

## **Ethnopharmacological Survey of Natural Products in Palestine**

مسح دوائي للمصادر الطبيعية في الطب الشعبي الفلسطيني

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### **Abstract**

Traditional remedies are part of the cultural and religious life in Palestine. In this survey, herbal products used in folk medicine were investigated and recorded. A total of two hundred and sixteen (216) different plant species, sixty (60) inorganic resources, and fifty two (52) animal products were in use. Among these medicinal plants, twenty one (21) were used for their hypoglycemic effects, eleven (11) were used for their hypotensive effects, and forty (40) were used for their diuretic effects. Reservation of endangered medicinal plant species as well as clinical investigation of these plants is required.

### **ملخص:**

يعتبر الطب الشعبي جزء من الثقافة الشعبية والمعتقدات الدينية في فلسطين، يشمل هذا المسح الدوائي على مئتين وستة عشر نبتة مختلفة تستخدم حالياً في الطب الشعبي في فلسطين. من بين هذه النباتات، احدى وعشرون نبتة تستخدم لتخفيض نسبة السكري و احدى عشر نبتة تستخدم في تخفيض الضغط، وأربعون نبتة تستخدم كمدرات للبول. ونظرا لندرة هذه النباتات وأهميتها في الطب الشعبي الفلسطيني تتضمن الدراسة التوصية بالعناية بهذه النباتات والمحافظة عليها من خلال التوسع في زراعتها لدى العامة من الناس، وتشتمل أيضاً على ضرورة إجراء دراسات سريرية لتأثير هذه النباتات.

**Introduction:**

Throughout history, man used various natural materials as a remedy for various diseases. In the past few decades, most natural products were replaced with synthetic drugs that were based on modern chemistry and biotechnology. However, we are recently witnessing a vastly growing and renewed interest in natural medicines in western countries. In particular, the herbal medicine market has exploded and became prosperous in pharmacies and many drug stores. For example, there was a seven-fold increase in the number of people using herbal medicines between 1990 and 1997 in the U.S.A.<sup>(1)</sup> With this increasing interest in natural medicine, more individuals will explore the possibility of using natural medicines to complement conventional therapy, as is already the case in certain minority cultures.<sup>(2,3)</sup>

Furthermore, natural products are still a major source of new drug discoveries: for example, 65% of the drugs that were approved for marketing between the years 1983 and 1994 were based on natural sources.<sup>(4, 5)</sup> Ethnopharmacological research is considered crucial in the development and discovery of new drugs from natural sources.<sup>(6, 7)</sup>

In Palestine, there are numerous medicinal plants described for treatment of many diseases. Herbal medicine is considered an integral part of the Palestinian culture and plays a pivotal and indispensable role in the current public healthcare. The hills and mountains of Palestine are covered with more than 2600 plant species of which more than 700 are noted for their uses as medicinal herbs or as botanical pesticides.<sup>(8)</sup> An extensive ethno botanical study was previously carried out in West Bank/Palestine to evaluate the relative efficacy of medicinal plants for the treatment of skin and prostate disorders<sup>(9)</sup>. Another recent ethnopharmacological survey study was conducted in some parts of Palestine among the most well known Arabic indigenous herbal practitioners in order to evaluate the potential of local plants used in treating different diseases and illnesses<sup>(10)</sup>. The study has shown that one hundred and twenty nine (129) plant species are still in use in Arabic traditional medicine: forty (40) plant species are

used for skin diseases; twenty seven (27) species for treating kidney and urinary tract; twenty six (26) species for treating diabetes; twenty three (23) species for treating digestive system diseases; twenty two (22) species for treating liver diseases; sixteen (16) species for treating respiratory and coughing; thirteen (13) species for cancer and nine species for treating weight loss and cholesterol reduction <sup>(10)</sup>. Other similar studies were carried out in Morocco and found that eighty per cent (80%) of patients suffering from diabetes mellitus or cardiac diseases use medicinal plants because they believe that they are cheaper, more efficient and better than modern medicine <sup>(11)</sup>.

