06	12	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Ocimum americanum* L. SV-305	Herb	Flowers, leaves/ paste, decoction, raw	Gastrointestinal problems, skin problems. Cooling effect, obesity, jaundice	36	0.07	5	0.14	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Ocimum basilicum* L./ Niaz bo/ SV-306	Herb	Leaves/ infusion	Cooling effect, hypertension, diabetes, gastrointestinal problems, malaria, febrifuge, body pain, bechic, nausea	33	0.06	9	0.27	1■, 2▲, 3▲, 4*, 5* , 6*, 7*, 8■, 9▲, 10■, 11■, 12■, 13*, 14▲, 15*, 16▲, 17*, 18*, 19■
Lamiaceae	*Otostegia limbata* (Benth ex Hook.f. (Syn. *Rydingia limbata* (Benth.) Scheen & V.A. Albert/ Kanda booii/ SV-310	Shrub	Leaves/ decoction	Epilepsy, insomnia, depression, anxiety	26	0.05	4	0.15	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Salvia aegyptiaca* L. SV-399	Herb	Aerial parts/ decoction	Bronchitis, cold, cough	25	0.05	3	0.12	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Salvia moorcroftiana* Wall. ex Benth./ SV-400	Herb	Aerial parts/ decoction	Bronchitis, cold, cough	26	0.05	3	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13▲, 14■, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Salvia plebeia* R. Br./ Samundar suck SV-401	Herb	Aerial parts/ decoction	Bronchitis, cold, cough	23	0.05	3	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Salvia spinosa* L. SV-402	herb	Whole plant/ decoction, infusion, paste	Bronchitis, cold, cough	15	0.03	3	0.2	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Lamiaceae	*Satureja hostensis* Briq. (Syn. *Micromeria imbricata* C. Chr.)/ Unknown/ SV-405	Herb	Leaves, fruits/ infusion, powder	Constipation, food assence, obesity, digestion, vomiting, nausea, headache	9	0.02	7	0.77	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Vitex negundo* L./ Neer gundi/ SV-484	Shrub	Leaves, fruits/ infusion, powder	Gripe, vomiting, dyspepsia, nausea, obesity	8	0.02	5	0.62	1*, 2*, 3*, 4*, 5▲, 6*, 7*, 8*, 9▲, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Lamiaceae	*Vitex trifolia* L./ Neer gundi/ SV-485	Shrub	Whole plant/ decoction	Gripe, vomiting, dyspepsia, obesity	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Linaceae	*Linum usitatissimum* L./ Alsii/ SV-258	Herb	Whole plant/ decoction	Epilepsy, insomnia	7	0.01	2	0.28	1*, 2▲, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11■, 12*, 13*, 14*, 15*, ■ , 16*, 17*, 18*, 19*
Malvaceae	*Abutilon bidentatum* Hochst. ex A.Rich/ Kanghi SV-001	Herb	Flowers/ decoction	Gastralgia and gripe, fatigue, febrifuge, respiratory problems	8	0.02	5	0.62	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Abutilon indicum* (L.) Sweet/ Kanghi SV-002	Shrub	Flowers, leaves/ decoction	Gastralgia and gripe, fatigue, febrifuge, bechic	10	0.02	5	0.5	1*, 2*, 3*, 4*, 5▲, 6■, 7*, 8*, 9*, 10▲, , 11*, 12■, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Corchorus aestuans* Forssk./ Jangli sinrri SV-123	Herb	Leaves, seeds/ powder, decoction	Menstrual problems, Cephalalgia, febrifuge	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Corchorus olitorius* L. / Jangli sinrri SV-124	Shrub	Leaves, seeds/ powder , decoction	Menstrual problems, Cephalalgia, febrifuge, aphrodisiac	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Corchorus tridens* L./ Jangli sinrri/ SV-125	Herb	Leaves, seeds/ powder , decoction	Menstrual problems, Cephalalgia, febrifuge, aphrodisiac	7	0.01	4	0.57	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Malvaceae	*Grewia asiatica* L./ Gungair/ SV-204	Shrub	Fruit/ juice, raw	Tonic, cooling effect, amentia	19	0.04	3	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Grewia erythraea* Schweinf./ Gungair/ SV-205	Shrub	Fruits/ raw	Tonic, laxative, amentia, galactagogue	31	0.06	4	0.12	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Grewia tenax* (Forssk.) Fiori/ SV-206	Shrub	Fruits/ raw	Tonic, laxative, amentia, galactagogue	42	0.08	4	0.10	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18■, 19*
Malvaceae	*Grewia villosa* Willd./ Gungair/ SV-207	Shrub	Leaves/ decoction	Tonic, laxative, amentia, galactagogue	32	0.06	4	0.12	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18■, 19*
Malvaceae	*Hibiscus mutabilis* L./ Unknown/ SV-219	Shrub	Aerial parts/ decoction	Chest infection, dysmenorrhea	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Hibiscus palmatus* Forssk./ SV-220	Herb	Leaves, seeds/cooked, raw, concoction, infusion	Crippling affliction, joint pain, headache,	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Malva parviflora* L./ Pochki/ SV-265	Herb	Flowers, leaves / infusion	Gastrointestinal problems, laxative, tonic, bechic, skin problems	36	0.07	5	0.14	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9▲, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Malvastrum coromandelianum* (L.) Garcke / Unknown/ SV-266	Herb	Flowers/ infusion	Cooling effect, jaundice	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Malvaceae	*Malvaviscus arboreus* Dill. ex Cav./ Unknown/ SV-267	Shrub	Fruits/ raw	Menstrual problems	2	0.004	1	0.5	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Mazaceae	*Mazus japonicus* (Thunb.) Kuntze (Syn. *Mazus pumilus* (Burm.f.) Steenis)/ Unknown/ SV-272	Herb	Whole plant/ paste	Wound healing, Emollient	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Meliaceae	*Azadirachta indica* A. Juss./ Neem / SV-049	Tree	Seeds, leaves	Diabetes, malaria, hair tonic, skin allergies, irritation, pimples, Mosquito repellent, blood purifier	17	0.03	8	0.47	1*, 2*, 3▲, 4*, 5* , 6*, 7*, 8*, 9▲, 10*, 11*, 12▲, 13▲, 14▲, 15*, 16*, 17*, 18▲, 19*
Meliaceae	*Melia azedarach* L./ Nim/ SV-276	Tree	Leaves, seeds/ decoction, infusion, raw	Diabetes, halitosis, skin problems, Antipruritic, hair tonic, anti-lice, mosquito repellant, dengue, malaria, corona	22	0.04	10	0.45	1*, 2*, 3*, 4*, 5▲, 6▲, 7*, 8■, 9▲, 10*, 11*, 12*, 13▲, 14*, 15*, 16*, 17*, 18*, 19■
Meninspermaceae	*Cocculus pendulus* (J. R. Forst. & G. Forst.) Diels/ Pilwan SV-116	Shrub	Whole plant/ decoction,	Diabetes, biliousness, obesity, gynecological disorders, malaria	33	0.06	5	0.15	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, , 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Meninspermaceae	*Tinospora cordifolia* (Willd.) Miers ex Hook.f. & Thomson/ Gilo/ SV-457	Herb	Fruits, leaves/ infusion, raw	Tonic, emaciation, diabetes, hypertension, antipyretic	12	0.02	5	0.41	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9▲, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Menispermaceae	*Cocculus hirsutus* (L.) W. Theob./ SV-115	Climber	Fruits/ raw	Cardiotonic, emaciation, laxative, amentia	32	0.06	4	0.12	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Menyanthaceae	Nymphoides *cristatum* (Griseb.) O. Ktze./ Neelofar/ SV-303	Herb	Leaves/ infusion	Epilepsy, body pain, febrifuge	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Moraceae	*Broussonetia papyrifera* (L.) Vent./ Jangli toot/ SV-063	Tree	Leaf, bark/ infusion	Cooling effect, astringent	3	0.01	2	0.66	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14■, 15*, 16*, 17*, 18*, 19*
Moraceae	*Ficus benghalensis* L./ Bargad/ SV-195	Tree	Fruit, bark/ raw decoction	Leucorrhea, gynecological problems, laxative	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14■, 15*, 16*, 17*, 18*, 19*
Moraceae	*Ficus racemosa* Willd./ Gulharr/ SV-196	Tree	Fruits/ raw	Tonic, gastrointestinal problems, amentia, Leucorrhea	13	0.03	4	0.31	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13▲, 14▲, 15*, 16*, 17*, 18*, 19*
Moraceae	*Ficus religiosa* Forssk./ Pipal SV-197	Tree	Leaves/ decoction	Constipation, cardiotonic, diabetes	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Moraceae	*Morus alba* L./ Spin toot/ SV-289	Tree	Fruits/ raw	Emaciation, laxative, constipation, bechic, cold, antiaging, diabetes, obesity	22	0.04	8	0.36	1*, 2▲, 3*, 4*, 5■, 6▲, 7▲, 8▲, 9▲, 10*, 11*, 12*, 13▲, 14▲, 15*, 16■, 17*, 18*, 19*
Moraceae	*Morus laevigata* Wall. ex Brandis (Syn. of Morus macroura Miq.) Shah toot SV-290	Tree	Fruits/ raw	Emaciation, laxative, constipation, bechic, cold, antiaging, diabetes, obesity	21	0.04	8	0.38	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Moraceae	*Morus nigra* L./ Tor toot/ SV-291	Tree	Fruits/ raw	Emaciation, laxative, constipation, bechic, cold, antiaging, diabetes, obesity	20	0.04	8	0.4	1*, 2▲, 3▲, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19■
Moringaceae	*Moringa oleifera* Lam./ Sohanjna/ SV-287	Tree	Leaves/ powder	Diabetes, emaciation, gastrointestinal problems, cardiotonic, hypertension, obesity	18	0.04	6	0.33	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9*, 10■, , 11*, 12▲, 13*, 14▲, 15*, 16*, 17*, 18■, 19*
Moringaceae	*Moringa peregrina* Fiori/ Sohanjna/ SV-088	Tree	Seeds/ oil	Headache, fever, muscle pain, burns, constipation, labor	29	0.06	6	0.21	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Musaceae	*Musa* x *paradisiaca* L./ Kaila/ SV-294	Tree	Fruit/ raw	Skin problem, laxative, emaciation, tonic	13	0.03	4	0.31	1■, 2*, 3▲, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17■, 18*, 19*

