



Ethnopharmacological study of plants used in Diabar region, Azerbaijan

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Research

Abstract

Background: Medicinal plants play an important role in traditional healthcare systems worldwide, and ethnopharmacological studies are essential for documenting traditional knowledge. The Diabar region in Azerbaijan's Talysh mountains possesses a rich heritage of traditional medicine; however, such knowledge remains largely undocumented. This study aimed to systematically record and analyze the medicinal plants used by local communities in this under-researched area.

Methods: Ethnobotanical data were collected from 140 participants across 21 villages using semi-structured interviews and field surveys. Quantitative indices, including Use Value (UV) and Relative Frequency of Citation (RFC), were calculated to assess plant importance.

Results: The research documented 205 plant species from 60 families used to treat various ailments. The most cited families were Asteraceae (30 species) and Lamiaceae (20 species). *Cydonia oblonga* recorded the highest RFC (0.90). The most frequently treated conditions were cough (67 reports), digestive disorders (55), and inflammation (53). Quantitative analysis highlighted species with high cultural significance; notably, *Cydonia oblonga* also demonstrated a high Use Value (0.89), alongside *Thymus trautvetteri* (UV = 0.70) and *Morus nigra* (UV = 0.71). The data further revealed significant use of plants for liver disorders, infections, and as sedatives.

Conclusion : This study provides the first comprehensive inventory of medicinal plants in the Diabar region, preserving valuable traditional knowledge. The findings identify culturally important plants that warrant further phytochemical and pharmacological research to validate their therapeutic applications and potential for drug development.

Keywords: Azerbaijan, Diabar, ethnobotany, ethnopharmacology, medicinal plants, Talysh.

Background

Medicinal plants have been an essential component of traditional healthcare systems worldwide for centuries. Ethnopharmacological research plays a crucial role in documenting indigenous knowledge, preserving cultural heritage, and identifying plant species with potential therapeutic value. Currently, numerous studies on the use of medicinal plants in traditional medicine are being conducted worldwide, and related findings are increasingly being published (Abdelfettah *et al.* 2026; Ali *et al.* 2026; Doğan *et al.* 2026; Haq *et al.* 2022; Hardiman *et al.* 2025; Hedges *et al.* 2026; Islamova *et al.* 2026; Jalali *et al.* 2026; Maataoui *et al.* 2026; Rehman *et al.* 2023). Despite the global importance of medicinal plants, traditional knowledge in many regions remains insufficiently documented and is at risk of being lost due to modernization and socio-cultural changes. In this context, Azerbaijan represents a region with rich biodiversity and diverse cultural traditions related to the use of medicinal plants. The Republic of Azerbaijan is a multiethnic and multicultural country where Azerbaijani, Lezgi, Russian, Talysh, Avar, Turkish, Tatar, Tat, Ukrainian, Sakhur, Georgian, Jewish, Kurdish, Griz, Udin, and Khinalyg peoples have coexisted over centuries. Azerbaijan is located in the eastern part of the South Caucasus, at the intersection of Western Asia and Eastern Europe (Heydar Aliyev Foundation 2025; State Statistical Committee of the Republic of Azerbaijan 2025). The Caucasus region, historically known as a bridge between the Black and Caspian seas, has been recognized by the Worldwide Fund for Nature as one of the world's 200 global biodiversity hotspots (Alakbarli 2001). Azerbaijan shares borders with Georgia and Armenia to the west, Russia to the north, Iran and Turkey to the south, and is bordered by the Caspian Sea to the east (Gadimli *et al.* 2024). Its rich biodiversity is attributed to its geographical location and diverse landscape, including the Greater Caucasus, Lesser Caucasus, Talysh mountain systems, and the Kur-Araz lowland (WWF Azerbaijan 2025; Convention on Biological Diversity 2000; USAID 2020; Worldwide Fund for Nature 2025).

Azerbaijan is characterized by rich cultural and ethnic diversity, which is reflected in its folklore and traditional medicine practices, locally known as *turkechare*. Historical sources document centuries of plant use for food, medicine, construction, and agriculture (Bussmann *et al.* 2018; Damirov *et al.* 1983). However, ethnobotanical and ethnopharmacological studies in Azerbaijan remain limited, particularly in remote and understudied regions (Asgarov 2016; Grossheim 1949; Ibadullayeva *et al.* 2010; Ibadullayeva 2020; Pieroni & Sökand 2019).

Medicinal plants have been widely used in folk medicine in the Diabar region, one of the ancient settlements of Azerbaijan. Despite long-standing traditional practices, no comprehensive ethnopharmacological studies had been conducted in this region prior to this research.

This study contributes to preserving local ethnobotanical knowledge and provides a foundation for future research, including phytochemical and pharmacological evaluation of lesser-studied species. The findings will enhance understanding of traditional herbal medicine practices in Azerbaijan and promote the sustainable use of medicinal plant resources (Isayev 2006; Isaev *et al.* 2016; Isayev *et al.* 2017; Isayev *et al.* 2024; Kerimov *et al.* 2010; Olennikov *et al.* 2019; Olennikov *et al.* 2022; Safarova & Isayev 2022).

The aim of this study is to document and analyze traditional knowledge regarding medicinal plants used for treating various diseases in the Diabar region. For the first time, an inventory of wild and cultivated medicinal plant species used by local inhabitants has been compiled, along with quantitative data on their therapeutic applications.

Materials and Methods

Study area

The Talysh mountainous region is located in the southeast of Azerbaijan and is represented by four ridges: the Talysh Ridge (with its highest peak, Kemyurkei Mt., 2493 m), the Peshtasar Ridge, the Dizgoni Ridge, the Burovar Ridge, and the Diabar (Zuvand) depression. This area is particularly rich in rare endemic flora. The region is predominantly rural, with communities engaged in agriculture, animal husbandry, and traditional crafts.

Diabar is considered one of twenty main geobotanical regions characterized by homogeneous and unique vegetation cover with high endemism (Grossheim 1949). It includes Lerik and Yardimli districts of Azerbaijan (Fig. 1).

Lerik district is located at elevations of 2000–2400 m and has a temperate climate, with annual precipitation ranging from 300 to 800 mm. Agriculture is the primary livelihood, including grain and potato farming, fruit cultivation (apple, pear, walnut) and livestock breeding (sheep and cattle) (WWF Azerbaijan 2025; Convention on Biological Diversity 2000; USAID 2020).

Yardimli district lies at elevations of 1000–1800 m and has a warm and humid climate with mild winters and hot summers. Agriculture is the main occupation, including grain, potato and tobacco farming, livestock breeding and beekeeping (State Statistical Committee of the Republic of Azerbaijan 2025). Rural healthcare facilities include Central District Hospitals (CDH), village site hospitals, village doctor ambulatories and feldsher-midwife points (FMP). Lerik has one CDH, one family health center and three village site hospitals (Peshtatuk, Aliabad and Veri). Yardimli has one CDH, two village site hospitals (Shefeqli and Berjan), 17 village ambulatories and 16 FMPs (Lerik District Executive Power 2025). Mountainous terrain and dispersed settlements make healthcare access difficult, particularly in winter, resulting in continued reliance on traditional healers (tabibs) and herbal remedies. Respiratory, gastrointestinal and cardiovascular disorders are common (State Statistical Committee of the Republic of Azerbaijan 2025).

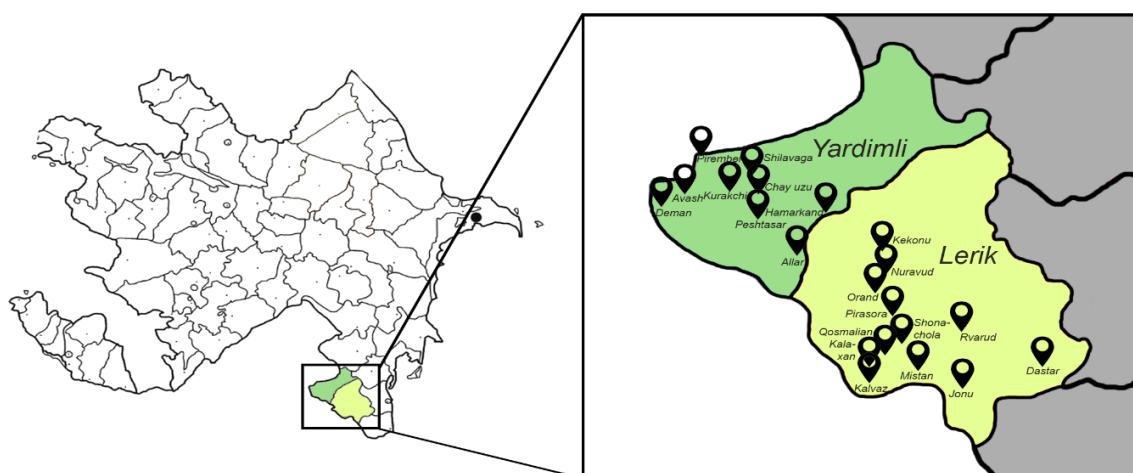


Figure 1. Map of the Diabar region, Azerbaijan, showing the ethnopharmacological study area.

Table 1. Ethnopharmacological sampling sites of the Diabar region with population and geographical data.

Name of the village	Population	Altitude	Latitude	Longitude
Pirasora	289	1758	48°22'51"E	38°43'14"N
Mistan	186	1400	48°25'55"E	38°38'46"N
Jonu	354	1300	48°30'38"E	38°36'54"N
Kalakhan	942	1600	48°20'56"E	38°39'00"N
Gosmalian	854	1800	48°23'34"E	38°41'20"N
Shonachola	552	1700	48°24'44"E	38°41'43"N
Rvarud	820	900	48°29'31"E	38°41'43"N
Kalvaz	270	1800	48°21'40"E	38°37'25"N
Kekonnu	178	1700	48°18'58"E	38°47'38"N
Dastar	362	1400	48°36'22"E	38°38'48"N
Nuravud	1542	1500	48°21'09"E	38°46'23"N
Orand	1378	1600	48°20'46"E	38°44'55"N
Pirembel	557	1100	48°07'39"E	38°55'15"N
Shilavanga	388	1100	48°13'36"E	38°53'23"N
Avash	1047	1100	48°05'56"E	38°54'11"N
Deman	950	1300	48°02'27"E	38°52'40"N
Kurekchi	1851	900	48°07'45"E	38°53'01"N
Chayyuz	956	900	48°10'41"E	38°53'00"N
Hamarkand	722	1000	48°15'55"E	38°51'34"N
Peshtasar	459	1100	48°10'32"E	38°51'00"N
Allar	1674	1200	48°14'12"E	38°47'53"N

Fieldwork

The study involved three phases: literature review, field data collection and statistical analysis. Fieldwork was conducted from March 2022 to August 2024 in 12 villages of Lerik (Pirasora, Mistan, Jonu, Kalakhan, Gosmalian, Shonachola, Rvarud, Kalvaz, Kekonnu, Dastar, Nuravud and Orand) and 9 villages of Yardimli (Pirembel, Shilavanga, Avash, Deman, Kurekchi, Chayyuz, Hamarkand, Peshtasar and Allar).

Interviews were carried out in participants' homes and through "walk-in-the-woods" surveys in private gardens, plantations, pastures, forests and meadows. Participants were selected using a snowball sampling approach, where initial informants were identified based on their knowledge of traditional medicine and subsequently recommended other knowledgeable individuals within the community. Interviews were conducted in Azerbaijani and Talysh, with informed consent obtained. Semi-structured questionnaires captured demographic information (gender, age, education) and plant-use details (vernacular names, plant parts used, preparation and application). The free-listing technique was used to record all plants cited by informants (Quinlan *et al.* 2002). Photographs of plants were shown to assist recognition and ensure accurate identification (Phillips *et al.* 1994).