The purpose of this study is to carry an ethnopharmacological survey on natural products (herbals, animal and inorganic sources) that are used in healing diseases in general and those used for diabetes mellitus and hypertension in particular.

### **Methodology:**

The survey was carried out by a group of pharmacy students from An-Najah University. The survey started on January 2003 and ended on August 2003. The survey included all major regions in West Bank (5900 Km<sup>2</sup>) of historic Palestine: Jenin, Tulkarm, Qalqilya, Nablus, Salfit, Ramalha, East Jerusalem, Bethlehem and Hebron as seen in the map (Figure 1). The survey has included visits to herbalists, herbal shops and people who are involved in traditional Arabic medicine. The collected information included any herbal, animal or inorganic material that was used for therapy in traditional medicine. For each natural product, all therapeutic uses, the used part from which the product was prepared (e.g. seeds, leaves, roots, etc) as well as the source (imported versus local) from which the natural product was obtained are recorded. The collected data is organized into three tables (table 1-3) where table number one contains the herbal sources, table number two contains the animal sources, and table number three contains the inorganic sources.



Figure 1: The colored area on the right of the map represents West – Bank of Palestine where the survey took place.

**Table 1:** Natural therapeutic products obtained from plants

Latin name	Common name	Used part	Origin	Use
<i>Trigonella foenum-graecum</i>	Fenugreek	Seeds	Local	Antibacterial ( <b>decoction</b> ), Tonic (as food), Stomach pain ( <b>powder</b> ), Lactogenic ( <b>infused seeds with water-sweet seeds</b> ), UT anti-inflammatory ( <b>steeping the seeds in water then boiling then drink the water</b> ), Antidiabetic ( <b>bitter seeds powder</b> ), Laxative, Blood purification. For some skin disease, Muscles pain, Hemorrhoids, Expectorant.
		Oil		Demulcent, Emollient ( <b>local</b> ), Mild laxative.
<i>Sesamum indicum</i>	Sesame	Seeds	Local	Mild Laxative ( <b>roasted seeds</b> ), Demulcent, Hair loss.
		Oil		Demulcent, Mouth ulcers.
<i>Ammi visnaga</i>	Khella	Fruits	Local	Kidney stones, Diuretic, Renal colic, Asthma, Carminative, Antispasmodic, Anti- psoriasis ( <b>decoction</b> ).
<i>Elettaria cardamomum</i>	Cardamom	Fruits	Imported	Halitosis, Carminative, Condiment, Headache analgesic, Aphrodisiac ( <b>powder or infusion</b> ).
		Seeds		Heart problems, Flatulence.

<i>Foeniculum vulgare</i>	Fennel	Fruits	Local	Antispasmodic ( <b>decoction</b> ), Carminative, Menstrual pain.
<i>Cuminum cyminum</i>	Cumin	Fruits	Local	Carminative ( <b>fruits powder</b> ), Stomachic, Anticolic, Treatment of gastro-intestinal tract inflammations.
<i>Carum carvi</i>	Caraway	Fruits	Local	Carminative, Lactogenic, Diuretic, Sedative ( <b>fruits powder</b> ).
<i>Coriandrum sativum</i>	Coriander	Fruits & seeds	Local	Carminative, Antispasmodic, Stomachic, arthritis, Aphrodisiac, Nausea, Convulsion.
<i>Petroselinium sativum</i>	Parsley	Leaves	Local	Diuretic, Kidney stones, Liver infections ( <b>infusion or decoction</b> ).
		Fruits		Oxytocic.
		Entire organism		Diuretic, Oxytocic in high dose ( <b>decoction</b> ), Anticancer, Odema, Jaundice, Asthma, Freckle.
<i>Eugenia caryophyllus</i>	Clove	Buds	Imported	Carminative, Dental analgesic ( <b>local</b> ), Local anesthetic, Anti septic.
<i>Matricaria chamomilla</i> <i>Anthemis cotula</i>	Chamomile	Flowers	Local	Antispasmodic, Carminative, Antiseptic, Anti-inflammatory, Sedative- ( <b>decoction</b> ), Respiratory problems ( <b>Vapor inhalation</b> ), Kidney stones, Treatment of sore throat& eye inflammation, Demulcent.