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Myrtaceae	*Psidium guajava* L./ Amrood/ SV-372	Tree	Fruits, leaves/extract, raw	Laxative, halitosis, gastralgia and gripe, menorrhagia, antiaging	12	0.02	6	0.5	1▲, 2*, 3▲, 4*, 5* 6▲, 7*, 8*, 9▲, 10▲, , 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Myrtaceae	*Syzygium cumini* (L.) Skeels/ Jaman/ SV-445	Tree	Fruits, leaves/ raw, extract	Diabetes, hypertension, laxative, gripe, obesity, stomach problems	16	0.03	6	0.37	1■, 2*, 3▲, 4*, 5* , 6*, 7*, 8*, 9▲, 10▲, , 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Nelumbonaceae	*Nelumbium nelumbo* Druce (Syn. *Nelimbo nucifera* Gaertn.) Neelofar SV-298	Herb	Aerial parts/ infusion	Epilepsy, insomnia, body pain	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Nitrariaceae	*Peganum harmala* L./ Harmal/ SV-323	Herb	Aerial parts/ smoke	Skin allergy, evil eye	45	0.09	2	0.04	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11■, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19■
Nyctaginaceae	*Boerhavia diffusa* L./ Jahaya booti/ SV-058	Herb	Whole plant/ decoction	Hypertension, anxiety	29	0.06	2	0.07	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Nyctaginaceae	*Boerhavia procumbens* Banks ex Roxb. / Jahaya booti/ SV-059	Herb	Stem, leaves, roots/ decoction, infusion	Jaundice, depurative, gastrointestinal problems	12	0.02	3	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Nymphaeaceae	*Nymphaea alba* L./ Neelofar/ SV-301	Herb	Leaves/ infusion	Body pain, insomnia, epilepsy	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Nymphaeaceae	*Nymphaea lotus* L./ Neelofar/ SV-302	Herb	Aerial parts/ infusion	Hypertension, diuretic	7	0.01	2	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Oleaceae	*Jasminum sambac* (L.) Aiton/ Chambaili/ SV-227	Shrub	Flowers, leaves /decoction, infusion	Halitosis, obesity, gastrointestinal problems, depression, Cephalalgia	12	0.02	5	0.41	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Oleaceae	*Nyctanthes arbor-tristis* L./ Har singhar/ SV-300	Shrub	Leaves/ decoction	Hair tonic	2	0.004	1	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Oleaceae	*Olea ferruginea* Royle (Syn. *Olea europaea* subsp. *cuspidata* (Wall. ex G.Don) Cif./ Kao/ SV-307	Tree	Fruits, leaves/ oil, decoction,	Gynecological disorders, rheumatism, depurative, cardiotonic, bechic, obesity, hair tonic, antiaging	65	0.13	8	0.12	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8■, 9*, 10*, 11■, 12*, 13■, 14*, 15*, 16*, 17▲, 18*, 19*
Orobanchaceae	*Cistanche tubulosa* (Schenk) Wight ex Hook.f./ Khar ghainrr/ SV-107	Herb	Inflorescence, stem / decoction, powder	Aphrodisiac, diarrhea, contusions	31	0.06	3	0.10	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Orobanchaceae	*Lindenbergia indica* Kuntze/ Unknown/ SV-257	Herb	Leaves/ decoction	Cold, bechic	15	0.03	2	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Oxalidaceae	*Oxalis acetosella* L./ Khatti booti/ SV-311	Herb	Whole plant/ infusion	Cardiotonic, liver problems, jaundice	18	0.04	3	0.16	1*, 2■, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Oxalidaceae	*Oxalis corniculata* L. / Khatti booti/ SV-312	Herb	Whole plant/ infusion	Cardiotonic, liver problems, jaundice	18	0.04	3	0.16	1*, 2■, 3*, 4*, 5■, 6■, 7■, 8*, 9■, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Oxalidaceae	*Oxalis corymbosa* DC. (Syn. *Oxalis debilis* Kunth)/ Khatti booti SV-313	Herb	Whole plant/ infusion	Cardiotonic, liver problems, jaundice	7	0.01	3	0.43	1*, 2■, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Papaveraceae	*Argemone mexicana* L./ Jangli afeem/ SV-035	Herb	Aerial parts/ infusion, poultice	Soothing effect, anxiety, depression, insomnia	25	0.05	4	0.16	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Papaveraceae	*Fumaria indica* (Hausskn.) Pugsley/ Paprra/ SV-199	Herb	Aerial parts/ decoction, infusion	Obesity, gastrointestinal problems, febrifuge, jaundice	28	0.06	4	0.14	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9▲, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19■
Papaveraceae	*Papaver dubium* L./ Jangli afeem/ SV-317	Herb	Seeds, leaves/ paste, infusion	Skin problems, epilepsy, insomnia, fatigue, bechic, chest infection, backache	19	0.04	7	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Phyllanthaceae	*Phyllanthus maderaspatensis* Forssk./ Hazar dani/ SV-340	Herb	Whole plant/ decoction, roast	Febrifuge, bechic, flatulence , earache	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Bacopa monnieri* (L.) Wettst/ Barhami booti SV-051	Herb	Aerial parts/ decoction	Amnesia, tonic, epilepsy	26	0.05	3	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10■, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Kickxia elatine* (L.) Dumort./ Unknown/ SV-233	Herb	Whole plant/paste	Wounds, warts	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Kickxia hastata* (R.Br. ex Benth.) Dandy/ Unknown/ SV-234	Herb	Whole plant/paste	Wounds, warts	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Kickxia ramosissima* (Wall.) Janch. (Syn. *Nanorrhunum ramosiss* (Wall.) Betsche)/ Unknown SV-235	Herb	Whole plant/paste	Wounds, warts	9	0.02	2	0.22	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Kickxia spuria* (L.) Dumort./ Unknown/ SV-236	Herb	Whole plant/ paste	Wounds, warts	4	0.01	2	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Plantago amplexicaulis* Cav./ Isab gol/ SV-345	Herb	Husk/ raw	Obesity, dysentery, gastrointestinal disorders, piles, cooling effect	13	0.03	5	0.38	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Plantago stocksii* Boiss./ Isab gol SV-346	Herb	Husk/ raw	Obesity, dysentery, gastrointestinal disorders, piles, cooling effect	12	0.02	5	0.42	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Plantago ciliata* Desf./ Isab gol/ SV-347	Herb	Husk/ raw	Obesity, dysentery, gastrointestinal disorders, piles, cooling effect	38	0.08	5	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19▲