Plant Collection and Identification

Plant identification during fieldwork was carried out by Prof. Isayev J.I., utilizing the *Flora of Azerbaijan* (Grossheim 1949; Karyagin 1957) and *Azərbaycanın Bitki Aləmi* (Asgarov 2016). The herbarium specimens were deposited at the Institute of Botany, Azerbaijan Academy of Sciences. The Latin names of the specimens were verified using Plants of the World Online (2025) and World Flora Online (2023). Detailed photographs of plant specimens were taken for documentation purposes.

Data Analysis

A thorough review of recent ethnopharmacological literature was carried out to provide the foundational references for the analysis presented herein (Etkin 1993; Hussain *et al.* 2022; Irfan *et al.* 2021; Jan *et al.* 2024; Karakaya *et al.* 2020; Leonti 2022; Mamedov *et al.* 2015). Several key indices were employed in analyzing the data:

Family Importance Value (FIV)

The Family Importance Value Index (FIV) is an ethnobotanical metric that quantifies the significance of a plant family based on its cultural relevance and utility. Different researchers have used slightly varying definitions, but the core concept revolves around the prominence of a plant family within a studied community. Family Importance Value (FIV) was calculated according to Equation 1 (Asghar *et al.* 2018).

$$FIV = FC(\text{Family})/N \times 100$$

FC – frequency of plant family citations, N – the total number of informants.

Use Value (UV)

UV quantifies the relative importance of each species within a community. It is calculated by dividing the total usage reports for a species by the number of participants. Use Value (UV) was calculated according to Equation 2 (Khan *et al.* 2018; Ali *et al.* 2023).

$$UV = \sum U_i / N$$

$\sum U$ – the sum of all uses mentioned by each informant, N – the total number of participants.

Relative Frequency of Citation (RFC)

RFC identifies the preferred plant species for treating diseases by calculating the ratio of citations for a species to the total number of informants. Relative Frequency of Citation (RFC) was calculated according to Equation 3 (Birjees *et al.* 2022; Ullah *et al.* 2023).

$$RFC = FC / N$$

FC – the number of participants that report the uses of specific species, N – the total informants who are involved in the study. RFC values range between 0 and 1.

Informant Consensus Factor (ICF)

The values, ranging from 0 to 1, indicate the level of agreement among participants regarding plant usage for specific disease categories. Higher values suggest fewer species are commonly used by many informants, while lower values reflect a lack of consensus. Informant Consensus Factor (ICF) was calculated according to Equation 4 (Umair *et al.* 2017; Ayub *et al.* 2023).

$$ICF = \frac{N_{ur} - N_t}{N_{ur} - 1}$$

N_{ur} – the number of use-reports for a particular ailment category, N_t – the number of species used for that ailment category
Microsoft Excel was utilized for data processing and analysis.

Results

Demographic features of informants

A total of 140 individuals were questioned across several communities in the examined region. The participants' age ranged from 40 to 90, with a predominance in the 61–70 age group (47 people), and 9 participants were over 90 years old (Fig. 2). The age categories were defined based on the distribution of participants across age groups, with a higher representation of older individuals, consistent with their role in traditional knowledge practices. The younger generation demonstrates diminished interest in herbal therapies, likely due to the recent surge of over-the-counter pharmaceuticals, easily obtainable from pharmacies in nearby towns. Informants also indicated a reduction in the transmission of traditional knowledge on plant use.

As nine-year general secondary education is mandatory in the country, the majority of respondents (90) have at least a secondary education level; 43 are university graduates, and only 7 are uneducated. The analysis of participants' marital status revealed a predominance of married individuals, while the gender distribution was skewed towards males (48 women and 92 men), probably attributable to socio-cultural barriers (Fig. 2).

In terms of occupation of the survey participants, retired people represented the vast majority of the informants, followed by teachers and shepherds. Typically, practitioner-healers were hesitant to disclose their expertise in traditional plant usage; however, in certain instances, they exhibited greater openness and provided information on treating ailments such as the common flu, fever, and gastrointestinal issues, among others (Isayev *et al.* 2024; Isayev *et al.* 2025).

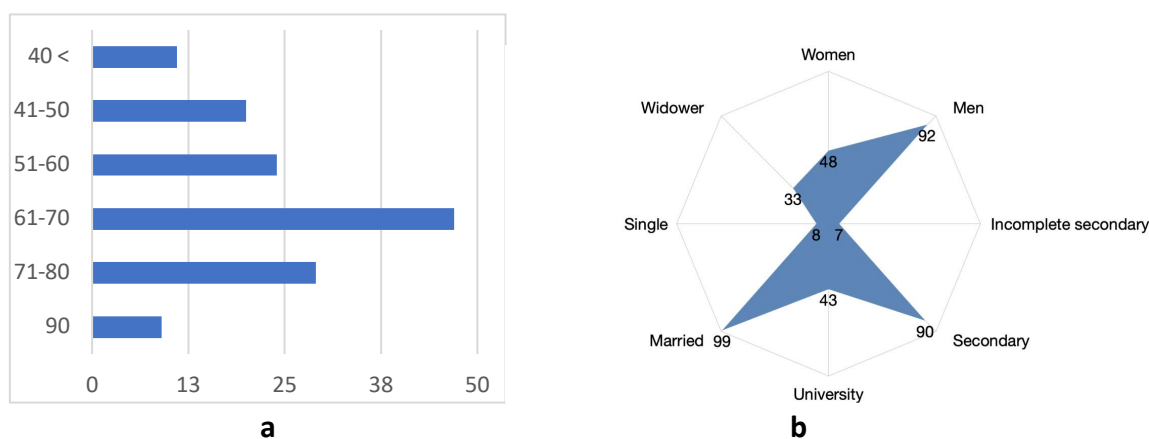


Figure 2. Demographic characteristics of informants: a – by age group; b – by gender, education, and marital status.

Family importance value (FIV)

A total of 205 plant species belonging to 60 families, including 176 dicotyledons, 26 monocotyledons, and 3 high spore-bearing plants, are mentioned in the survey (see Supplementary Table S1). The most mentioned families are Asteraceae with 30 species (14.63%), Lamiaceae with 20 species (9.76%), Rosaceae with 17 species (8.29%), Fabaceae with 14 species (6.82%), and Apiaceae with 10 species (4.88%). Six species from Malvaceae, Poaceae and Scrophulariaceae (2.93%), 5 species from Brassicaceae and Iridaceae (2.44%), and four species from Caryophyllaceae, Hyacinthaceae, Orchidaceae and Polygonaceae (7.80%) recorded to be useful in the treatment of different ailments. Other plant families were represented by two or just one species.

To consider the significance of the families represented by the limited number of species, the Family Importance Value Index was calculated (Fig. 3). This enabled identification of high values for plant families represented by single species like *Lythraceae* (FIV 72), *Pedaliaceae* (FIV 60), *Salicaceae* (FIV 48), or by 3 species like *Moraceae* (FIV 66).

Habit and status

The survey also includes mentions about such botanical characteristics as the life form and cultivation status of the plants. Among recorded plants, 168 (81.95%) were represented by herbs, 21 (10.24%) by trees, 11 (5.37%) by shrubs, 4 (1.95%) by subshrubs, and 1 (0.49%) liana. Out of the recorded 205 medicinal plant species, 32 are cultivars and 173 are wild varieties. Cultivated plants such as onion, garlic, fennel, beetroot, cabbage, pepper, cumin, saffron, pumpkin, anise, breadfruit, radish, spinach, sesame, beans, and corn serve both culinary and medicinal purposes.

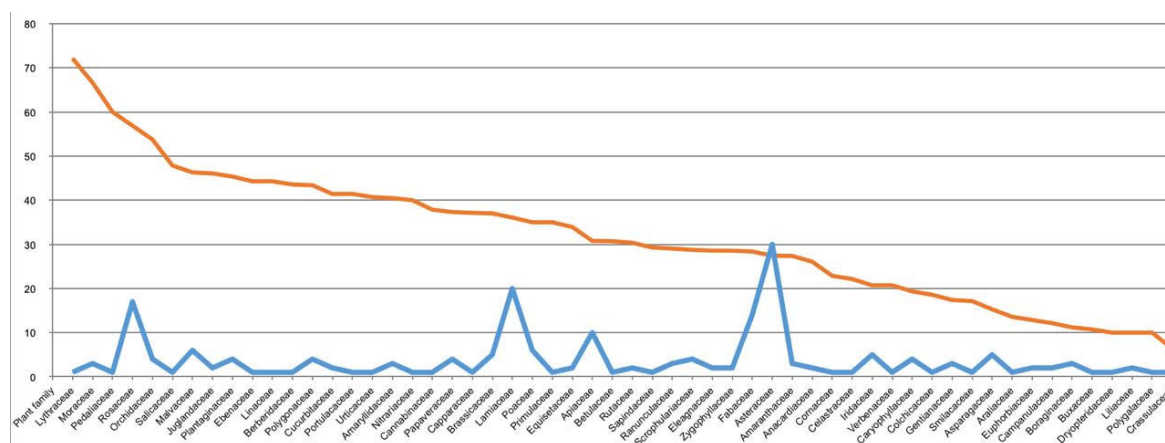


Figure 3. Relationship between the number of species in each plant family (blue line) and their corresponding Family Importance Value (FIV) (orange line).

Parts used

According to the results, whole plants (herbs) are the most used plant parts with 79 mentions (38.54%), following the fruits in 38 plants (18.54%), leaves in 21 plants (10.24%), flowers in 13 plants (6.34%), tubers in 10 plants (4.88%), rhizomes in 7 plants (3.41%), roots in 6 plants (2.93%), seeds in 5 plants (2.44%), bulbs in 3 plants (1.46%), tendrils and bark (0.49%) in one plant species (Fig. 4). For some plants, two different parts are mentioned. As for the preparation methods, infusion, decoction, extraction, fruit juice, fresh plant, ash, tar, and smoke (cigarette) are mentioned, with a predominance of infusion, decoction, and fresh plant.

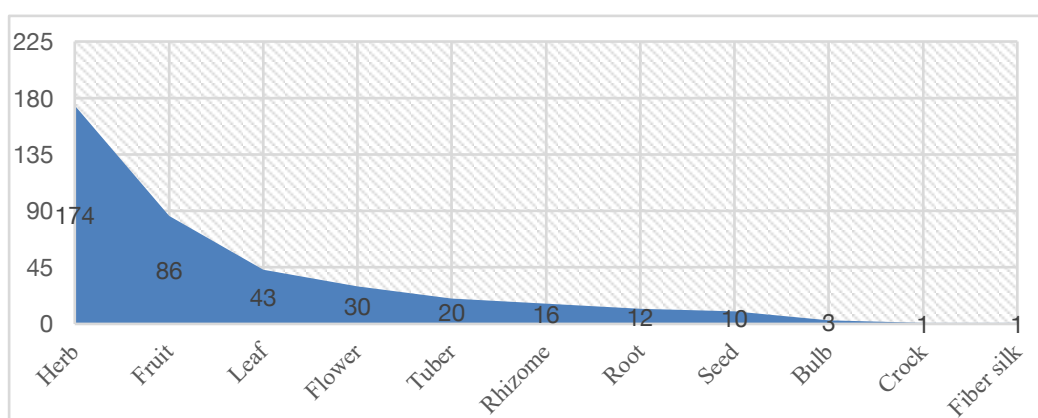


Figure 4. Distribution of plant parts used in traditional medicine, showing the number of use-reports for each plant part recorded during the survey.