<i>Thymus vulgaris</i> & other Thyme species	Thyme	Leaves	Local	Carminative ( <b>fresh leaves</b> ), Antiseptic, Bronchitis ( <b>inhalation</b> ), Anthelmintic, Inflammation of respiratory system, Antifungal ( <b>oil</b> ), Stomachic, Expectorant ( <b>decoction</b> ), Antispasmodic, Injuries.
<i>Camellia sinensis</i>	Tea	Leaves	Imported	Bronchodilator, CNS stimulant, Diuretic, Antidiarrhea ( <b>dry leaves powder</b> ), Treatment of inflamed eyes ( <b>decoction</b> ).
<i>Lawsonia alba</i>	Henna	Leaves	Imported	Anti bacterial( <b>by steeping dry leaves in water then put this leaves on injures</b> ), For hair loss, Seborrhea, Dry skin, Allergy, Eczema, Treatment of wounds, Burns, Antifungal, Emollient, Hair dye.
<i>Cassia acutifolia</i>	Senna	Leaves	Imported	Purgative & for weight reduction ( <b>dry leaves decoction</b> ).
<i>Aegle marmelos</i>	Beal	Fruits	Local	Acne, Wounds, Antidiarrhea ( <b>by boiling the fruits in water then eat them</b> ).

<i>Allium cepa</i>	Onion	Leaves	Local	Colds ( <b>fresh leaves</b> ), Virility enhancement.
		Seeds		Colds, Virility enhancement.
		Oil		Lowers sugar & cholesterol levels.
		Bulbs		Hypoglycemic, Antihyperlipidemic, Stomachic, Bacteriostatic, Anthelmintic, Rubefacient, Anti-inflammatory, Antiseptic To get rid of rotten or decay in the GIT and to stimulate the action of liver, pancreas & bile. For pulmonary infection, For urinary retention, Abscesses, Cough & aphrodisiac.
		Juice		Ear infection ( <b>Onion juice 2 drops twice daily</b> ).
<i>Allium sativum</i>	Garlic	Seeds	Local	Stomach soothing, Antiemetic.
		Oil		Strengthens heart, Lowers cholesterol.
		Bulbs & lobe		Antiasthmatic, Hypotensive Expectorant, Respiratory inflammation, Carminative, Antiseptic, Treat arteriosclerosis, Toothache, Analgesic, Treatment of hyperlipidemia, Relief rheumatism pains, Treatment of cracks at corners of mouth, Diuretic, Decongestant, Antigout, Stones in kidney, Treatment of typhoid ( <b>fresh bulbs</b> ).
<i>Aloe vera</i>	Aloe	Juice	Local	Skin diseases, Wounds, Purgative, Acne, Peptic ulcer, Antidiabetic ( <b>fresh juice before meals</b> ).
		Leaves		Treat burns, Wound healing, Cathartic.
		Gum		Laxative, Antidiabetic, Used in peptic ulcer.