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Plantaginaceae	*Plantago lanceolata* L./ Isab gol/ SV-348	Herb	Husk/ raw	Obesity, dysentery, gastrointestinal disorders, piles, cooling effect	35	0.07	5	0.14	1*, 2▲, 3*, 4*, 5* , 6*, 7*, 8▲, 9*, 10*, 11*, 12*, 13▲, 14*, 15*, ▪ , 16▪, 17▪, 18*, 19▪
Plantaginaceae	*Plantago aitchisonii* Pilger (Syn.*Plantago major* L)./ Isab gol/ SV-349	Herb	Husk/ raw	Obesity, dysentery, gastrointestinal disorders, piles, cooling effect	25	0.05	5	0.2	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, , 16*, 17*, 18*, 19*
Plantaginaceae	*Plantago ovata* Forssk./ Isab gol/ SV-350	Herb	Husk/ raw	Obesity, dysentery, gastrointestinal disorders, piles, cooling effect, venereal diseases, boils, ulcer	26	0.05	8	0.31	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Schweinfurthia pedicellata (*T. Anders) Beth. & Hk./ Unknown/ SV-408	Herb	Whole plant/ infusion	Cooling effect, jaundice	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Schweinfurthia papilionacea* (L.) Boiss./ Unknown/ SV-409	Herb	Whole plant/ infusion	Cooling effect, jaundice, liver problems	21	0.04	3	0.14	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▪, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Veronica anagallis-aquatica* L./ Unknown/ SV-477	Herb	Whole plant/ decoction	Urinary problems, depurative, skin problems	9	0.02	3	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Veronica arvensis* L. / Unknown/ SV-478	Herb	Whole plant/ decoction	Urinary problems, depurative, skin problems	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Plantaginaceae	*Veronica persica* Poir./ Unknown/ SV-479	Herb	Whole plant/ poultice, decoction	Wound healing, Emollient, respiratory problems	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Poaceae	*Coix lachryma-jobi* L. / Jangli bajra SV-117	Herb	Leaves/ decoction	Diuretic, skin problems, indigestion	14	0.03	3	0.21	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Poaceae	*Cymbopogon jwarancusa* (Jones)/ Schult. Lemon grass/ SV-142	Herb	Leaves/ decoction	Hypertension, obesity, gastrointestinal problems, anxiety, depression, antiaging	27	0.05	6	0.22	1▲, 2*, 3▲, 4*, 5* , 6*, 7*, 8■, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Poaceae	*Cymbopogon martini* (Roxb.) Wats. Sirgiraa/ SV-143	Herb	Whole plant/ decoction	Gynecological problems, digestive problems, antiaging, respiratory problems, obesity, hypertension	30	0.06	6	0.2	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Poaceae	*Setaria italica* (L.) P. Beauv./ Ghas/ lomri jawar SV-413	Herb	Grains / roasted, cooked	Obesity, diabetes, hypertension, nausea, tonic	13	0.03	5	0.38	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Polygalaceae	*Polygala chinensis* L./ Unknown/ SV-354	Herb	Whole plant/ infusion	Inflammation, respiratory problems, hypertension, anxiety	8	0.02	4	0.5	1*, 2*, 3*, 4■, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Polygonaceae	*Calligonum comosum* L'Hér. / Aag jharri/ SV-068	Shrub	Stem/ decoction, raw. Infusion	Gynecological disorders, infertility, ethnoveterinary, toothache, tonic	21	0.04	5	0.24	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Polygonaceae	*Emex spinosa (*L.) Campd./ Jangli palak/ SV-168	Herb	Leaves/ infusion, cooked, decoction	Jaundice, constipation, dyspepsia	15	0.03	3	0.2	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Polygonaceae	*Polygonum aviculare* L./ SV-355	Herb	Whole plant/, decoction	Depurative, cardiotonic	6	0.01	2	0.33	1*, 2■, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16■, 17*, 18*, 19*
Polygonaceae	*Polygonum hydropiper* L. (Syn. *Persicaria hydropiper* (L.) Delarbre)/ Unknown/ SV-356	Herb	Whole plant/ decoction	Depurative, cardiotonic	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Polygonaceae	*Polygonum persicaria* L. (Syn. *Persicaria maculosa* Gray)/ Unknown/ SV-357	Herb	Whole plant/ decoction	Depurative, cardiotonic	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*

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Polygonaceae	*Polygonum plebejum* Kom./ Unknown SV-358	Herb	Whole plant/ decoction	depurative, cardiotonic	6	0.01	2	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Polygonaceae	*Rumex dentatus* L./ Jangli palak/ SV-385	Herb	Leaves/ cooked, infusion	Gastralgia and gripe, antibacterial, tonic, liver problems, carminative, nausea	25	0.05	7	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9▲, 10*, 11*, 12*, 13■, 14■, 15*, 16*, 17*, 18*, 19*
Polygonaceae	*Rumex vesicarius* L./ Jangli palak/ SV-386	Herb	Leaves/ cooked, infusion, raw	Gastralgia and gripe, antibacterial, tonic, liver problems, carminative, nausea	27	0.05	7	0.26	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14■, 15*, 16*, 17*, 18*, 19*
Pontederiaceae	*Eichhornia crassipes* (Mart.) Solms/ Gul-e-aqeeq/ SV-165	Herb aquatic	Whole plant/ infusion	Antiaging, Emollient	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Portulacaceae	*Portulaca grandiflora* Hook./ Phool dopehri/ SV-362	Herb	Aerial parts/ infusion, paste	Itching, halitosis	8	0.02	2	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Portulacaceae	*Portulaca oleracea* L./ Loonak/ SV-363	Herb	Leaves, young twigs/ cooked, decoction	Laxative, depurative, eyesight, obesity, anxiety, hypertension, tonic, dysentery, diarrhea, worm infestations	35	0.07	10	0.28	1*, 2*, 3*, 4*, 5▲, 6▲, 7■, 8*, 9*, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19▲
Portulacaceae	*Portulaca pilosa* L./ Chhota phool dopehri/ SV-364	Herb	Aerial parts/ decoction	Hypertension, diabetes	5	0.01	2	0.4	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Portulacaceae	*Portulaca quadrifida* L./ Kulcha/ SV-365	Herb	Aerial parts/ decoction	Hypertension, diabetes	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Portulacaceae	*Portulaca tuberosa* L./ Chota phool dopehri/ SV-366	Herb	Aerial parts/ decoction	Hypertension, diabetes, diuretic, wound healing	9	0.02	4	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

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Potamogetonaceae	*Potamogeton crispus* L./ Unknown/ SV-367	Herb	Whole plant/ paste	Piles, inflammation	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Primulaceae	*Anagallis arvensis* L./ Billi booti/ SV-029	Herb	Roots, leaves/ poultice, decoction	Digestive problems, skin rashes, snake bite, epilepsy	8	0.02	4	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13*, 14*, 15▲, 16■, 17*, 18*, 19*
Primulaceae	*Embelia ribes* Burm.f./ Bao barrang/ SV-167	Shrub	Leaves, seeds/ raw, powder, decoction	Ethnoveterinary, sore throat, gripe	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Pteridaceae	*Adiantum capillus-veneris* L./ Hans raj/ SV-009	Herb	Whole plant / decoction	Menorrhagia, body pain, bronchitis	23	0.05	3	0.13	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14■, 15*, 16*, 17▲, 18*, 19*
Ranunculaceae	*Clematis grata* O.Hoffm. ex Baker/ Birli SV-111	Climbing shrub	Twigs/ infusion	Osteoporosis, muscle cramp, diuretic	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Ranunculaceae	*Ranunculus arvensis* L./ Unknown/ SV-376	Herb	Flowers, leaves/ decoction	Malaria, febrifuge, body pain	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Ranunculaceae	*Ranunculus muricatus* L./ Unknown/ SV-377	Herb	Aerial parts/ decoction	Malaria, febrifuge, body pain	8	0.02	3	0.37	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11■, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Resedaceae	*Reseda aucheri* Boiss./ Unknown/ SV-378	Herb	Aerial parts/ decoction	Gastrointestinal problems	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Rhamnaceae	*Ziziphus jujuba* Mill./ Ber/ SV-493	Shrub	Leaves, fruits, wood, seeds/ raw, decoction,	Jaundice, cooling effect	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Rhamnaceae	*Ziziphus nummularia* (Burm.f.) Wight & Arn./ Ber/ SV-495	Tree	Leaves, fruits, seeds/ raw, decoction	Hair problems, trichogenous, laxative, tonic, constipation, backache, joint pain	25	0.05	7	0.28	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18▲, 19*