Relative frequency of citation

The highest RFC values are recorded for *Cydonia oblonga* (0.90), *Crataegus pentagyna* (0.99), *Plantago major* L. (0.78), *Crataegus orientalis* (Mill.) M.Bieb. (0.99), *Glycyrrhiza glabra* (0.74), *Punica granatum* L. (0.89), *Morus nigra* L. (0.73), *Thymus trautvetteri* Klok. et Shost. (0.87), *Rumex confertus* Willd. (0.79), and *Rosa canina* L. (0.74).

The lowest values recorded for *Cirsium cinerlus* Bieb. (0.11), *Silene schafta* (0.16), *Rosularia cymbalaria* L. (0.08), *Euphorbia marschalliana* Boiss. (0.09), *Scrophularia zuvandica* Grossh. (0.10), *Onopordum acanthium* L. (0.05) indicate that these species cannot be considered important in terms of use in the treatment of specific ailments.

Use value (UV)

Cydonia oblonga Mill. (0.89), *Thymus trautvetteri* Klok. et Shost. (0.70), *Morus nigra* L. (0.71), *Althaea officinalis* L. (0.59), *Rosa canina* L. (0.69), *Rhaphanus sativus* L. (0.62), *Malva sylvestris* L. (0.66), *Thymus kotschyanus* Boiss. et Hohen. (0.61), *Ficus carica* L. (0.67), *Plantago major* L. (0.76), *Foeniculum vulgare* Mill. (0.55), *Calendula persica* C.A. Mey (0.49), *Zea mays* L. (0.49), *Achillea millefolium* L. (0.55), *Crataegus pentagyna* Waldst. et Kit. ex Willd. (0.81), *Glycyrrhiza glabra* L. (0.74), *Citrus limon* (L.) Osbeck (0.51), *Carum carvi* L. (0.52), *Cichorium intybus* L. (0.43), *Linum usitatissimum* L. (0.44), *Althaea cannabina*

L. (0.49), and *Nepeta mussini* Spreng. ex-Henck. (0.42) are among the species that demonstrated the highest UV values (Table S1).

Ailments cured

The ailments most frequently reported by informants include cough relief (67), digestive disorders (55), urinary problems (30), and skin conditions (29). Plants are also reported to be used as sedatives (25), choleric agents (24), and in diabetes management (22), as well as for the common cold and as laxatives (19). Additionally, moderate use of plants as mouthwashes, for sleep disorders, joint pain, and as analgesic and anti-allergic agents was recorded (Fig. 5).

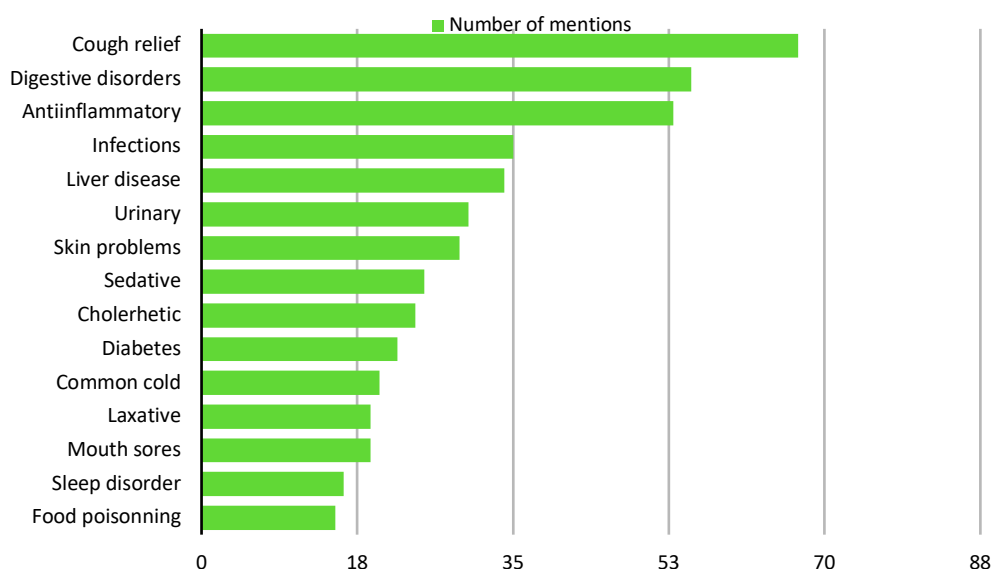


Figure 5. Distribution of medicinal plant uses across different disease categories, showing the number of use-reports recorded for each category.

Discussion

Through comparison of the recorded plant species and their corresponding uses in our dataset with those in the cited papers, we discerned both consistencies and discrepancies in the acquired ethnobotanical knowledge. As mentioned earlier, our study is the first ethnobotanical and ethnopharmacological investigation conducted in the Diabar region; therefore, we chose to compare existing research carried out in Azerbaijan and neighboring countries, including northern Iran, Turkey, and Georgia (Görhan *et al.* 2021). Overall, such comparisons with regional ethnobotanical studies highlight both similarities and differences in medicinal plant use (Bussmann *et al.* 2016; Bussmann *et al.* 2018; Pieroni & Sökand 2019; Sökand & Pieroni 2019; Younessi-Hamzekhanlu *et al.* 2020). While a high diversity of plant species has been documented across these regions, our findings show only limited overlap with those reported for the Diabar region.

Fourteen plants recorded in our survey are listed in the work of Ibadullayeva, with similar or differing medicinal use reports (Ibadullayeva *et al.* 2010; Ibadullayeva 2020). For instance, *Spinacia oleracea* L. and *Allium cepa* L. show alignment in therapeutic uses. In the case of *Amaranthus sylvestris*, treatment of diabetes and its use as a laxative noted in our report contrasts with the more general “use in digestive disorders.” *Beta vulgaris* L. showed a discrepancy in use: treatment of liver disease by informants vs. anemia reported by Ibadullayeva — possibly reflecting regional or cultural variations.

In addition, our findings are consistent with our previous ethnopharmacological study conducted in the Gadabay region of Azerbaijan (Isayev *et al.* 2025b), where traditional medicinal knowledge was also predominantly preserved among older generations and similar dominant plant families, including Asteraceae, Apiaceae, Rosaceae, and Lamiaceae, were reported. However, unlike the Gadabay study, which focused specifically on the treatment of urological diseases, the present research covers a broader range of ailments and provides a more comprehensive analysis of medicinal plant use in the Diabar region.

Furthermore, our findings can be compared with our previous quantitative ethnobotanical study conducted in the Zagatala District of Azerbaijan (Isayev *et al.* 2026), which documented 121 medicinal plant taxa belonging to 44 families. Similar to the present study, dominant families such as Asteraceae, Lamiaceae, and Rosaceae were prominently represented,

indicating consistent ethnopharmacological patterns across different regions of the country. In both studies, species such as *Cydonia oblonga* and *Thymus* spp. were identified as culturally important taxa with high quantitative indices.

In contrast, the present study revealed a substantially higher species diversity (205 species across 60 families), reflecting regional ecological variation and broader documentation of traditional knowledge in the Diabar region. Additionally, while both studies applied quantitative ethnobotanical indices, differences in the most cited species and therapeutic categories highlight the influence of local environmental conditions and cultural practices on medicinal plant use.

Twenty-eight plant taxa showed alignment with the ethnopharmacological study conducted in Khoy city, West Azerbaijan-Iran (Younessi-Hamzekhanlu *et al.* 2020). *Malva neglecta* Wallr., *Ficus carica* L., and *Verbascum thapsus* L. were cited for analogous therapeutic uses. *Morus alba*, *M. nigra*, *Punica granatum*, and *Portulaca oleracea* L. exhibited distinct medicinal applications compared with our observations. Despite differences in total species richness, both studies identified similar dominant families, including Asteraceae, Lamiaceae, Rosaceae, Fabaceae, and Apiaceae, suggesting common ethnopharmacological patterns across the region.

Twenty-nine taxa from our list were recorded in Ethnobotany of the Caucasus with broadly similar pharmacological uses (Bussmann 2017). In addition to comparative alignment of use-reports, the quantitative results of the present study also provided internal evidence of culturally preferred taxa and families. Asteraceae and Lamiaceae were the most represented families in the dataset and achieved high FIV scores, indicating that these families were repeatedly cited and highly valued in the local materia medica. Herbs were the dominant life-form, followed by trees and shrubs, suggesting that easily accessible taxa are more frequently integrated into remedies. Whole herbs, fruits, and leaves were the most commonly used plant parts, whereas roots, seeds, and bulbs were less frequently used — a pattern also reported in ethnomedicinal surveys from Pakistan and surrounding regions (Ullah *et al.* 2023; Irfan *et al.* 2023; Ullah *et al.* 2024).

In our study, species such as *Cydonia oblonga*, *Thymus* spp., *Morus nigra*, and *Rosa canina* attained high RFC and UV values, demonstrating their broad acceptability across respondents. Informant Consensus Factor values were highest for respiratory and digestive disorders, indicating widely shared traditional knowledge in these categories. Overall, the distribution of dominant plant families, habit types, plant parts used, and index-based rankings reinforces that medicinal plant use in the Diabar region follows clear cultural patterns rather than random selection.

This study has several limitations. Although the study area includes multiple ethnic groups, the data were analyzed collectively and therefore do not allow for comparative assessment among them. Furthermore, the cross-sectional design limits the ability to capture temporal variations in plant use. The data were based on self-reported information and may be subject to recall bias and subjective interpretation. Cultural factors may have constrained the willingness of some informants to disclose detailed knowledge. In addition, a preference for modern pharmaceuticals among certain participants may have influenced the reporting of plant-based practices.

Future research should prioritize the phytochemical and pharmacological evaluation of the most frequently cited plant species. The findings of this study will be disseminated among local communities to enhance awareness and support the preservation of ethnobotanical knowledge. Expanding investigations across diverse regions of Azerbaijan and over extended time frames will provide a more comprehensive understanding of the diversity and dynamics of traditional medicinal knowledge. In addition, comparative studies focusing on the same ethnic groups across different regions will offer valuable insights into spatial variations in traditional plant use and knowledge systems.

Conclusion

The health system in the Diabar region is shaped by its rural and mountainous context, combining conventional medicine with traditional practices involving the use of medicinal plants in their natural form or homemade remedies. This study allowed us to yield significant insights into these practices and identify areas for additional investigation or validation. Further research could focus on plants used by the Talysh ethnic group living in other regions of Azerbaijan, including Shirvan, Bilesuvar, Absheron and Sumgayit. Comparison of medicinal plant uses between different ethnicities living in Azerbaijan can help to understand the general approach to healing with plants that is used in the country, and also plants with consistent uses across the country could be prioritized for further phytochemical research and pharmacological validation.

Declarations

List of abbreviations: Not applicable.

Ethics approval and consent to participate: Prior to each interview, the aims of the study were explained to all participants, and verbal informed consent was obtained. Approval to conduct the study was granted by local authorities and community representatives. As the research involved non-clinical ethnobotanical data collection without medical intervention or the recording of sensitive personal health information, formal institutional ethical approval was not required. All procedures were carried out in accordance with accepted ethical standards for research involving human participants and followed the International Society of Ethnobiology Code of Ethics (ISE 2006). Participant anonymity was ensured throughout data collection, analysis, and reporting.

Consent for publications: Not applicable.

Availability of data and materials: The figures and tables supporting the results of this study are included in the article, and the original data sets are available from the first author upon request.

Competing interests: The authors declare that there are no conflicts of interest in this article.

Funding: Authors have not received any funding during this research.