<i>Rhamnus frangula</i>	Frangula	Bark	Local	Laxative ( <b>decoction</b> ).
<i>Cinnamomum zeylanicum</i>	Cinnamon	Bark	Imported	Carminative, Cleans female genital system ( <b>infusion</b> ).
<i>Cinchona sp.</i>	Cinchona	Bark	Local	Antimalarial ( <b>as tea</b> ), Skeletal muscle relaxant, Oxytocic, Arrhythmia, Treat fevers, Tonic, Anticancer.
<i>Myristica fragrans</i>	Nutmeg	Seeds	Imported	Antiseptic, Carminative, Aphrodisiac, Stomachic & flavoring agent.
<i>Anastatica hierochuntica</i>	Rose of Jericho	Plant	Local	Disinfectant, To ease childbirth ( <b>infusion</b> ).
<i>Anona squamosa</i>	Custard Apple	Seeds	Imported	General healing.
<i>Capsicum annum</i>	Red pepper Capsicum	Fruits	Local	Rubefacient for arthritis , Stomachic , Carminative, Condiment, Counter irritant, Rheumatism.
<i>Capsicum fructus</i>	Sweet pepper	Fruits	Local	Stomach reinforcing, Aphrodisiac
<i>Citrullus colocynthis</i>	Bitter apple	Fruits	Local	Stomach, Antidiabetic ( <b>in small doses as powder</b> ), Anthelmintic, Laxative, Anti cancer, Treatment of rheumatism.
		Oil		Stomach & joints pains, Antidiabetic.
<i>Citrullus vulgaris</i>	Water melon	Fruits	Local	Diuretic, Cooling, demulcent, Refreshing.
		Seeds		Like fruit, Tonic, Aphrodisiac, Vermifuge.

<i>Olea europaeae</i>	Olive	Fruits & leaves	Local	Liver disease, Destroy urinary & gall bladder stones, Skin disease, Burns, Reduce cholesterol level, Eczema, Foot pain, Emollient, Treatment of damaged hair, Prevent arteriosclerosis, Secretions of GIT, Laxative, Treatment of skin rash, Antipsoriasis( <b>decoction</b> ).
		Bark		Mouth sores astringent.
		Oil		Emollient , Diuretic , Antidiabetic, Hypertension, Constipation, Atherosclerosis, Allergy, Stones in the kidney, Arthritis.
<i>Phoenix dactylifera</i>	Palm trees	Fruits	Local	Diuretic, Demulcent, Antidiabetic, <b>Fresh fruits juice</b> is cooling agent and laxative.
		Gum		Useful for diarrhea, Diseases of genitourinary system.
<i>Citrus limonum</i>	Lemon	Fruits	Local	<b>Juice is used as collyrium mixed with ginger &amp; honey for treating cough &amp; cold, Juice &amp; the rind</b> used for diarrhea & dysentery, Prophylaxis from influenza.
<i>Cucurbita maxima</i>	Pumpkin winter squash	bulbs & seeds	Local	Antivomiting, Non-poisonous anthelmintic ( <b>seeds</b> ), Diuretic, Nutrient, Antitussive, Dental & throat analgesic.

<i>Eryum esulenta</i>	Latil	Seeds	Local	Mild laxative, Very good for anemia.
<i>Cucurbita pepo</i>	Marrow squash	Seeds	Local	Anthelmintic, Motion sickness.
<i>Faucus carota</i> <i>Daucus carota</i>	Carrot	Seeds	Local	Carminative, Stomachic, Aphrodisiac, Nerve tonic ( <b>seeds powder</b> ).
		leaf oil		Produce contraction of uterus.
		Fruits		Diuretic, Carminative, Laxative, Sedative, Anthelmintic, Treatment of injuries.
		Roots		Emmenagogue, Vermifuge, Antisyphilitic, Hypoglycemic activity, Antidiarrhea, Ulcers, Antitussive, Treatment of damaged hair, Increase the fertility of women, Emollient, Antiseptic, Lactogenic.
		The whole plant		Urine retardation, Bladder infections.
<i>Corchorus olitroius</i>	Naltajute	Leaves	Local	Demulcent, Tonic, Diuretic, Lactogenic, For softening drawing the breast, abdominal disease.
		Seeds		Purgative.