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Rhamnaceae	*Ziziphus mauritiana* Lam./ Karkina/ SV-494	Tree	Leaves, fruits, seeds/ raw, decoction	Hair problems, trichogenous, laxative, tonic, constipation, backache, joint pain, measles	51	0.1	8	0.15	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Rhamnaceae	*Sageretia thea* (Osbeck) M.C. Johnst./ Unknown/ SV-393	Tree	Aerial parts/ infusion	Hair problems, trichogenous, laxative, tonic, constipation, backache, joint pain	52	0.1	7	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9▲, 10▲, , 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Rhamnaceae	*Ziziphus aucheri* Boiss./ Ziziphus spina-christi var. aucheri (Boiss.) Qaiser & Nazim./ Ber/ SV-492	Tree	Leaves, fruits, seeds/ raw, decoction	Hair problems, trichogenous, laxative, tonic, constipation, backache, joint pain,	55	0.1	7	0.12	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12■, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Rubiaceae	*Galium aparine* L./ Mohabat bail/ SV-200	Herb	Leaves/ poultice	Antidote	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Rubiaceae	*Galium boreale* L./ Mohabat bail/ SV-201	Herb	Leaves/ poultice	Antidote	3	0.01	1	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Rubiaceae	*Pseudogaillonia hymenostephana* (Daub.& Spach)Lincz. SV-371	Herb	Aerial parts/ decoction	Gynecological problems, liver problems, respiratory problems, febrifuge	39	0.08	4	0.1	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Ruppiaceae	*Ruppia maritima* L./ Ghas/ SV-387	Herb	-----		5	0.01	0	0	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Rutaceae	*Citrus limon* (L.) Osbeck/ Leemon/ SV-109	Shrub	Fruits// raw, juice	Malaria, dangue, obesity, cooling effect, skin care, vomiting, nausea, digestion, cancer, antiaging	18	0.04	10	0.55	1▲, 2▲, 3▲, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11■, 12*, 13*, 14*, 15*, ■ , 16*, 17▲, 18*, 19*

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Rutaceae	*Citrus sinensis* (L.) Osbeck/ Kino/ SV-110	Shrub	Fruits/ raw, juice	Malaria, dengue, obesity, cooling effect, skin care, vomiting, nausea, digestion, cancer, antiaging	16	0.03	10	0.62	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15■ , 16*, 17■, 18*, 19*
Rutaceae	*Haplophyllum tuberculatum* (Forssk.) A. Juss./ Unknown SV-211	Herb	Whole plant/ decoction	Malaria, febrifuge	5	0.01	2	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Rutaceae	*Murraya koenigii* (L.) Spreng. (Syn. *Bergera koenigii* L.)/ Kurri pata/ SV-292	Tree	Leaves/ infusion, cooked	Gastrointestinal problems, obesity, skin problems, wound healing, appetizer, use to impart food absence	17	0.03	6	0.35	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Rutaceae	*Murraya paniculata* Kaneh/ Marwa/ SV-293	Tree	Leaves, flowers/ infusion, decoction	Gripe, cooling effect, obesity, cardiotonic, halitosis	14	0.03	5	0.35	1*, 2*, 3■, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Rutaceae	*Ruta graveolens* L./ Sadab/ SV-388	Herb	Aerial parts/ poultice	Venomous bite, skin problems	5	0.01	2	0.4	1*, 2▲, 3▲, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Salicaceae	*Populus nigra* L./ Populara/ SV-361	Tree	Bark, leaves/ decoction	Cardiotonic, malaria, body pain	12	0.02	3	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Salicaceae	*Salix tetrasperma* Roxb./ Baid ka darakht/ SV-395	Tree	Bark/ decoction	Cardiotonic, insomnia, febrifuge	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Salvadoraceae	*Salvadora oleoides* Decne./ Peelo/ SV-397	Tree	Young twigs, bark / raw, decoction, poultice	Miswak, gummosis, antimicrobial, dentalgia, urinary tract infections, blisters, ulcer, scorpion sting	47	0.1	8	0.17	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Salvadoraceae	*Salvadora persica* L./ Peelo/ SV-398	Tree	Young twigs, bark/ raw, decoction	Miswak, gummosis, antimicrobial, dentalgia, urinary tract infections	38	0.08	5	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14▲, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Salviniaceae	*Salvinia natans* (L.) All./ Unknown / SV-403	Fern/ herb	Whole plant/ poultice	Skin problems, inflammation, wounds	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Salviniaceae/	*Azolla pinnata* R.Br./ Daryai fern/ SV-050	Herb	Whole plant/ extract	Typhoid, antiaging, antibacterial	5	0.01	3	0.6	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Sapindaceae	*Cardiospermum halicacabum* L. / Ghubara bail/ SV-076	Lianas/ herb	Leaves/ infusion, decoction	Hair tonic, piles, laxative	7	0.01	3	0.42	1*, 2*, 3*, 4*, 5* 6■, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Sapindaceae	*Dodonaea viscosa* Jacq./ Sanatha/ SV-160	Shrub	Stem/ decoction	Cold, bechic, toothache, sore muscles	35	0.07	4	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12*, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Sapindaceae	*Sapindus mukorossi* Gaertn./ Reetha SV-404	Tree	Fruits, leaves/ decoction	Hair tonic, anti-dandruff, gastrointestinal problems	15	0.03	3	0.2	1*, 2*, 3*, 4*, 5■, 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13▲, 14*, 15*, 16*, 17*, 18*, 19*
Sapotaceae	*Manilkara hexandra* Dubard/ Molsari/ SV-268	Tree	Fruits, seeds/ raw	Gynecological disorders, carminative, gummosis, antidiabetic	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Sapotaceae	*Manilkara zapota* (L.) P.Royen/ Cheeko/ SV-269	Tree	Fruits/ raw	Depurative, gynecological disorders, immunity, cancer, emaciation, appetizer	15	0.03	6	0.4	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Sapotaceae	*Mimusops elengi* Bojer./ molsari SV-283	Tree	Fruit/ raw	Gynecological disorders, cancer, cardiotonic, miswak	18	0.04	4	0.22	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Sapotaceae	*Monotheca buxifolia* (Falc.) A.DC. (Syn. *Sideroxylon mascatense* (A.DC.) T.D.Penn.)/ Gurgura/ SV-285	Shrub	Fruits, young twigs, bark/ raw, decoction	Cooling effect, ,laxative, tonic, hypertension	65	0.13	4	0.06	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Scrophulariaceae	*Verbascum chinense* (L.) Santapau/ kamla tambaco/	Herb	Inflorescence/ decoction	Respiratory problems, diuretic, aphrodisiac	29	0.06	3	0.10	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Scrophulariaceae	*Verbascum thapsus* L./ Kamla tambaco/ SV-475	Herb	Aerial parts/ decoction	Respiratory problems, diuretic, aphrodisiac	25	0.05	3	0.12	1*, 2▲, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16▲, 17▲, 18*, 19*
Solanaceae	*Datura metel* Moc. & Sesse ex Dunal./ Dhatura/ SV-149	Herb	Leaves/ paste	Antifungal, Antipruritic	41	0.08	2	0.05	1*, 2*, 3*, 4*, 5■, 6■, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Solanaceae	*Datura stramonium* Thunb./ Dhatura/ SV-150	Herb	Leaves/ paste	Antifungal, Antipruritic, asthma, sedative, nerve pain, abscess	45	0.09	6	0.13	1*, 2*, 3*, 4*, 5▲, 6*, 7*, 8■, 9■, 10*, 11■, 12*, 13■, 14*, 15*, 16*, 17*, 18*, 19*
Solanaceae	*Physalis minima* L./ Kutte lal/ SV-341	Herb	Fruits/ infusion	Hypertension	4	0.01	1	0.25	1■, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11*, 12■, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Solanaceae	*Physalis peruviana* Mill./ Rusbhurri/ SV-342	Herb	Fruits/ raw	Depurative, tonic, kidney problems	6	0.01	3	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Solanaceae	*Solanum elaeagnifolium* Cav./ Mahorri/ SV-421	Herb	Fruit/ raw, decoction	Dentalgia, gummosis, venomous bite	26	0.05	3	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Solanaceae	*Solanum incanum* Kit. ex Schult./ Mahorri/ SV-422	Herb	Fruits, flowers/ infusion	Liver problems, cooling effect, gastrointestinal problems	28	0.06	3	0.11	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8■, 9*, 10*, 11*, 12■, 13■, 14▲, 15*, 16*, 17*, 18*, 19*
Solanaceae	*Solanum nigrum* Acerbi ex Dunal/ Mako SV-423	Herb	Fruits/ decoction, raw	Malaria, body pain, fatigue, tonic, respiratory problems, fever, moisturizer	29	0.06	7	0.24	1*, 2*, 3*, 4*, 5* 6■, 7■, 8*, 9■, 10*, 11*, 12*, 13■, 14*, 15*, 16*, 17■, 18*, 19▲
Solanaceae	*Solanum surattense* (Burm.f.) (Syn. *Solanum xanthocarpum* Schard.)/ Mahorri/ SV-424	Herb	Fruit/ raw	Hypertension, anxiety, depression, kidney problems	26	0.05	4	0.15	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9■, 10*, 11■, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Solanaceae	*Withania coagulans* (Stocks) Dunal/ Khamjeera/ SV-487	Herb	Fruits, seeds/ concoction, raw, infusion	Malaria, gripe, diabetes, hypertension, depurative, constipation, gynecological problems, menstrual problems	48	0.1	8	0.16	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19▲
Solanaceae	*Withania somnifera* (L.) Dunal/ Kutte lal/ SV-488	Herb	Fruits, seeds, leaves, roots/ concoction, raw, infusion	Malaria, gripe, diabetes, hypertension, depurative, constipation, gynecological problems, menstrual problems, burns, stings and bites, infertility	25	0.05	11	0.44	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8■, 9■, 10■, , 11*, 12▲, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Tamaricaceae	*Tamarix aphylla* (L.) Warb./ Rukh/ SV-446	Tree	Leaves/ smoke, powder	Skin problems, malaria, gynecological problems	40	0.08	3	0.07	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Tamaricaceae	*Tamarix dioica* Roxb. ex Roth/ Rukh/ SV-447	Shrub	Leaves/ smoke	Skin problems, measles	42	0.08	1	0.02	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Tamaricaceae	*Tamarix gallica* L. / Rukh/ SV-448	Shrub	Flowers/ infusion	Cooling effect, jaundice, hypertension, kidney problems	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11■, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Tamaricaceae	*Tamarix salina* Dyer/ Rukh/ SV-449	Tree	Flowers/ infusion	Cooling effect, jaundice, hypertension, kidney problems	11	0.02	4	0.36	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Typhaceae	*Typha laxmanii* Lepechin/ Koondar/ SV-466	Herb	Inflorescence/ raw, cooked	Bleeding piles, gastralgia and gripe, tonic	29	0.05	4	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Typhaceae	*Typha domingensis* Pers./ Koondar/ SV-467	Herb	Inflorescence, whole plant/raw, paste, cooked	Bleeding piles, gastralgia and gripe, tonic, skin soothing effect	17	0.03	5	0.29	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17■, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Typhaceae	*Typha elephantina* Roxb./ Koondar, khalay/ SV-468	Herb	Inflorescence, whole plant/ raw, paste, cooked	Bleeding piles, gastralgia and gripe, tonic	12	0.02	4	0.33	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Typhaceae	*Typha latifolia* L./ Koondar, khalay/ SV-469	Herb	Inflorescence, whole plant/ raw, cooked	Bleeding piles, gastralgia and gripe, tonic	16	0.03	4	0.25	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17*, 18*, 19*
Urticaceae	*Forsskaolea tenacissima* L. / Unknown SV-198urea	Herb	Leaves/ decoction	Antipyretic, body pain	7	0.01	4	0.57	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Urticaceae	*Urtica dioica* L./ Bichhu booti/ SV-473	Herb	Flower/ infusion	Fatigue, body pain, Cephalalgia	21	0.04	3	0.14	1*, 2■, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15■, 16■, 17■, 18*, 19*
Verbenaceae	*Lantana camara* L. Lantana SV-241	Shru	Leaves/ infusion	Malaria, fever	24	0.05	2	0.08	1*, 2*, 3*, 4*, 5* 6▲, 7*, 8▲, 9■, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Verbenaceae	*Phyla nodiflora* (L.) Greene/ Unknown/ SV-339	Herb	Aerial parts/ decoction	Respiratory problems	2	0.004	1	0.5	1*, 2*, 3*, 4, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14▲, 15*, 16*, 17*, 18*, 19*
Verbenaceae	*Verbena officinalis* L./ Vervain/ SV-476	Herb	Whole plant/ decoction	Febrifuge, fatigue, depurative, hypertension	6	0.01	4	0.67	1*, 2*, 3*, 4*, 5▲, 6*, 7■, 8*, 9*, 10*, 11*, 12*, 13*, 14■, 15*, 16*, 17■, 18*, 19*
Violaceae	*Viola cinerea* Boiss/ Jangli gul-e-binafsha, makhan booti/ SV-483	Herb	Whole plant/ powder, decoction	Aphrodisiac, tonic, amentia, impotency, cholesterol level, diabetes, hypertension	52	0.1	7	0.13	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13■, 14■, 15*, 16*, 17*, 18*, 19*
Zygophyllaceae	*Fagonia arabica* L./ Dhamasa/ SV-189	Herb	Whole plant/ decoction, infusion	Cooling effect, anti-cancerous, gastralgia and gripe	13	0.03	4	0.31	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19■
Zygophyllaceae	*Fagonia bruguieri DC.* / Dhamaya/ SV-190	Herb	Whole plant, leaves, roots/ decoction	Cooling effect, anti-cancerous, gastralgia and gripe	8	0.02	4	0.5	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*