Authors' contributions: J.I.I. conceptualized the study, led the overall research design, personally participated in field expeditions and community surveys, supervised the field and analytical phases, ensured scientific quality, and critically revised the final manuscript.

Kh.M.N. contributed to the core scientific concept, guided methodological development, and provided substantial intellectual input to data interpretation and manuscript preparation.

N.B.T., N.S.M., A.G.I., and G.J.S. conducted field surveys, administered questionnaires, collected ethnobotanical data, and assisted in initial data handling and draft preparation.

K.U.R., G.M.Sh., I.Kh. and F.U. contributed to scientific collaboration, supported methodological validation, and assisted in comparative literature review and contextual analysis.

All authors read and approved the final manuscript.

Literature cited

Abdelfettah B, Soltani Y, Toumi MN, Toumi F, Bouzidi MA. 2026. Medicinal plants used in traditional management of breast cancer: An ethnobotanical survey in Sidi Bel Abbès and Saïda, Northwestern Algeria. *Ethnobotany Research and Applications* 33:13. doi: 10.32859/era.33.13.1-21

Alakbarli F. 2001. Medicinal plants used in traditional medicine of medieval Azerbaijan. In: *Traditional Medicine and Materia Medica*. Vol. 1. Traditional Medicine and Materia Medica Research Center, Tehran.

Ali A, Jan G, Irfan M, Jan FG, Ullah F. 2023. Quantitative ethnomedicinal study of the flora of Tehsil Lahor, District Swabi, Khyber Pakhtunkhwa, Pakistan. *Ethnobotany Research and Applications* 25:64. doi: 10.32859/era.25.64.1-21

Ali S, Din S, Shah SA, Hussain W, Bussmann RW. 2026. Traditional knowledge and utilization of wild edible plants in Swat district, Pakistan: implications for nutrition and food security. *Journal of Ethnobiology and Ethnomedicine* 22:9. doi: 10.1186/s13002-026-00850-3

Asgarov A. 2016. *Azərbaycanın bitki aləmi*. Bakı, Azerbaijan.

Asghar A, Badshah L, Hussain F. 2018. Ethnobotanical appraisal and conservation status of medicinal plants in Hindukush Range, District Swat, Pakistan. *Journal of Herbs, Spices and Medicinal Plants* 24(4):332–355. doi: 10.1080/10496475.2018.1510456

Ayub M, Shah GM, Irfan M, Ullah F, Ullah A. 2023. Ethnomedicinal study of the flora of Sellay Pattay Valley, District Malakand, Khyber Pakhtunkhwa, Pakistan. *Ethnobotany Research and Applications* 26:32. doi: 10.32859/era.26.32.1-17

Birjees M, Ahmad M, Zafar M, Nawaz S, Jehanzeb S, Ullah F, Zaman W. 2022. Traditional knowledge of wild medicinal plants used by the inhabitants of Garam Chashma Valley, District Chitral, Pakistan. *Acta Ecologica Sinica* 42(2):19–33. doi: 10.1016/j.chnaes.2020.12.006

Bussmann RW (ed). 2017. *Ethnobotany of the Caucasus*. Springer, Cham, Switzerland.

Bussmann RW, Paniagua ZNY, Sikharulidze S, Kikvidze Z, Kikodze D, Tchelidze D, Batsatsashvili K, Hart RE. 2016. Medicinal and food plants of Svaneti and Lechkhumi, Sakartvelo (Republic of Georgia), Caucasus. *Med Aromat Plants (Los Angel)* 5:5. doi: 10.4172/2167-0412.1000266

Bussmann RW, Paniagua Zambrana NY, Sikharulidze S, Kikvidze Z, Kikodze D, Tchelidze D, Batsatsashvili K, Hart RE, Robbie E. 2018. Unequal brothers—Plant and fungal use in Guria and Racha, Sakartvelo (Republic of Georgia), Caucasus. *Indian Journal of Traditional Knowledge* 17(1):7–33.

- Convention on Biological Diversity. 2000. First National Report of Azerbaijan. <https://www.cbd.int/doc/world/az/az-nr-01-p1-en.pdf> (Accessed 26 January 2025)
- Damirov IA, Prilipko LI, Shukurov DZ, Kerimov YB. 1983. Medical plants of Azerbaijan. Baku, Azerbaijan.
- Doğan Ş, Tinas RF, Yeşil Y. 2026. Ethnobotanical uses of Plantaginaceae taxa in Türkiye. *Ethnobotany Research and Applications* 33:58. doi: 10.32859/era.33.58.1-24
- Etkin NL. 1993. Anthropological methods in ethnopharmacology. *Journal of Ethnopharmacology* 38(2–3):91–112. doi: 10.1016/0378-8741(93)90003-N
- Gadimli AI, Suleymanova TH, Isayev JI. 2024. Study of antimicrobial and antifungal properties of some species of *Gentiana L.* distributed in Azerbaijan. *Azerbaijan Medical Journal* 2:131–135. doi: 10.34921/amj.2024.65.47.001
- Görhan KÖ, Öztürk F. 2021. Ethnopharmacological survey of medicinal and food plants in Derecik (Hakkari-Turkey). *Indian Journal of Traditional Knowledge* 20(2):416–425.
- Grossheim AA. 1949. *Opredelitel Rastenij Kavkaza*. Sovetskaja Nauka, Moscow, Russia.
- Haq A, Badshah L, Ali A, Ullah A, Khan SM, Ullah I. 2022. Ethnobotanical study of medicinal plants of Pashat Valley, Bajaur, along Pakistan–Afghanistan border: a mountainous region of the Hindu Kush Range. *Nordic Journal of Botany* 2022(11):20. doi: 10.1111/njb.03580
- Hardiman A, Juhriah J, Slamet S. 2025. Ethnobotany of medicinal plants by the community in Langgudu Sub-district, Bima District, West Nusa Tenggara, Indonesia. *Biodiversitas* 26(1):315–325. doi: 10.13057/biodiv/d260131
- Hedges K, Evan T, Kipila JO. 2026. The ethnomedicinal plants of Purko, Maasai in Central Narok, Kenya. *Ethnobotany Research and Applications* 33:25. doi: 10.32859/era.33.25.1-9
- Heydar Aliyev Foundation. 2025. Azerbaijan – Land of Tolerance. https://multiculturalism.preslib.az/en_a1.html (Accessed 10 January 2025).
- Hussain S, Hussain W, Nawaz A, Badshah L, Ali A, Ullah S, Ali M, Hussain H, Bussmann RW. 2022. Quantitative ethnomedicinal study of indigenous knowledge on medicinal plants used by the tribal communities of Central Kurram, Khyber Pakhtunkhwa, Pakistan. *Ethnobotany Research and Applications* 23:1–31.
- Ibadullayeva SJ. 2020. Ethnobotany of Local used Medicinal Plants in Azerbaijan Republic. *Journal of Medicine and Biology* 2(2).
- Ibadullayeva SJ, Mamedova SE, Sultanova ZR, Movsumova NV, Jafarli IA. 2010. Medicinal plants of Azerbaijan flora used in the treatment of certain diseases. *African Journal of Pharmacy and Pharmacology* 4(8):545–548. doi: 10.5897/AJPP.9000205
- Irfan M, Jan G, Murad W, Jan FG, Rauf A, Alsayari A, Almarhoon ZM, Mabkhot YN. 2024. Ethnomedicinal and traditional uses of the Ferns of Khyber Pakhtunkhwa, Pakistan. *Brazilian Journal of Biology* 84:e250256. doi: 10.1590/1519-6984.250256
- Irfan M, Ullah F, Haq IU. 2023. Ethnomedicinal and traditional uses of the flora of District Lower Dir, Khyber Pakhtunkhwa, Pakistan. *Ethnobotany Research and Applications* 26:1–22.
- Isaev DI, Mikhailenko OA, Gurbanov GM, Kovalev VN. 2016. Constituents of essential oils from Azerbaijan *Iris medwedewii* and *I. carthaliniae* rhizomes. *Chemistry of Natural Compounds* 52(4):748–750. doi: 10.1007/s10600-016-1764-7
- Islamova ZB, Khojimatov OK, Bussmann RW, Islamov B, Khaydarov K. 2026. Ethnomedicinal use and biological properties of *Biebersteinia multifida* DC. in Uzbekistan. *Ethnobotany Research and Applications* 33:43. doi: 10.32859/era.33.43.1-13
- Isayev JI. 2006. Studying of pharmacological characteristics and medical use of some plants in the flora of Azerbaijan. *Azerbaijan Medical Journal* 2:48–54.
- Isayev CI, Hajiyeva EM, Babayeva NT, Jafarova GS, Safarova NM, Gadimli AI. 2024. Ethnopharmacological study of the treatment of diseases of the digestive system in the geobotanical region of Azerbaijan Nakhchivan highlands. *Azerbaijan Medical Journal* 4:151–157. doi: 10.34921/amj.2024.4.024
- Isayev JI, Hajiyeva EM, Mustafayeva KhN, Yagubov KM, Babayeva NT, Safarova NM, Gadimli AI, Jafarova GS. 2024b. Ethnopharmacological study of the treatment of diseases of the respiratory system in the Zuvand geobotanical territory of Azerbaijan. *Azerbaijan Medical Journal* 3:121–127. doi: 10.34921/amj.2024.3.021
- Isayev JI, Babayeva NT, Jafarova GS, Mustafayeva KhN, Hajiyeva EM, Safarova NM, Gadimli AI. 2025. Ethnopharmacological study of the treatment of cardiovascular diseases in the Guba mountain geobotanical region of Azerbaijan. *Azerbaijan Medical Journal* 1:171–176. doi: 10.34921/amj.2025.1.030
- Isayev JI, Hajiyeva EM, Babayeva NT, Jafarova GS, Safarova NM, Gadimli AI. 2025b. Ethnopharmacological study of the treatment of urological diseases in the territory of the Gadabay region in the Republic of Azerbaijan. *Azerbaijan Medical Journal* 4:118–123. doi: 10.34921/amj.2025.4.019