<i>Cicer arietinum</i>	Chick-pea	Leaves	Local	Refrigerant, Leaves juice is stomachic, Laxative.
		Seeds		Astringent, Stimulant, Roasted seeds are aphrodisiac, Fired seeds are diuretic, Used in skin disease, Ground seed is eaten to stop mucous & blood while defecation, Treatment of jaundice, Rheumatism.
<i>Pyrus malus</i>	Apple	Fruits	Local	Antidiarrhea ( <b>boiling the apples in water</b> ).
		Roots		Anthelmentic, Hypnotic.
<i>Pyrus communis</i>	Common pear	Fruits	Local	Given to children in case of anemia & diarrhea, Hypotensive.
		Leaves		<b>Decoction</b> relaxes intestinal spasms.
<i>Brassica oleracea</i>	Capitata Cabbage	Leaves	Local	<b>Fresh leaves</b> extract good for gastro duodenal ulcers, Sedative to bronchospasm.
		Seeds		<b>Extract</b> proved antibiotic & fungicidal activity.
<i>Eruca sativa</i>	Rocket, Roquette	Leaves	Local	Stimulant, Stomachic, Diuretic, Antiscorbutic, General tonic, Aphrodisiac, Antibacterial (oil), Improve micro circulation.
		Entire organism		Tonic, Blood purification, Aphrodisiac.
<i>Antriplex hortensis</i>	Spinach	Entire plant	Local	Vitamins deficiency, Soothing inflammation, <b>Seeds</b> used as emetic.

<i>Oxalis acetosella</i>	Wood - sorrel	Seeds	Local	Astringent, Diuretic, Expectorant, Styptic, Emmenagogue, Anthelmintic, Used in the case of ejaculation without sexual desire.
<i>Opuntia ficus-indica</i>	Indian fig	Fruits	Local	Astringent.
<i>Phaseolus vulgaris</i>	kidney beans	Seeds	Local	Tincture of green pods used in rheumatism, Sciatica, Renal infection, Eating dried beans without cooking cause vomiting, Antidiarrhea, Internal hemorrhage, Dried pods without the seeds (only the dry legumes coat) used as diuretic & antidiabetic.
<i>Brassica rapa</i>	Common turnip	Roots	Local	They are edible, They are eaten either <b>boiled or pickled</b> , Prevent growth of bacteria, Fungi, Yeast, Parasites.
<i>Cinnamomum camphora</i>	Camphor trees	Wax & gum	Imported	Skin diseases, For rheumatism and heart problems, Analgesic.
		Barks		Antipruritic, Carminative, Cardio tonic, Antiseptic, Asthma, Bronchial disease.
<i>Eucalyptus globules</i>	Eucalyptus	Leaves	Imported	Treatment of U.T. infections, Antiseptic.
<i>Achillea santolina</i>	Santolina	Entire herb	Unknown	Stomachic, Carminative, Anthelmintic, Expectorant.

<i>Crocus sativa</i>	Saffron	Flowers	Imported	Stomachic, Antispasmodic, Promote menstruation, Relieve gout, <b>Analectic</b> , <b>Angiemphraxis??</b> , Condiment, Sedative, Hypnotic, Aphrodisias, Used in case of bronchitis, Analgesic, Aphrodisiac, Expectorant, Carminative, Regulate menstrual cycle, Anthelmentic.
<i>Artemisia absinthium</i>	Absinthe	Dried herb	Unknown	Diuretic, Stomach pains, Tonic, antipyretic, Stimulant, Stomachic, Motion sickness, Anthelmentic, Antiseptic.
<i>Tilia platyphyllos</i>	Tile	Flowers	Local	Expectorant, Spasmolytic, Emollient, Diaphoretic.
<i>Viola odorata</i>	Sweet violet	Whole plant	Unknown	Emetic, Purgative Expectorant, Emollient, Rheumatism.
<i>Laurus nobilis</i>	Sweet bay	Berries & leaves	Local	Digestive, Stimulant, Flatulent, Colic, Treat hysteria.
<i>Ruscus aculeatus</i>	Pricky box Butchers broom Knee holly	Roots	Imported	Diuretic ( <b>decoction</b> ), Stomachic, Anti-hemorrhagic, U.T. infection.
		Seed		Stomachic, Diuretic, Astringent, Anti-bacterial activity, Treatment of jaundice, gout.
<i>Lactuca sativa</i>	Garden lettuce	Leaves	Imported	Good source of Iron & vitamins, Treatment of hair loss, Demulcent, stomachic, tonic, Analgesic, Hypnotic, Anti-cough, decrease blood sugar (antidiabetic).
		Seeds		Sedative.