Family	Botanical / Local name of the taxa/ voucher No.	Life form	part(s)/method used	Therapeutic use(s)/ value(s)	FC*	RFC*	UR*	UV*	Previous reports for comparison**
Zygophyllaceae	*Fagonia indica* Burm.f./ Dhamaya/ SV-191	Herb	Whole plant/ decoction	Cooling effect, anti-cancerous, gastralgia and gripe, colic, venereal diseases, kidney stones	29	0.06	7	0.24	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12▲, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Zygophyllaceae	*Tribulus macropterus* Boiss/ Bhakrra/ SV-460	Herb	Seeds, leaves/ decoction, powder	Cardiotonic, hypertension, impotence	7	0.01	3	0.43	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Zygophyllaceae	*Tribulus longipetalous* Viv./ Bhakrra/ SV-461	Herb	Seeds, leaves/ decoction, powder	Cardiotonic, hypertension, impotence	20	0.04	3	0.15	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9*, 10*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 18*, 19*
Zygophyllaceae	*Tribulus terrestris* L./ Bhakrra/ SV-462	Herb	Seeds, fruits, leaves/ decoction, raw, powder	Cardiotonic, hypertension, impotence, inflammation, tonic for urinary bladder	22	0.04	5	0.23	1*, 2*, 3*, 4*, 5* , 6*, 7*, 8*, 9▲, 10*, 11*, 12■, 13*, 14■, 15*, 16*, 17*, 18■, 19▲

1. Pedrollo et al. (2016); 2. Šarić-Kundalić et al. (2011); 3. Bieski et al. (2015); 4. Khuankaew et al. (2014) ; 5. Hong et al. (2015); 6. Li and Xing (2016); 7. Xiong et al. (2020); 8. Kefalew et al. (2015); 9. Bhatia et al. (2014); 10. Silambarasan and Ayyanar (2015); 11. Idm'hand et al. (2020); 12. Yaseen et al. (2015); 13. Shah et al. (2015); 14. Shah et al. (2019); 15. Menendez-Baceta et al. (2014); 16. Jarić et al. (2015); 17. Benítez et al. (2010); 18. Issa et al. (2018); 19. Bibi et al. (2014)

FC*, RFC*, UR* and UV* represents values of Frequency citation, Relative frequency citation, Use report and Use value respectively

** (▲)- Same report, (■)- different report, (*)- No report

Table 3. Family use value (FUV) of documented plant taxa.