- Isayev JI, Jafarova GS, Safarova NM, Hajiyeva EM. 2026. Quantitative ethnobotanical assessment of medicinal plants in Zagatala District, Azerbaijan. *Biodiversitas* 27 (3): d270309. doi: 10.13057/biodiv/d270309
- Isayev JI, Mykhailenko OO, Kovalyov VM, Gurbanov GM, Suleymanov MY. 2017. Gas chromatography-mass spectrometry studies of the component composition of carboxylic acids of the rhizomes of *Iris medwedewii* and *Iris carthaliniae* (Iridaceae). *Ceska a Slovenska Farmacie* 66(1):9–14. doi: 10.36290/csf.2017.002
- ISE. 2006. International Society of Ethnobiology Code of Ethics (with 2008 additions). International Society of Ethnobiology. Accessed 10 June 2025.
- Jalali S, Ghahremaninejad F, Nazari H, Bussmann RW. 2026. Documentation of medicinal plant use in Karaj, Iran: An urban ethnobotanical study of herbal markets and shops. *Ethnobotany Research and Applications* 33:8. doi: 10.32859/era.33.8.1-27
- Jan S, Jan G, Irfan M, Jan FG, Ullah F, Saeed M. 2024. Ethnomedicinal uses of the flora of Kohimoor Baba valley, Tribal District Bajaur, Khyber Pakhtunkhwa, Pakistan. *Ethnobotany Research and Applications* 28:1–19.
- Karakaya S, Polat A, Aksakal Ö, Sümbüllü YZ, Incekara Ü. 2020. Ethnobotanical study of medicinal plants in the Aziziye district (Erzurum, Turkey). *Turkish Journal of Pharmaceutical Sciences* 17(2):211–220. doi: 10.4274/tjps.galenos.2019.24392
- Karyagin II (ed.). 1957. *Flora of Azerbaijan*, Vol. 7. Baku: Academy of Sciences of the Azerbaijan SSR.
- Kerimov YB, Isayev JI. 2010. Pharmacognostic study of medicinal plants flora of Azerbaijan and prospect of their use. *Azerbaijan Pharmaceutical and Pharmacotherapy Journal* 10(2):13–18.
- Barkatullah, Khan M, Ahmad H, Khan MS, Razzaq A. 2018. Ethnobotanical indices based ethnoveterinary plant profile of Jabban hills, Malakand and Hindukush range, Pakistan. *Pakistan Journal of Botany* 50(5):1899–1905.
- Leonti M. 2022. The relevance of quantitative ethnobotanical indices for ethnopharmacology and ethnobotany. *Journal of Ethnopharmacology* 288:115008. doi: 10.1016/j.jep.2022.115008
- Lerik District Executive Power. 2025. About Lerik. <http://www.lerik-ih.gov.az/az/page/17.html> (Accessed 10 January 2025).
- Maataoui J, Abduljaber M, Bussmann RW, Khaddor M. 2026. Ethnobotanical study of *Cymbopogon citratus* (lemongrass) in Northern Morocco: Traditional uses and phytochemical composition. *Ethnobotany Research and Applications* 33:41. doi: 10.32859/era.33.41.1-20
- Mamedov N, Mehdiyeva NP, Craker LE. 2015. Medicinal plants used in traditional medicine of the Caucasus and North America. *Journal of Medicinally Active Plants* 4(3–4):42–66. doi: 10.7275/R51834DS
- Martin GJ. 1995. *Ethnobotany: A methods manual*. Chapman & Hall, London, U.K.
- Olennikov DN, Gadimli AI, Isaev JI, Kashchenko NI, Prokopyev AS, Kataeva TN, Chirikova NK, Vennos C. 2019. Metabolic profiling and antioxidant activity of *Gentiana* species. *Metabolites* 9(11):271. doi: 10.3390/metabo9110271
- Olennikov DN, Kashchenko NI, Gadimli AI, Isaev DI. 2022. Polysaccharides from three species of *Gentiana*. *Chemistry of Natural Compounds* 58(5):799–803. doi: 10.1007/s10600-022-03801-y
- Phillips O, Gentry AH, Reynel C, Wilkin P, Gálvez-Durand BC. 1994. Quantitative ethnobotany and Amazonian conservation. *Conservation Biology* 8(1):225–248.
- Pieroni A, Sökand R. 2019. Ethnic and religious affiliations affect traditional wild plant foraging in Central Azerbaijan. *Genetic Resources and Crop Evolution* 66:1495–1513.
- Plants of the World Online. 2025. Royal Botanic Gardens, Kew. <https://powo.science.kew.org> (Accessed 20 January 2025).
- Quinlan MB, Quinlan RJ, Nolan JM. 2002. Ethnophysiology and herbal treatments of intestinal worms in Dominica, West Indies. *Journal of Ethnopharmacology* 80(1):75–83.
- Rehman S, Iqbal Z, Qureshi R, Shah GM, Irfan M. 2023. Ethnomedicinal plants uses for the treatment of respiratory disorders in tribal District North Waziristan, Khyber Pakhtunkhwa, Pakistan. *Ethnobotany Research and Applications* 25:11. doi: 10.32859/era.25.11.1-16
- Safarova NM, Isayev JI. 2022. Validation of the method of spectrophotometric quantitative determination of the total flavonoid content in *Campanula saxifraga* subsp. *aucheri* (A.DC.) Ogan. *Azerbaijan Pharmaceutical and Pharmacotherapy Journal* 22(2):41–47. doi: 10.58495/YESI7737
- Sökand R, Pieroni A. 2019. Resilience in the mountains: biocultural refugia of wild food in the Greater Caucasus Range, Azerbaijan. *Biodiversity and Conservation* 28(13):3529–3545.
- State Statistical Committee of the Republic of Azerbaijan. 2025. Demography. <https://www.stat.gov.az/source/demography> (Accessed 10 January 2025).

- Ullah F, Irfan M, Khan K, Khatoon S, Khalil S, Zubair M, Zainab R, Saeed M, Sher A. 2024. Quantitative assessment of the medicinal flora of Gadoon valley, District Swabi, Khyber Pakhtunkhwa, Pakistan. *Ethnobotany Research and Applications* 27:52. doi: 10.32859/era.27.52.1-18
- Ullah F, Irfan M, Saeed M. 2023. Quantitative ethnomedicinal study of the flora of district Swabi, Khyber Pakhtunkhwa, Pakistan. *Ethnobotany Research and Applications* 26:1–26.
- Umair M, Altaf M, Abbasi AM. 2017. An ethnobotanical survey of indigenous medicinal plants in Hafizabad district, Punjab-Pakistan. *PLOS ONE* 12(6):e0177912. doi: 10.1371/journal.pone.0177912
- USAID. 2020. Azerbaijan agricultural sector assessment report. https://pdf.usaid.gov/pdf_docs/PA00WFGD.pdf (Accessed 26 January 2025).
- World Flora Online (WFO) 2023. <https://wfoplantlist.org> (Accessed 15 January 2025).
- World Wide Fund for Nature (WWF) 2025. <https://www.worldwildlife.org> (Accessed 20 January 2025).
- WWF Azerbaijan. 2025. https://wwf.panda.org/wwf_offices/azerbaijan (Accessed 26 January 2025).
- Younessi-Hamzekhanlu M, Ozturk M, Altay V, Nojadeh MS, Alakbarli F. 2020. Ethnopharmacological study of medicinal plants from Khoy city of West Azerbaijan, Iran. *Indian Journal of Traditional Knowledge* 19(2):251–267.

Supplementary Table S1. Ethnopharmacological data on the uses of medicinal plant species in Diabar region, Azerbaijan.

Plant family	Latin name	Vernacular name	Disease category	Citation	ΣU	FIV	UV	FC	RFC
Amaranthaceae	<i>Amaranthus sylvestris</i> Desf. AZE-IJ-001	Pəncər, amarant torə	Diabetes	21	24	27.4	0.17	34	0.24
			Laxative	13					
	<i>Beta vulgaris</i> L. AZE-IJ-027	Çuğundurçağında	Liver disease	47	55		0.39	74	0.53
			Diabetes	8					
<i>Spinacia Oleracea</i> L. AZE-IJ-178	İspanaqsiveğ, ispanag	Laxative	19						
		Digestive disorder	33	36		0.26	58	0.41	
Amaryllidaceae	<i>Allium cepa</i> L. AZE-IJ-007	Soğanpiyoz	Holagogue	25					
			Infections	51	63	40.48	0.45	132	0.94
			Antiinflammatory	45					
	<i>Allium lenkoranicum</i> Miscz ex Grossh. AZE-IJ-008	Lənkəran soğanı	Common cold	36					
			Infections	20	29		0.21	62	0.44
			Diabetes	17					
<i>Allium sativum</i> L. AZE-IJ-009	Sarımsaqsi	Mouth sores	25						
		Infections	51	78		0.56	113	0.81	
		Common cold	22						
Anacardiaceae	<i>Pistacia vera</i> L. AZE-IJ-134	Püstə	Digestive disorder	40					
			Liver disease	31	27	26.07	0.19	35	0.25
	<i>Rhus coriaria</i> L. AZE-IJ-153	Sumaqtım, sumax	Laxative	26					
Digestive disorder			69	46		0.33	66	0.47	
Apiaceae	<i>Anethum graveolens</i> L. AZE-IJ-015	Şüyüd	Skin problems	12					
			Food poisoning	35	41	30.79	0.29	76	0.54
			Sedative	24					
			Sleep disorder	17					

<i>Bunium scabrellum</i> Korovin AZE-IJ-030	Bunçətiri	Urinary	7	16	0.11	39	0.28
		Sedative	11				
		Common cold	15				
		Sleep disorder	6				
<i>Carum carvi</i> L. AZE-IJ-038	Zirə	Cough relief	49	73	0.52	149	1.06
		Cough relief	34				
		Sedative	14				
		Digestive disorder	52				
<i>Coriandrum sativum</i> L. AZE-IJ-048	Keşnişkeşnə	Holagogue	42	68	0.49	118	0.84
		Sedative	19				
		Digestive disorder	57				
<i>Daucus carota</i> L. AZE-IJ-061	Kökbümərişə	Liver disease	28	41	0.29	75	0.54
		Holagogue	33				
		Mouth sores	14				
<i>Eryngium caucasicum</i> Trautv. AZE-IJ-070	Zımbirtikan	Skin problems	14	14	0.1	14	0.1
<i>Falcaria vulgaris</i> Bernh. AZE-IJ-075	Qazayağı	Analgetic	7	13	0.09	19	0.14
		Sedative	12				
<i>Foeniculum vulgare</i> Mill. AZE-IJ-077	Razyana	Cough relief	56	77	0.55	160	1.14
		Mucolytic	22				
		Food poisoning	10				
		Holagogue	25				
		Flatulence	47				
<i>Pimpinella anisum</i> L. AZE-IJ-132	Cirə	Cough relief	40	52	0.37	110	0.79
		Mucolytic	25				
		Sleep disorder	17				
		Flatulence	28				

	<i>Pimpinella tragiium</i> Vill. AZE-IJ-133	Qatışıq cirə	Cough relief	33	36		0.26	53	0.38
			Mucolytic	20					
Araliaceae	<i>Hedera pastuchovii</i> Woronow. AZE-IJ-084	Daşsarmaşığı	Cough relief	19	19	13.57	0.14	44	0.31
			Mucolytic	25					
Asparagaceae	<i>Bellevalia fominii</i> Woronow. AZE-IJ-025	Bellevalia	Antiinflammatory	12	12	15.29	0.09	12	0.09
	<i>Danae racemosa</i> (L.) Monech. AZE-IJ-060	Danaya	Infections	23	25		0.18	40	0.29
			Urinary	17					
	<i>Muscari neglectum</i> Guss. AZE-IJ-113	İlan soğanı	Cough relief	15	15		0.11	15	0.11
	<i>Ornithogalum hyrcanum</i> Grossh. AZE-IJ-127	Xıncalaus	Cough relief	35	41		0.29	56	0.4
			Mucolytic	21					
	<i>Scilla caucasica</i> Misch. AZE-IJ-165	Zümrüdçiçəyi	Allergy	9	14		0.1	27	0.19
			Tonuslandırıcı	7					
			Urinary	11					
Asteraceae	<i>Achillea biebersteinii</i> Afan. AZE-IJ-003	Biberşteyn boymadərani	Infections	17	39	27.45	0.28	89	0.64
			Skin problems	22					
			Liver disease	19					
			Food poisoning	11					
			Digestive disorder	20					
	<i>Achillea millefolium</i> L. AZE-IJ-004	Boymadərən	Infections	62	77		0.55	157	1.12
			Antiinflammatory	46					
			Liver disease	33					
			Mouth sores	16					
	<i>Anthemis altissima</i> L. AZE-IJ-016	Cığır gözü	Liver disease	7	18		0.13	37	0.26
			Holagogue	11					

		Analgetic	6					
		Urinary	13					
<i>Arctium lappa</i> L. AZE-IJ-017	Atpitrağı	Cough relief	20	57	0.41	114	0.81	
		Mucolytic	33					
		Skin problems	12					
		Diabetes	17					
		Laxative	8					
		Joint pain	24					
<i>Artemisia vulgaris</i> L. AZE-IJ-019	Yovşantelə keşni	Infections	26	32	0.23	58	0.41	
		Skin problems	10					
		Allergy	6					
		Sedative	16					
<i>Bidens tripartita</i> L. AZE-IJ-028	Üçbarmaq	Infections	25	41	0.29	116	0.83	
		Skin problems	29					
		Allergy	35					
		Tonuslandırıcı	11					
		Urinary	16					
<i>Calendula persica</i> C.A. Mey AZE-IJ-032	Gülümbaharçoşdaxor	Infections	40	69	0.49	158	1.13	
		Skin problems	23					
		Antiinflammatory	28					
		Urinary	22					
		Women's disease	45					
<i>Carthamus tinctorius</i> L. AZE-IJ-037	Ulaqqanqalı	Skin problems	5	37	0.26	79	0.56	
		Liver disease	41					
		Holagogue	33					
<i>Centaurea cyanus</i> L. AZE-IJ-039	Göyçiçək	Antipyreticı	15	24	0.17	36	0.26	
		Sleep disorder	21					

<i>Centaurea hyrcanica</i> Bornm. AZE-IJ-040	Hirkan gülləvəri	Mouth sores	7	26	0.19	45	0.32
		Sleep disorder	17				
		Hairloss	21				
<i>Centaurea ovina</i> Pall. ex Willd. AZE-IJ-041	Qoyun gülləvəri	Food poisoning	19	23	0.16	35	0.25
		Mouth sores	16				
<i>Centaurea salicifolia</i> M.Bieb. ex Willd. AZE-IJ-042	Söyüdyarpaq gülləvər	Infections	25	41	0.29	91	0.65
		Diabetes	17				
		Urinary	33				
		Sedative	16				
<i>Cichorium intybus</i> L. AZE-IJ-045	Kasrı	Cough relief	31	60	0.43	149	1.06
		Mucolytic	27				
		Digestive disorder	41				
		Diabetes	50				
<i>Cirsium cinerlus</i> Bieb. AZE-IJ-046	Qanqal	Antipyretic	7	10	0.07	15	0.11
		Common cold	8				
<i>Echinops orientalis</i> Trautv. AZE-IJ-066	Toppuztikan	Digestive disorder	14	14	0.1	140	1
<i>Hieracium cinctatum</i> Fries. AZE-IJ-088	Qırğiotu	Sedative	5	14	0.1	17	0.12
		Common cold	12				
<i>Helichrysum araxinum</i> Takht. et Kirp. AZE-IJ-085	Azərbaycan solmazçıçəyi	Holagogue	51	60	0.43	74	0.53
		Digestive disorder	23				
<i>Helichrysum plicatum</i> DC. AZE-IJ-086	Qatlı solmazçıçək	Holagogue	44	51	0.36	81	0.58
		Digestive disorder	37				
<i>Inula orientalis</i> Lam. AZE-IJ-092	Andız	Cough relief	51	64	0.46	107	0.76
		Mucolytic	19				

		Diabetes	27					
		Laxative	10					
<i>Lactuca sativa</i> L. AZE-IJ-096	Kahıkaüü	Digestive disorder	41	47	0.34	67	0.48	
		Urinary	26					
<i>Laphangium luteo-album</i> (L.) Tzvelev AZE-IJ-099	Qurucaotu	Liver disease	20	24	0.17	36	0.26	
		Allergy	7					
		Cough relief	9					
<i>Onopordum acanthium</i> L. AZE-IJ-122	Çaqqal qanqalı	Antiinflammatory	7	7	0.05	7	0.05	
<i>Scorzonera leptophylla</i> (DC.) Grossh. AZE-IJ-166	Nazıkyarpaq təkəsəqqalı	Laxative	10	21	0.15	29	0.21	
		Infections	19					
<i>Scorzonera parviflora</i> Jacq. AZE-IJ-167	Xırdagül təkəsəqqalı	Laxative	23	23	0.16	23	0.16	
<i>Silybum marianum</i> (L.) Gaertn. AZE-IJ-175	Alaqañqal	Liver disease	49	58	0.41	105	0.75	
		Holagogue	34					
		Laxative	22					
<i>Sonchus oleraceus</i> L. AZE-IJ-177	Südotu	Skin problems	21	30	0.21	46	0.33	
		Antiinflammatory	25					
<i>Taraxacum montanum</i> DC. AZE-IJ-183	Acıqovuş	Liver disease	44	51	0.36	70	0.5	
		Holagogue	26					
<i>Tragopogon sosnowskyi</i> Kuth. AZE-IJ-187	Yemlik	Liver disease	24	29	0.21	44	0.31	
		Appetizer	20					
<i>Tussilago farfara</i> L. AZE-IJ-191	Dəvədabanı	Cough relief	77	85	0.61	122	0.87	
		Mucolytic	45					
<i>Xanthium spinosum</i> L. AZE-IJ-200	Pıtraq	Digestive disorder	8	21	0.15	36	0.26	

			Joint pain	11					
			Tumors	17					
Berberidaceae	<i>Berberis vulgaris</i> L. AZE-IJ-026	Zirinc	Holagogue	53	61	43.57	0.44	99	0.71
			Digestive disorder	46					
Betulaceae	<i>Alnus subcordata</i> C.A.Mey. AZE-IJ-010	Qızılağac	Diarrhea	33	43	30.71	0.31	59	0.42
			Antiinflammatory	26					
Boraginaceae	<i>Onosma microcarpa</i> DC. AZE-IJ-123	Onosma	Tumors	12	12	11.19	0.09	12	0.09
	<i>Symphytum asperum</i> Lepech. AZE-IJ-181	Bərk xəndəkotu	Antiinflammatory	6	16		0.11	20	0.14
			Tumors	14					
	<i>Symphytum caucasicum</i> M.Bieb. AZE-IJ-182	Qafqaz xəndəkotu	Tumors	18	19		0.14	22	0.16
			Urinary	4					
Brassicaceae	<i>Alyssum trichostachum</i> Rupr. AZE-IJ-013	Çuğundurətu	Skin problems	8	22		0.16	34	0.24
			Antipyreticsı	16					
			Urinary	10					
	<i>Brassica oleracea</i> L. AZE-IJ-029	Kələmkalem	Diabetes	14	69		0.49	107	0.76
			Joint pain	40					
			Digestive disorder	53					
	<i>Capsella bursa-pastoris</i> Medik. AZE-IJ-035	Quşəppəyikijə pəni	Liver disease	45	67		0.48	132	0.94
			Holagogue	37					
			Urinary	50					
	<i>Erysimum argyrocarpum</i> N.Busch. AZE-IJ-071	İsitməotu	Cardiac	12	14	37	0.1	28	0.2
			Antiinflammatory	16					
	<i>Rhaphanus sativus</i> L. AZE-IJ-152	Turptəyf	Cough relief	60	87		0.62	191	1.36
			Mucolytic	54					
			Digestive disorder	77					

Buxaceae	<i>Buxus hyrcana</i> Pojark. AZE-IJ-031	Şümşət	Infections	9	15	10.71	0.11	22	0.16
			Tumors	13					
Campanulaceae	<i>Campanula rapunculoides</i> L. AZE-IJ-033	Zəngçiçəyi	Allergy	13	16	12.14	0.11	31	0.22
			Analgetic	6					
			Mouth sores	12					
	<i>Asyneuma amplexicaule</i> (Willd.) Hand.-Mazz. AZE-IJ-022	Asineoma	Antiinflammatory	4	18		0.13	21	0.15
			Sedative	2					
			Common cold	15					
Cannabaceae	<i>Humulus lupulus</i> L. AZE-IJ-091	Mayasarmaşığı	Cardiac	17	53	37.86	0.38	84	0.6
			Sedative	40					
			Sleep disorder	27					
Capparaceae	<i>Capparis herbacea</i> Willd. AZE-IJ-034	Kövər	Antiinflammatory	19	52	37.14	0.37	64	0.46
			Digestive disorder	45					
Caryophyllaceae	<i>Dianthus talyschensis</i> Boiss.&Buhse AZE-IJ-062	Qərənfil	Skin problems	15	18	19.35	0.13	32	0.23
			Antiinflammatory	10					
			Sedative	7					
	<i>Stellaria holostea</i> L. AZE-IJ-180	Cinciliməğjor	Diabetes	28	66		0.47	97	0.69
			Urinary	12					
			Digestive disorder	57					
	<i>Silene schafta</i> J.G.Gmel. ex Hohen. AZE-IJ-173	Qoyunqulağı	Common cold	7	14		0.07	18	0.09
			Infections	11					
	<i>Silene talyschensis</i> Schischk. AZE-IJ-174	Talış qoyunqulağı	Antiinflammatory	9	15		0.11	23	0.16
			Infections	14					
Celastraceae	<i>Euonymus velutinus</i> Fisch. et C.A.Mey. AZE-IJ-072	Gərmaşov	Antiinflammatory	20	31	22.14	0.22	45	0.32

			Urinary	25					
Colchicaceae	<i>Merendera candidissima</i> Miscz. ex Grossh. AZE-IJ-110	Danaqıran	Diabetes	15	26	18.57	0.19	36	0.26
			Urinary	21					
Cornaceae	<i>Cornus mas</i> L. AZE-IJ-049	Zoğalzoğal	Infections	27	32	22.86	0.23	38	0.27
			Liver disease	11					
Crassulaceae	<i>Rosularia cymbalaria</i> L. AZE-IJ-157	Çətircik	Antiinflammatory	4	9	6.43	0.06	11	0.08
			Infections	7					
Cucurbitaceae	<i>Cucurbita maxima</i> Duchesne AZE-IJ-057	Balqabaq, boranıkü	Digestive disorder	70	86	41.43	0.61	122	0.87
			Vermifuge	52					
	<i>Ecbalium elaterium</i> (L.) A. Rich. AZE-IJ-065	İtxiyarı	Skin problems	30	30		0.21	30	0.21
Dryopteridaceae	<i>Dryopteris raddeana</i> Fomin. AZE-IJ-064	Ayıdöşəyi	Vermifuge	14	14	10	0.1	14	0.1
Ebenaceae	<i>Diospyrus lotus</i> L. AZE-IJ-063	Xurmahindəmo	Digestive disorder	50	62	44.29	0.44	91	0.65
			Urinary	22					
			Common cold	19					
Eleagnaceae	<i>Elaeagnus angustifolia</i> L. AZE-IJ-067	İydəiydə	Liver disease	30	42	28.57	0.3	55	0.39
			Laxative	25					
	<i>Hippophae rhamnoides</i> L. AZE-IJ-089	Çaytikanı	Skin problems	29	38		0.27	62	0.44
			Sore treatment	33					
Euphorbiaceae	<i>Euphorbia hyrcana</i> Grossh. AZE-IJ-073	Südləyən	Infections	24	27	12.86	0.19	41	0.29
			Skin problems	17					
	<i>Euphorbia marschalliana</i> Boiss. AZE-IJ-074	Marşal südləyəni	Skin problems	8	9		0.06	13	0.09
			Antiinflammatory	5					