Family name	UVs*	ns*	FUV*
Menyanthaceae	0.6	1	0.6
Combretaceae	0.55	1	0.55
Salviniaceae	1.1	2	0.55
Araceae	2.16	4	0.54
Asparagaceae	1.06	2	0.53
Cannabaceae	1.02	2	0.51
Alismataceae	0.5	1	0.5
Ceratophyllaceae	0.5	1	0.5
Cupressaceae	0.5	1	0.5
Equisetaceae	1	2	0.5
Polygalaceae	0.5	1	0.5
Caryophyllaceae	1.48	3	0.5
Meliaceae	0.92	2	0.46
Capparaceae	2.26	5	0.45
Rutaceae	2.67	6	0.44
Phyllanthaceae	0.44	1	0.44
Myrtaceae	0.87	2	0.43
Primulaceae	0.87	2	0.43
Ranunculaceae	1.3	3	0.43
Buxaceae	0.43	1	0.43
Chenopodiaceae	5.93	14	0.42
Convolvulaceae	4.2	10	0.42
Basellaceae	0.42	1	0.42
Verbenaceae	1.25	3	0.42
Cleomaceae	0.83	2	0.41
Hydrocharitaceae	0.83	2	0.41
Moraceae	2.81	7	0.4
Cactaceae	0.8	2	0.4
Caprifoliaceae	0.4	1	0.4
Celastraceae	0.4	1	0.4
Pontederiaceae	0.4	1	0.4
Potamogetonaceae	0.4	1	0.4
Nymphaeaceae	0.78	2	0.39
Apocynaceae	6.42	17	0.38
Euphorbiaceae	5.27	14	0.38
Bignoniaceae	0.75	2	0.37
Salicaceae	0.75	2	0.37
Asteraceae	12.72	34	0.37
Brassicaceae	5.2	14	0.37
Nelumbonaceae	0.37	1	0.37
Heliotropiaceae	2.17	6	0.36
Fabaceae	16.86	47	0.36
Lamiaceae	8.57	24	0.36
Urticaceae	0.71	2	0.35
Portulacaceae	1.77	5	0.35
Boraginaceae	1.03	3	0.34
Oleaceae	1.03	3	0.34
Malvaceae	4.74	14	0.34
Apiaceae	2.03	6	0.34
Mazaceae	0.33	1	0.33
Resedaceae	0.33	1	0.33
Acanthaceae	2.22	7	0.32
Plantaginaceae	4.98	16	0.31
Acoraceae	0.31	1	0.31
Musaceae	0.31	1	0.31
Zygophyllaceae	1.86	6	0.31
Polygonaceae	2.44	8	0.3
Dryopteridaceae	0.28	1	0.28

Family name	UVs*	ns*	FUV*
Linaceae	0.28	1	0.28
Moringaceae	0.54	2	0.27
Amaranthaceae	3.06	12	0.25
Rubiaceae	0.76	3	0.25
Sapotaceae	1.01	4	0.25
Oxalidaceae	0.75	3	0.25
Typhaceae	1	4	0.25
Sapindaceae	0.73	3	0.24
Meninspermaceae	0.68	3	0.22
Ephedraceae	0.45	2	0.22
Papaveraceae	0.67	3	0.22
Rhamnaceae	1.08	5	0.22
Aizoaceae	0.21	1	0.21
Solanaceae	2.09	10	0.21
Cucurbitaceae	1.03	5	0.21
Tamaricaceae	0.78	4	0.2
Nyctaginaceae	0.32	2	0.16
Cordiaceae	0.47	3	0.15
Asphodelaceae	0.31	2	0.15
Salvadoraceae	0.3	2	0.15
Geraniaceae	0.14	1	0.14
Pteridaceae	0.13	1	0.13
Violaceae	0.13	1	0.13
Orobanchaceae	0.23	2	0.11
Ehretiaceae	0.11	1	0.11
Scrophulariaceae	0.22	2	0.11
Arecaceae	0.21	2	0.1
Berberidaceae	0.1	1	0.1
Nitrariaceae	0.04	1	0.04
Poaceae	1.01	77	0.01
Ruppiaceae	0	1	0

UVs*, ns*, FUV* Sum of use values of the species included in that family, total number of species belonging to that family and calculated family use value respectively

Table 4. Informant consensus factor (IFC) for reported complaints categories

Complaint kind	Total use(s) reported	Total taxa reported	ICF*
Cardiovascular complaints	106	26	0.7
ENT problems	11	5	0.6
Neurological complaints	44	21	0.5
Musculoskeletal complaints	28	15	0.5
Gastrointestinal complaints	332	173	0.5
Antidote	26	15	0.4
Tonic	68	40	0.4
Dermatological complaints	147	92	0.4
Kidney complaints	17	11	0.4
Hair care	23	16	0.3
Gynecological complaints	66	46	0.3
Respiratory complaints	128	92	0.3
Oral and dental complaints	32	24	0.3
Liver complaints	58	47	0.2
Urogenital complaints	62	51	0.2
Others	123	103	0.2
Eye ailments	8	7	0.1
Fever	80	69	0.1
Infectious diseases	16	14	0.1
Pain	54	51	0.05
Piles	29	28	0.03
Oncology	22	22	0
Diabetes	52	52	0

ICF: Informant consensus factor

Table 5. Comparison of present studies with previous studies at national and global level- Jaccard Index (JI)

Reference	Total no. of reported taxa	No. of taxa with similar uses	No. of taxa with dissimilar uses	Sum of taxa found in both areas	Taxa percentage found in both areas	Taxa reported only in aligned area	Taxa confined to study area	Percentage with similar use	Percentage with dissimilar use	JI*
Pedrollo et al., 2016	119	5	6	11	9.24	108	406	4.20	5.04	2.18
Šarić-Kundalić et al., 2011	254	17	10	27	10.62	227	390	6.69	3.94	4.57
Bieski et al., 2015	332	18	16	34	10.24	298	383	5.42	4.82	5.25
Khuankaew et al., 2014	141	0	2	2	1.42	139	415	0	1.42	0.36
Hong et al., 2015	368	11	17	28	7.61	340	389	2.99	4.62	3.99
Li and Xing 2016	264	6	12	18	6.81	246	399	2.27	4.54	2.87
Xiong et al., 2020	121	1	8	9	7.44	112	408	0.83	6.61	1.76
Kefalew et al., 2015	131	4	13	17	12.97	114	400	3.05	9.92	3.42
Bhatia et al., 2014	166	21	40	61	36.75	105	356	12.65	24.1	15.25
Silambarasan and Ayyanar 2015	118	7	13	20	16.95	98	397	5.93	11.01	4.21
Idm'hand et al., 2020	130	1	17	18	13.85	112	399	0.77	13.08	3.65
Yaseen et al., 2015	87	19	30	49	56.32	38	368	21.84	34.48	13.72
Shah et al., 2015	250	24	54	78	31.2	172	339	9.6	21.6	18.01
Shah et al., 2019	217	72	56	128	58.98	89	289	33.18	25.81	51.2
Menendez-Baceta et al., 2014	139	6	6	12	8.63	125	405	4.32	4.32	2.31
Jarić et al., 2015	128	4	11	15	11.72	113	402	3.12	8.6	3
Benítez et al., 2010	229	10	16	26	11.35	203	391	4.37	6.1	4.57
Issa et al., 2018	94	3	17	20	21.28	74	397	3.19	18.08	4.43
Bibi et al., 2014	102	14	12	26	25.49	76	391	13.72	11.76	5.89

Discussion

Different socio-demographic factors (like gender, age, sex, educational status and source of livelihood) reflect a significant effect on the aboriginal respondent's indigenous knowledge about medicinal plants. According to Dulal *et al.* (2022), gender and education are two key demographic factors that determine the standard of respondent's indigenous knowledge followed by age and source of livelihood. Contrary to Dulal *et al.* (2022), it was observed that there was a significant difference between two genders regarding indigenous knowledge. This is perhaps due to prevailing traditions. Demographic data indicates that older people possess far better indigenous knowledge about the use of medicinal plants rather young ones, similar to results of Abbas *et al.* (2017). Bhaila *et al.* (2022) also confirmed that old age people have deep knowledge about nature and use of medicinal plants as compared to younger generation which lack interest and indigenous knowledge is almost eroded in this generation. The results also show that there is inverse proportion between indigenous knowledge and level of education and educated people are reluctant to adopt the traditions of their ancestors. Same observations were obtained in their studies by Gebru *et al.* (2021), Kassa *et al.* (2022).