Equisetaceae	<i>Equisetum arvense</i> L. AZE-IJ-068	Qatırquyruğ <ulampasilən< td=""> <td>Urinary</td> <td>41</td> <td>62</td> <td>33.93</td> <td>0.44</td> <td>94</td> <td>0.67</td> </ulampasilən<>	Urinary	41	62	33.93	0.44	94	0.67
			Diuretic	53					
			Allergy	7	33		0.24	42	0.3
Equisetaceae	<i>Equisetum palustre</i> L. AZE-IJ-069	Bataqlıq qatırquyruğu	Diabetes	9					
			Urinary	26					
			Mouth sores	5	23	28.37	0.16	27	0.19
Fabaceae	<i>Astragalus xiphidium</i> Bunge. AZE-IJ-020	Gəvən	Antiinflammatory	22					
			Holagogue	30	38		0.27	54	0.39
			Digestive disorder	24					
Fabaceae	<i>Astragalus zuvanticus</i> Grossh. AZE-IJ-021	Astraqal	Skin problems	7	23		0.16	28	0.2
			Mouth sores	21					
			Cough relief	90	103		0.74	153	1.09
Fabaceae	<i>Glycyrrhiza glabra</i> L. AZE-IJ-082	Bıyan	Mucolytic	63					
			Digestive disorder	12	14		0.1	18	0.13
			Tumors	6					
Fabaceae	<i>Medicago caucasica</i> Vassilez. AZE-IJ-106	Qarayonca	Common cold	19	38		0.27	52	0.37
			Digestive disorder	33					
			Liver disease	30	51		0.36	74	0.53
Fabaceae	<i>Onobrychis hohenackeriana</i> C.A. Mey. AZE-IJ-120	Xaşa	Digestive disorder	44					
			Skin problems	9	21		0.15	27	0.19
			Joint pain	18					
Fabaceae	<i>Onobrychis heterophylla</i> C.A.Mey. AZE-IJ-119	Esparset	Liver disease	21	23		0.16	40	0.29
			Digestive disorder	19					

	<i>Pisum sativum</i> L. AZE-IJ-135	Göynoxudu	Liver disease	39	53		0.38	92	0.66
			Digestive disorder	42					
			Tumors	11					
	<i>Vicia ciliatula</i> Lipsky. AZE-IJ-197	Kiprikli lərgə	Digestive disorder	50	62		0.44	83	0.59
			Antiinflammatory	33					
	<i>Vicia faba</i> L. AZE-IJ-198	Paxlabokla	Laxative	30	36		0.26	51	0.36
			Antiinflammatory	21					
	<i>Vicia tetrasperma</i> (L.) Schreb. AZE-IJ-199	Lərgəlaqə	Diabetes	19	39		0.28	51	0.36
			Digestive disorder	32					
	<i>Trifolium lenkoranicum</i> (Grossh.) Roskov AZE-IJ-189	Üçyarpaq yoncası	Holagogue	20	32		0.23	47	0.34
			Antiinflammatory	27					
Gentianaceae	<i>Centaurium erythraea</i> Rafin. AZE-IJ-043	İsitməotu	Liver disease	30	34	17.38	0.24	46	0.33
			Appetizer	16					
	<i>Gentiana gelida</i> M.Bieb. AZE-IJ-081	Soyuğadavamlı acıçiçək	Liver disease	22	39		0.28	57	0.41
			Holagogue	19					
			Diabetes	7					
			Enurez	9					
Iridaceae	<i>Crocus caspius</i> Fisch. et C.A.Mey. AZE-IJ-054	Xəzər zəfəranı	Skin problems	7	25	20.71	0.18	30	0.21
			Holagogue	23					
	<i>Crocus sativus</i> L. AZE-IJ-056	Zəfəranzəfəron	Cardiac	12	47		0.34	74	0.53
			Liver disease	29					
			Eye disease	33					
	<i>Crocus polyanthus</i> Grossh. AZE-IJ-055	Çoxçiçəkli zəfəran	Liver disease	16	19		0.14	29	0.21
			Antiinflammatory	13					

	<i>Iris caucasica</i> Hoffm. AZE-IJ-093	Qoyunqulağı, süsən	Cough relief	7	31		0.22	54	0.39
			Mucolytic	17					
			Hairloss	9					
			Joint pain	21					
	<i>Iris medwedewii</i> Fomin AZE-IJ-094	Süsəndoşanqulağı	Antiinflammatory	18	23		0.16	41	0.29
			Food poisoning	8					
			Digestive disorder	15					
Juglandaceae	<i>Juglans regia</i> L. AZE-IJ-095	Qoz	Atherosclerosis	27	88	46.07	0.63	135	0.96
			Laxative	34					
			Mouth sores	29					
			Hypertension	45					
	<i>Pterocarya fraxinifolia</i> (Poir) Spach. AZE-IJ-147	Yalançıqoz	Atherosclerosis	30	41		0.29	66	0.47
			Laxative	25					
			Mouth sores	11					
Lamiaceae	<i>Lamium album</i> L. AZE-IJ-097	Dalamaz	Infections	20	49	36.07	0.35	119	0.85
			Antiinflammatory	33					
			Urinary	19					
			Common cold	30					
			Hairloss	17					
	<i>Lamium purpureum</i> L. AZE-IJ-098	Keçətük dalamaz	Food poisoning	9	43		0.31	67	0.48
			Sedative	24					
			Mouth sores	34					
	<i>Melissa officinalis</i> L. AZE-IJ-107	Dərman bədrənci	Sedative	43	52		0.37	109	0.78
			Food poisoning	10					
			Allergy	15					
			Sleep disorder	41					

<i>Mentha aquatica</i> L. AZE-IJ-108	Yarızpünə	Spasmolytic	51	67	0.48	119	0.85
		Food poisoning	16				
		Urinary	22				
		Sedative	30				
<i>Mentha pulegium</i> L. AZE-IJ-109	Giləmərzə, pulqar yarpızı	Food poisoning	7	47	0.34	73	0.52
		Analgetic	19				
		Sedative	23				
		Mouth sores	18				
		Sleep disorder	6				
<i>Origanum vulgare</i> L. AZE-IJ-126	Qaraqınıq	Urinary	30	42	0.3	84	0.6
		Sedative	16				
		Infections	38				
<i>Phlomis lenkoranica</i> Knorring. AZE-IJ-130	Ödotu	Digestive disorder	44	51	0.36	63	0.45
		Antiinflammatory	19				
<i>Salvia aethiopsis</i> L. AZE-IJ-162	Sürvə	Infections	22	49	0.35	98	0.7
		Skin problems	14				
		Antiinflammatory	25				
		Food poisoning	14				
		Common cold	23				
<i>Salvia sclarea</i> L. AZE-IJ-163	Adaçayı	Infections	12	36	0.26	89	0.64
		Skin problems	11				
		Antiinflammatory	25				
		Analgetic	14				
		Sedative	17				
		Hairloss	22				
<i>Satureja intermedia</i> C.A.Mey. AZE-IJ-164	Çöl nanəsi	Infections	27	52	0.37	100	0.71
		Antiinflammatory	29				

		Digestive disorder	33					
		Mouth sores	11					
<i>Scutellaria grossheimiana</i> Juz. AZE-IJ-170	Qrossheym başlıqotu	Common cold	27	31	0.22	43	0.31	
		Antiinflammatory	16					
<i>Scutellaria prilipkoana</i> Grossh. AZE-IJ-171	Başlıqotu	Diabetes	6	27	0.19	30	0.21	
		Digestive disorder	24					
<i>Stachys talyschensis</i> Kapell. AZE-IJ-179	Poruq	Infections	7	16	0.11	21	0.15	
		Antiinflammatory	14					
<i>Teucrium chamaedrys</i> L. AZE-IJ-184	Məryəmnoxudu	Diabetes	6	34	0.24	70	0.5	
		Infections	19					
		Common cold	25					
		Women's disease	20					
<i>Thymus kotschyanus</i> Boiss. et Hohen. AZE-IJ-185	Koçi kəklıkotu	Cough relief	44	85	0.61	179	1.28	
		Mucolytic	51					
		Common cold	66					
		Sleep disorder	18					
<i>Thymus trautvetteri</i> Klok.et Shost. AZE-IJ-186	Kəklıkotuhalındor	Cough relief	52	98	0.7	222	1.59	
		Mucolytic	39					
		Urinary	36					
		Sedative	22					
		Common cold	73					
<i>Ziziphora persica</i> Bunge AZE-IJ-202	Dağnanəsi	Skin problems	17	54	0.39	92	0.66	
		Laxative	30					
		Spasmolytic	45					
<i>Nepeta betonicifolia</i> C.A.Mey. AZE-IJ-114	Pişıknanəsi	Infections	30	41	0.29	94	0.67	
		Antipyreticsı	21					

			Analgetic	8					
			Mouth sores	12					
			Sleep disorder	23					
	<i>Nepeta mussini</i> Spreng. ex Henck. AZE-IJ-115	Mussini pişiknanəsi	Infections	45	59		0.42	143	1.02
			Antipyreticsı	32					
			Food poisoning	16					
			Urinary	31					
			Sedative	19					
	<i>Nepeta schischkinii</i> Pojark. AZE-IJ-116	Şişkin pişiknanəsi	Antipyreticsı	26	77		0.55	124	0.89
			Tonifying	22					
			Sedative	36					
			Digestive disorder	40					
Liliaceae	<i>Fritillaria grandiflora</i> Grossh. AZE-IJ-078	Zambaqça	Infections	7	14	10	0.1	23	0.16
			Sleep disorder	5					
			Women's disease	11					
	<i>Gagea alexeenkoana</i> Miscz AZE-IJ-080	Qazsoğanı	Skin problems	12	14		0.1	20	0.14
			Sedative	8					
Linaceae	<i>Linum usitatissimum</i> L. AZE-IJ-102	Zəyəmək	Food poisoning	20	62	44.29	0.44	149	1.06
			Diabetes	16					
			Laxative	44					
			Mouth sores	17					
			Laxative	52					
Lythraceae	<i>Punica granatum</i> L. AZE-IJ-148	Nar	Digestive disorder	90	101	72.14	0.72	125	0.89
			Sleep disorder	22					
			Infections	13					
Malvaceae	<i>Alcea lenkoranica</i> İljin. AZE-IJ-005	Xətmigülü	Cough relief	54	66	46.31	0.47	98	0.7
			Allergy	12					

			Joint pain	32					
	<i>Althaea cannabina</i> L. AZE-IJ-011	Bəlğəmotu	Cough relief	30	68	0.49	144	1.03	
			Mucolytic	43					
			Antiinflammatory	13					
			Laxative	17					
			Common cold	41					
	<i>Althaea officinalis</i> L. AZE-IJ-012	Gülxətmi	Cough relief	71	83	0.59	198	1.41	
			Mucolytic	66					
			Mouth sores	19					
			Common cold	42					
	<i>Hibiscus syriacus</i> L. AZE-IJ-087	Hibiskus	Sedative	6	22	0.16	24	0.17	
			Mouth sores	18					
	<i>Malva neglecta</i> Wallr. AZE-IJ-104	Alaq əməkəməçi	Cough relief	24	58	0.41	94	0.67	
			Mucolytic	41					
			Food poisoning	10					
			Mouth sores	19					
	<i>Malva sylvestris</i> L. AZE-IJ-105	Əməkəməçipəllək	Cough relief	77	92	0.66	189	1.35	
			Mucolytic	53					
			Diarrhea	28					
			Common cold	31					
Moraceae	<i>Ficus carica</i> L. AZE-IJ-076	Əncirincil	Cough relief	24	94	66.67	0.67	179	1.28
			Mucolytic	67					
			Laxative	88					
	<i>Morus alba</i> L. AZE-IJ-111	Ağ tuttu, tüyəgilə	Cough relief	44	87	0.62	192	1.37	
			Mucolytic	52					
			Liver disease	55					
			Holagogue	41					

	<i>Morus nigra</i> L. AZE-IJ-112	Qara tut	Cough relief	67	99		0.71	203	1.45
			Mucolytic	61					
			Liver disease	40					
			Holagogue	35					
Nitrariaceae	<i>Peganum harmala</i> L. AZE-IJ-129	Üzərlik	Infections	47	56	40	0.4	66	0.47
			Analgetic	19					
Orchidaceae	<i>Anacamptigvbs pyramidalis</i> (L.) Rich. AZE-IJ-014	Bağsəhləbi	Cough relief	52	77	53.75	0.55	126	0.9
			Mucolytic	44					
			Diabetes	17					
			Joint pain	13					
	<i>Ophrys apifera</i> Huds. AZE-IJ-124	Qaşsəhləbi	Cough relief	67	81		0.58	121	0.86
			Mucolytic	54					
	<i>Orchis mascula</i> L. AZE-IJ-125	Erkək səhləb	Cough relief	79	93		0.66	135	0.96
			Mucolytic	56					
	<i>Platanthera chlorantha</i> (Custer) Reichenb. AZE-IJ-138	Ləçəkotu	Skin problems	21	50		0.36	94	0.67
			Cough relief	40					
			Mucolytic	33					
Papaveraceae	<i>Chelidonium majus</i> L. AZE-IJ-044	Dəmrovotu	Holagogue	61	70	37.32	0.5	83	0.59
			Tumors	22					
	<i>Atropa caucasica</i> Kreyer AZE-IJ-023	Xanimotu	Analgetic	7	22		0.16	26	0.19
			Joint pain	19					
	<i>Capsicum annum</i> L. AZE-IJ-036	İstiot	Joint pain	44	51		0.36	67	0.48
			Antiinflammatory	23					
	<i>Fumaria asepala</i> Boiss. AZE-IJ-079	Şəhtərə	Liver disease	54	66		0.47	78	0.56

			Diabetes	24					
Pedaliaceae	<i>Sesamum indicum</i> L. AZE-IJ-172	Küncütkınıcı	Liver disease	70	84	60	0.6	109	0.78
			Laxative	39					
Plantaginaceae	<i>Linaria pyramidalis</i> (Vent.) F. Diétr. AZE-IJ-101	Qurdotu	Antiinflammatory	11	13	45.36	0.09	19	0.14
			Infections	8					
	<i>Plantago lanceolata</i> L. AZE-IJ-136	Neştərşəkilli bağayarpağı	Cough relief	77	82		0.59	133	0.95
	<i>Plantago major</i> L. AZE-IJ-137	Bağayarpağıhəvəlivə	Mucolytic Cough relief	56 92	106		0.76	179	1.28
			Mucolytic	54					
			Antiinflammatory	33					
	<i>Veronica crista-galli</i> Stev. AZE-IJ-196	Bulaqotu	Digestive disorder	41	53		0.38	70	0.5
			Urinary	29					
Poaceae	<i>Avena barbata</i> Pott ex Link. AZE-IJ-024	Vələmir	Skin problems	37	47	35	0.34	52	0.37
	<i>Hordeum vulgare</i> L. AZE-IJ-090	Arpayəv, cəv	Digestive disorder Skin problems	66 49	66		0.47	102	0.73
	<i>Oryza sativa</i> L. AZE-IJ-128	Düyübırz	Digestive disorder Skin problems	53 20	47		0.34	52	0.37
	<i>Phragmites australis</i> (Cav.) Trin. Ex Steud. AZE-IJ-131	Qamış	Antiinflammatory Antiinflammatory	31 18	18		0.13	18	0.13
	<i>Triticum aestivum</i> L. AZE-IJ-190	Buğda	Diabetes	12	47		0.34	52	0.37
	<i>Zea mays</i> L. AZE-IJ-201	Qarğıdalıməka	Digestive disorder Antiinflammatory	44 25	69		0.49	158	1.13
			Liver disease	37					

			Holagogue	40					
			Urinary	23					
			Common cold	14					
Polygonaceae	<i>Polygala grossheimii</i> Kem. - Nath. AZE-IJ-139	Südotu	Skin problems	7	14	10	0.1	18	0.13
			Antiinflammatory	11					
Polygonaceae	<i>Polygonum hyrcanicum</i> Rech.f. AZE-IJ-141	Quşbuğdası	Urinary	42	53	43.39	0.38	82	0.59
			Diuretic	27					
			Liver disease	13					
	<i>Polygonum hydropiper</i> L. AZE-IJ-140	Subibəri	Digestive disorder	30	31		0.22	37	0.26
				7					
	<i>Rumex confertus</i> Wild. AZE-IJ-159	At əvəliyi	Digestive disorder	88	97		0.69	111	0.79
			Liver disease	23					
	<i>Rumex tuberosus</i> L. AZE-IJ-160	Əvəliktorə, seveğ	Digestive disorder	59	62		0.44	66	0.47
			Antiinflammatory	7					
Portulacaceae	<i>Portulaca oleracea</i> L. AZE-IJ-142	Pərpəran	Digestive disorder	56	58	41.43	0.41	60	0.43
			Infections	4					
Primulaceae	<i>Cyclamen vernalis</i> Sweet. AZE-IJ-058	Meşənovruzu	Cough relief	40	49	35	0.35	67	0.48
			Mucolytic	27					
Ranunculaceae	<i>Nigella sativa</i> L. AZE-IJ-118	Qara çörəkotu	Holagogue	33	67	29.05	0.48	110	0.79
			Respiratory	21					
			Digestive disorder	56					
	<i>Nigella orientalis</i> L. AZE-IJ-117	Çörəkotu	Infections	24	34		0.24	52	0.37
			Diabetes	9					
			Digestive disorder	19					

	<i>Ranunculus oxyspermus</i> Willd. AZE-IJ-151	Qaymaqçıçək	Allergy	5	21	0.15	24	0.17	
Rosaceae	<i>Alchemilla hircana</i> (Bus.) Juz. AZE-IJ-006	Şaxduran	Antiinflammatory	19					
			Antiinflammatory	29	68	56.89	0.49	112	0.8
			Analgetic	6					
			Urinary	23					
			Digestive disorder	54					
	<i>Armeniaca vulgaris</i> Lam. AZE-IJ-018	Ərikərik	Mouth sores	13	83	0.59	90	0.64	
			Digestive disorder	77					
	<i>Cotoneaster integerrimus</i> Medik. AZE-IJ-051	Dovşanalması	Antiinflammatory	11	28	0.2	51	0.36	
			Digestive disorder	23					
			Holagogue	17					
	<i>Crataegus orientalis</i> (Mill.) M.Bieb. AZE-IJ-052	Qaragilə	Cardiac	96	105	0.75	138	0.99	
			Sleep disorder	42					
	<i>Crataegus pentagyna</i> Waldst. et Kit. ex Willd. AZE-IJ-053	Yemişanqaragilə	Cardiac	91	114	0.81	156	1.11	
			Sedative	65					
	<i>Cydonia oblonga</i> Mill. AZE-IJ-059	Heyvabi	Cough relief	87	124	0.89	226	1.61	
			Mucolytic	66					
			Liver disease	73					
	<i>Malus orientalis</i> Uglitzk. AZE-IJ-103	Almasef	Sleep disorder	15	63	0.45	72	0.51	
			Digestive disorder	57					
	<i>Potentilla argentea</i> L. AZE-IJ-143	Gümüşü qaytarma	Antiinflammatory	42	68	0.49	101	0.72	
			Digestive disorder	59					
	<i>Potentilla bifurca</i> L. AZE-IJ-144	Yabaşəkili qaytarma	Antiinflammatory	52	81	0.58	119	0.85	
			Digestive disorder	67					

	<i>Potentilla erecta</i> L. AZE-IJ-145	Qaytarma	Antiinflammatory	77	90	0.64	127	0.91	
			Digestive disorder	50					
	<i>Prunus spinosa</i> L. AZE-IJ-146	Gavalıdambül	Skin problems	12	65	0.46	71	0.51	
			Laxative	59					
	<i>Pyrus boissieriana</i> Buhse. AZE-IJ-149	Armudambü	Liver disease	55	62	0.44	87	0.62	
			Digestive disorder	32					
	<i>Pyrus hyrcana</i> Fed. AZE-IJ-150	Hirkan armudu	Liver disease	42	77	0.55	105	0.75	
			Digestive disorder	63					
	<i>Rosa canina</i> L. AZE-IJ-155	İtburnuseçət	Liver disease	71	97	0.69	194	1.39	
			Holagogue	55					
			Urinary	68					
	<i>Rosa candicans</i> Weihe AZE-IJ-154	Hitkan itburnusu	Liver disease	60	83	0.59	117	0.84	
			Diabetes	14					
			Antiinflammatory	43					
	<i>Rosa tomentosa</i> Smith. AZE-IJ-156	Tüklü itburnu	Liver disease	50	86	0.61	115	0.82	
			Holagogue	21					
			Urinary	44					
	<i>Rubus hyrcanus</i> Juz. AZE-IJ-158	Böyürtkənhındıl	Joint pain	22	60	0.43	75	0.54	
			Antiinflammatory	53					
Rutaceae	<i>Citrus limon</i> (L.) Osbeck AZE-IJ-047	Limonlimo	Food poisoning	20	71	30.36	0.51	150	1.07
			Sedative	33					
			Sleep disorder	40					
			Atherosclerosis	57					
	<i>Haplophyllum villosum</i> G.Don. AZE-IJ-083	Sədovər	Antiinflammatory	7	14	0.1	19	0.14	

			Infections	12					
Salicaceae	<i>Salix alba</i> L. AZE-IJ-161	Söyüdviyə do	Antipyretics	52	67	47.86	0.48	107	0.76
			Joint pain	49					
			Diabetes	6					
Sapindaceae	<i>Acer velutinum</i> Boiss. AZE-IJ-002	Ağcaqayın	Antiinflammatory	27	41	29.29	0.29	63	0.45
			Common cold	36					
Scrophulariaceae	<i>Scrophularia hyrcana</i> (Grossh.) Grossh. AZE-IJ-168	Hirkan qaraşəngi	Infections	4	11	28.75	0.08	13	0.09
			Antiinflammatory	9					
	<i>Scrophularia zuvandica</i> Grossh. AZE-IJ-169	Qaraşəngi	Digestive disorder	6	9		0.06	14	0.1
			Antiinflammatory	8					
	<i>Verbascum gossypinum</i> M.Bieb. AZE-IJ-193	Pambıqlı sığırquyruğu	Cough relief	59	72		0.51	100	0.71
			Mucolytic	41					
	<i>Verbascum thapsus</i> L. AZE-IJ-194	Sığırquyruğu	Cough relief	48	69		0.49	121	0.86
			Mucolytic	40					
			Antiinflammatory	33					
Smilacaceae	<i>Smilax excelsa</i> L. AZE-IJ-176	Mərəvçə	Digestive disorder	20	24	17.14	0.17	38	0.27
			Antiinflammatory	18					
Urticaceae	<i>Urtica dioica</i> L. AZE-IJ-192	Gicitkənqəzənə	Respiratory	42	57	40.71	0.41	129	0.92
			Women's disease	39					
			Urinary	48					
Verbenaceae	<i>Verbena officinalis</i> L. AZE-IJ-195	Minaçiçəyi	Infections	10	29	20.71	0.21	65	0.46
			Skin problems	16					
			Pain relieve	7					
			Sedative	20					
			Sleep disorder	12					

<i>Zygophyllaceae</i>	<i>Tribulus terrestris</i> L. AZE-IJ-188	Dəmirtikan	Urinary	17	40	28.57	0.29	73	0.52
			Antiinflammatory	22					
			Digestive disorder	34					

The titles given in italics are in Talysh vernacular.