During the present study a total of 417 plants belonging to 89 families were reported that were ethnobotanically used by the ethnic communities. The maximum utilization of plant species belonging to family Fabaceae coincides well with the ethnobotanical reports of (Abbas *et al.* 2017; Sukumaran *et al.* 2021; Ayyanar & Ignacimuthu 2011; Rahman *et al.* 2022). Dominancy of legumes (Fabaceae) for medicinal purpose perhaps relates to its taxonomic diversity and so many life forms such as herbs, shrubs, climbers and trees at high altitudes of the area while lower altitudes with dry conditions due to less seasonal rainfall favor many herbaceous legumes such as *Vicia faba*, *Lathyrus odoratus*, Astragalus spp., *Medicago arvensis*, *Cyamposis tetragonoloba*, Tephrosia spp. and Acacias. High record of medicinal flora from Fabacaeae indicates the fact the family comprised too many biologically active compounds because it represents the first ranked family of angiosperms as for their number is concerned (Heinrich *et al.* 1998; Johns *et al.* 1990; Thomas *et al.* 2009; Agelet & Valles 2001). Dominancy of herbs in the present study coincides well with other studies and research conducted in Pakistan and other countries like India, China, Nepal, Serbia and Ethiopia (Li & Xing 2016; Jarić *et al.* 2015; Ahmad *et al.* 2014; Ayyanar & Ignacimuthu 2011; Koirala & Khaniya 2009; Sanz-Biset *et al.* 2009). Due to abundant occurrence herb are frequently used by the native people of the area (Uniyal *et al.* 2006; Ayyanar & Ignacimuthu 2005). Phytochemical studies revealed that herb life form is rich in secondary metabolites like alkaloids, cyanogenic glycosides, phenolic glycosides (Coley *et al.* 1985) that are key components of medicinal uses (Lyon & Hardesty 2012). It is also common observation that near aboriginals, this small habit life form has the least side effects in their uses and active phytochemical molecules can easily be extracted (Teklehaymanot 2009; Yaseen *et al.* 2015). The traditional practices of inhabitants of a region usually impart the worth of every part of a plant. In the present research work maximum utilization of leaves was observed. These findings coincides with various other studies reported globally (Ahmad *et al.* 2014; Cakilcioglu & Turkoglu 2010; Ignacimuthu *et al.* 2006; Nguta *et al.* 2010; Koudouvo *et al.* 2011; Nadembega *et al.* 2011; Teklehaymanot & Giday 2007; Giday *et al.* 2010 ; Mahishi *et al.* 2005; Asase & Oppong Mensah 2009; Asase *et al.* 2010). The maximum dependency on leaves for herbal remedies perhaps indicates their easier availability and access rather than other parts for the herbals treatments (Giday *et al.*, 2003, 2009). However, the technical and scientific reason for their use is that leaves are the most metabolically active parts of plants (Ghorbani 2005). The frequent use of leaves is also supported by the reason that this part is the key photosynthetic organ of the plant and is the storehouse of photosynthates and exudates that are full of secondary metabolites that impart them as protective agents against their enemies particularly herbivores and these compounds are rich source of medicinal compounds for the treatment of the humans being (Ghorbani 2005; Bhattarai *et al.* 2006). In addition to this, the use of floral parts is least lethal for the survival of a species as compared to other organs of plants (Zheng & Xing 2009; Abebe & Ayehu 1993; Giday *et al.* 2003). The usage of specific organs of the plants suggests that these parts are imparted with valuable medicinal values but needs biochemical and pharmaceutical analyses for cross check of information reported by the indigenous people.

The plant organs/parts being used in different preparations were either dried or fresh and sometimes a combination of both. The high percentage of mode of utilization in this study was decoction followed by infusion. According to Ghorbani (2005), Nadembega *et al.* (2011) in folk herbal drugs, the frequently used mode of preparation was decoction, and it can be declared as one of the prevalent form of the herbal formulations being it is quite easy to prepare by mixing herbal parts in water and boiling it. That is why; the most common use in preparation of herbal medicine was either decoction or infusion. This mode of utilization was most easy because it was approachable to everyone (Nunkoo & Mahomoodally, 2012). Similar findings for utilzation methods are reported in many other studies (Gurdal & Kultur, 2013; Bibi *et al.* 2014; Eddouks *et al.* 2017; Shah & Rahim, 2017; Bouasla & Bouasla, 2017; Shah *et al.* 2019). Contrarily, high percentage of infusion followed by decoction was observed by Bulut *et al.* (2017). For taste and sometimes to reduce nausea and hallucination some additives like salt, black paper, lemon juice, milk, black salt, ghee or oil (for gastrointestinal problems mainly), sugar and honey are also mixed according to taste and quantity. Some edible parts of plants (fruits, leaves (as salad), seeds, etc.) are used in raw form for

treating various ailments in the study area. Among the total plant species in the study area, it was observed that some plant species were of great ethnic precedence thus are mostly quoted by informants. These 28 plant species which were mentioned by more than 35 informant includes; *Olea ferruginea, Monotheca buxifolia, Nannorrhops ritchieana, Ziziphus nummularia, Caralluma tuberculata, Acacia nilotica, Ziziphus mauritiana, Viola cinerea, Ziziphus oxyphylla, Rhazya stricta, Phoenix sylvestris, Withania coagulans, Salvadora oleoides, Capparis decidua, Peganum harmala, Datura stramonium, Eruca sativa, Grewia tenax, Tamarix dioica, Datura metel, Tamarix aphylla, Pseudogaillonia hymenostephana*, *Calotropis procera, Mentha longifolia, Plantago ciliata, Salvadora persica, Ocimum americanum* and *Malva parviflora* (Figure 6). The RFC is the index that helps to pinpoint the species for which a suitable management and maintainable consumption approaches need to be designed to confirm consistent source of plants reserves used for long run (Asase *et al.* 2005). It was observed that these plants are reported and mentioned for various phytochemical and pharmacological activities in literature.

Olea ferruginea is very important fruit tree and used as dietary supplement globally. The vital secondary metabolites of leaves comprise hypoglycemic and hypotensive activity (Gonzalez *et al.* 1992; Hansen *et al.* 1996). The extract of leaves is effective for hypertension, digestive and cardiac problems (Zarzuelo *et al.* 1991; Benavente-Garcia *et al.* 2000), antimicrobial and antioxidant potential of plant is reported by Mehmood and Murtaza, (2018). *Monotheca buxifolia* is used not only for medicinal purposes but the inhabitants of mountainous areas also used this plant as domestic fuel, timber and fodder. It is reported to cure various ailments (Ullah *et al.* 2016). The presence of different phytochemicals is the reason of biological and antioxidants activities of different parts of that plant (Ehsan *et al.* 2020; Rehman *et al.* 2013). *Nannorrhops ritchiana* commonly known as mazri/ mazara in local language not only have nutritional and medicinal value but this plant species is of great importance regarding the ethnobotanical purposes, like hotpots, brooms, baskets, hand fans, domestic fuel and many more. Phytochemical analysis of roots and leaves indicates the presence of various phytochemicals i.e flavonoids, alkaloids, terpenoides etc. have major role in curing different kinds of pathogenic infections (Kumari *et al.* 2016; Mehmood *et al.* 2017). *Ziziphus nummularia* is traditionally known for great nutritional value and tonic. The different part of plant like fruit and leaves are reported to be used for gastrointestinal eye, dermatological problems, musculoskeletal, oral and dental problems (Shah *et al.* 1990; Muhammad *et al.* 2020; Hussain *et al.* 2017). The plant is reported to contain various phytochemicals (Bodroth & Das 2012) and shown biological activities (El Maaiden *et al.* 2020; Aggarwal *et al.* 2018; Kumar *et al.* 2010). *Caralluma tuberculata* is screened for various phytochemical and biological activities. And due to the presence of various phytochemicals anti-inflammatory and antinociceptive potential of plant is confirmed (Venkatesh *et al.* 2003; Ali 1986). *Acacia nilotica* is found pharmacologically active for different ailments in various studies reported to contain different phytochemicals and antioxidants (Ayoub 1982; El-Tahir *et al.* 1999; Singh *et al.* 2009; Omara *et al.* 2012; Fatima *et al.* 2005). *Ziziphus mauritiana* also contains a diverse group of phytochemicals and secondary metabolites like phenolics, flavonoids, antioxidants and others. The antioxidant and wound healing potential of leaves is also reported (Cheng *et al.* 2000; Dahiru & Obidoa, 2007; Deshpande *et al.* 2013; Talmale *et al.* 2015). *Rhazya stricta* is also studied regarding the photochemical, antioxidant and biological properties. It is observed that the plant is of great importance regarding these activities and must be evaluated regarding the bioactive compounds (Ali *et al.* 2000; Iqbal *et al.* 2006). *Phoenix sylvestris* is of great importance value and also used in food industry. The plant is rich source of various nutrients and phytochemicals and shown a lot of pharmacological activities for various biological systems (Jain *et al.* 2018). *Withania coagulans* is tonic for health and shown a lot of pharmacological activities including cardiovascular and ant cancerous (Gupta & Keshari, 2013). *Salvadora oleoides and Salvadora persica* are reported and screened for phytochemical and pharmacological activites and the presence of various compounds confirms and validates the importance of these plants for various pharmacological activities (Mekhemar *et al.* 2021; Samejo *et al.* 2012; Singh *et al.* 2021). *Capparis decidua* is a rich source of phytochemicals and has a significant pharmacological activity which indicates the pharmacological potential of the plant (Rathee *et al.* 2010). *Peganum harmala* is reported to have various phytochemicals (mainly harmaline, harmine, harmalol, Harman) and pharmacological functions of digestive problems, antitumor, anti-inflammatory, antiviral and antifungal (Asgarpanah & Ramezanloo, 2012). *Datura stramonium* is reported to be toxic due to main alkaloid tropane and other alkaloids. So it is very important to be careful about using any part of plant for any medicinal purpose. Restlessness, dizziness, hallucination and psychiatric symptoms are observed after ingestion *D. stramonium* (Oberndorfer *et al.* 2002; Kurzbaum *et al.* 2001; Spina & Taddei 2007). *Eruca sativa* seeds are reported to have various phytochemicals and nutrients used for edibles (Al-Khalifa 1996). The secondary metabolites present in seeds are required for traditional medicines and antibacterial activity and important for various drugs (Alam *et al.* 2007). The presence of antioxidants is also confirmed from the seeds (Barillari *et al.* 2005). *Grewia tenax* is reported to contain various antioxidants and antitumor activities (Brahma & Kundu 1961; Aadesariya *et al.* 2017). *Tamarix dioica* is screened for phytochemical, antimicrobial and antifungal activities. It is observed that all the parts of plants contain various phytochemicals like flavonoids, saponins and phenols (Samejo *et al.* 2013; Khan *et al.* 2013). *Datura metel* is described to contain high alkaloids concentration and mainly has antimicrobial, antifungal, anticancer activities (Monira & Munan 2012). *Tamarix aphylla* is screened for chemical constituents and flavonoids, tannins and phenolic acids are found to

be present mainly (Bahramsoltani *et al.* 2020). These findings validate its medicinal value and pharmacological effects (Alshehri *et al.* 2021). *Calotropis procera* is a rich source of phytochemicals and also have pharmacological effects for various disease categories. The presence of various phytochemicals validates its effectiveness as conventional remedies for various health ailments (Meena *et al.* 2010). *Mentha longifolia* is screened for various pharmacological and phytochemical activities. Besides the effectiveness for gastrointestinal problems the plant is also reported for other activities and possesses strong antioxidants (Farzaei et al., 2017). *Plantago ciliata* a rich source of fibers and phytochemical screening of plant confirms the presence of vital phytochemicals (Alghamdi 2018). *Ocimum americanum* is a very important and effective medicinal plants and it is reported to contain various secondary metabolites like phenolics, flavonoids and alkaloids (Dhale *et al.* 2010). *Malva parviflora* is reported to contain various phytochemicals and this may be the reason of different pharmacological activities observed by this plant (Naser *et al.* 2022). *Viola cinerea* and *Pseudogaillonia hymenostephana* are not mentioned for phytochemical screening in literature, so that these plants species are selected and evaluated for baseline data of bioactive compounds and antioxidant potential in current study. The highest FUV value was observed for Menyanthaceae (*Nymphoides peltata*). These results are in line with Scarp, 2004. The presence of different polyhenoles and peroxidase activities indicates and validates the potential of *Nymphoides peltata* (Lavid et al. 2001). The second highest FUV was reported for family Combretaceae and Salviniaceae. *Quisqualis indica* (Combretaceae) is used for halitosis, gastralgia, gripe, obesity and headache by the inhabitants. Presence of different phytochemicals like flavonoids, phenolics, tannins, saponins and reported pharmacological activities (Mahajan & Aher, 2017) validate and support the importance and documentation of plant species in current study. Analysis revealed the high protein contents, minerals, carotenoid and vitamins from *Azolla pinnata* (Salviniaceae) and presence of various phytochemicals from *Salvinia natans* (Salviniaceae) (Roy *et al.* 2016; Pham *et al.* 2022). During current study the high ICF value was observed for cardiovascular complaints (0.7). The reason of high ICF value for cardiovascular disorders is that cardiovascular complaints are leading cause of mortality (Strong *et al.* 2006). The inhabitants of the area use medicinal plants as preventive measure from cardiovascular complaints on regular basis. It was observed that using medicinal plants to prevent cardiac problems is common among the inhabitants mainly after the age of forty. Oncology and diabetes is reported with least ICF value i.e. zero this may be due to lack of communication among the informants regarding ailments (Table 4). The high ICF value indicates that for a particular complaint category there is a no. of plants or a group of plants which is known to many informants. This may be due to the fact that informants share the knowledge with one another about particular plants for particular ailment category. On the other hand the low ICF values (close to zero) may be the indication of communication gap, or it may be due to the disagreement of informants for the particular use of plants in an ailment or complaint category (Gazzaneo *et al.* 2005). In this first ethnopharmacological study of Surghar Range it was observed that highest species of plants are used for treating gastrointestinal complaints (173 species). The high percentage of plants used for gastrointestinal category is also reported by Bibi *et al.* (2014). Poor health care facilities, diet and unavailability of safe drinking water are the main reasons observed in study area. Gastrointestinal complaints are documented as top mentioned use category in some studies at global level (Ghorbani *et al.* 2005; Mosaddegh *et al.* 2012). The highest value of JI was observed with the study conducted in Namal Valley, Salt Range, Pakistan by Shah *et al.* (2019) followed by Shah *et al.* (2015) District Tor Ghar, KPK, Pakistan with JI 51.2 and 18.01 respectively. The high value of JI with these studies confirmed the similar ethnobotanical culture of these aligned areas. The similarity existing between climates, reprieves and phytogeography is the reason of similarity in JI values as topography impacts all these factors. Besides this the language, attires, myths and history are some factors and mutual threads shared by communities of these regions. The low value of JI indicates the diversity between ethnobotanical cultures of various regions. The diverse documented evidence about ethnopharmacological uses of plants may provide the baseline data to evaluate the medicinal plants diversity in different directions according to claims. The closeness and contradiction of ethnobotanical heritage highlight the significance of the ethnic restiveness of curative and therapeutic flora in diverse regions where sequential and ecological (Moerman 1998; Ladio *et al.* 2007) configuration improves their collection.

Conclusion

According to the findings of this study, the Surghar Range is abundant in indigenous medicinal flora. Furthermore, the study revealed that traditional medicine based on ancient indigenous knowledge is alive and still practiced among ethnic communities of the study area and the people have deep indigenous knowledge of native plants. It is also concluded that there is huge gap of knowledge transmission from the older to the younger generation. A total of 417 species belonging to 89 families were identified. Novel medicinal species that are highly cited are *Berberis lyceum*, *Caralluma tuberculata, Forsskaolea tenacissima, Grewia tenax, Kickxia ramosissima, Momordica balsamina, Monotheca buxifolia, Nannorrhops ritchiana, Ocimum americanum, Olea ferruginea, Pseudogaillonia hymenostephana, Rumex vesicarius, Schweinfurthia papilionacea, Viola cinerea* and *Ziziphus oxyphylla*. Unfortunately, flora of the region especially therapeutic plants are facing severe threat of extinction due to unscientific use, overexploitation and over-mining for minerals (coal, silica). Therefore, it

is the dire need for documentation of plants and indigenous knowledge to avoid erosion of traditional knowledge and to conserve cultural heritage. Their traditional knowledge on the medicinal plants must be validated with phytochemical and pharmacological and phytochemical screening to determine bioactive compounds and needs to be preserved.

Declarations

List of abbreviation: Frequency citation (FC), Relative frequency citation (RFC), Use value (UV), Informant census factor (ICF), Jaccard Index (JI), Family use value (FUV),World Flora Online (WFO)

Ethics approval and consent to participate: Prior to the survey, we got oral informed consent from each participant.

Consent for publication: not applicable

Availability of data and materials: Request for data can be directed to the first author

Funding: The study was supported by Higher Education Commission Pakistan under National Research Programs for Universities (NRPU) No. 20-4546/ R&D/NRPU/HEC/14/850.

Competing interests: The authors declare that there is no conflict of interests in this article.

Author contributions: The manuscript is written by S.R. as PhD scholar. A.S. (as PhD supervisor) and S.I. (as PhD co-supervisor) helped in tabulation of data. All the authors approved the final manuscript after revision.

Acknowledgments

The manuscript is extracted from the PhD dissertation of the first author (S.R.). The authors are thankful to Higher Education Commission of Pakistan (HEC) (Programme No. 20-4546/ R&D/NRPU/HEC/14/850) for financial, technical and practical support. The authors are indebted to the racial tribes, indigenous communities, and local herbalists for their cooperation and providing necessary information.

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