<i>Hordeum vulgare</i>	Barley grass	Fruits	Local	Hypoglycemic , Diuretic, Renal calculi , Vasopressin
<i>Mentha piperita</i>	Peppermint	Entire herb	Local	Carminative, Stimulant, Antiseptic, Spasmolytic, Analgesic, Antitussive in children, Anti-inflammatory especially breast inflammation, Foot pain, Diuretic, Treatment of diarrhea, Relief of toothache, Relief of menstrual pain, Treatment of rheumatism.
<i>Avena sativa</i> <i>Avena barbata</i>	Oats	Seeds	Imported	Cure smoking habit, Antidiabetic, Dyspepsia, Treatment of constipation, Hyperlipidemia.
<i>Quercus robur</i>	Red oak	Barks	Local and imported	Astringent, Decongestive, Treat hemorrhoids, Prevent internal hemorrhage, For vaginal secretion, Ulcers, Eczema, Dysentery, Diarrhea, Antiheroic, Anticancer, Treat uterus dislocation, Skin infection, General weakness in child and old, For nocturnal endures, To stop vomiting, <b>Boil its bark with water and use it as gorger to treat mouth ulcer</b> , To treat stomach cancer , Neuron weakness.
		Leaves		Anti-fever , Antiseptic.
		Peels		Anti-dote in case of alcohol poisoning, Antidiarrhea, Treatment of bleeding from nose, and hemorrhoids.

<i>Zingiber officinale</i>	Ginger	Rhizomes	Imported	Carminative, Antihypertension, Decrease cholesterol level, Condiment.
<i>Glycyrrhiza glabra</i>	Licorice	Rhizomes	Imported	Tonic, Demulcent, Expectorant, Peptic ulcer, Mild laxative, Anti-inflammatory, Antihistaminic.
<i>Theobroma cacao</i>	Cacao	Seeds	Imported	Mild diuretic, CNS stimulant.
<i>Linum usitatissimum</i>	Flax, Lin	Seeds		Expectorant, Demulcent, Aphrodisiac, Laxative, Relief cold and cough, Treatment of typhoid.
<i>Papaver rhoeas</i>	Corn rose (Red poppy)	Petals	Imported	Expectorant, Digestive, Emollient, Diaphoretic.
<i>Apium graveolens</i>	Cellery	Whole plant (Leaves & roots)	Local	Antispasmodic, Carminative, Diuretic, Aphrodisiac, laxative ( <b>fresh plant</b> ).
<i>Rhamnus purshianus</i>	Cascara	Barks	Imported	Strong laxative ( <b>dry powder decoction</b> ).
<i>Brassica nigra</i>	Black Mustard	Seeds	Imported	Condiment, Emetic, Expectorant, Laxative, Local & counter irritant, Rubefacient, Stomachic, Treatment of rheumatism, Relieves of cold symptoms ( <b>as powder</b> ).



<i>Salvia officinalis</i>	Sage	Leaves	Local	Anti bacterial, To relieve cough, Carminative, Antiseptic, Sedative, Antidiarrhea, Stop milk secretion, Relief menstrual pain, Anti-inflammatory, CNS stimulant, Antidiabetic ( <b>decoction</b> ).
<i>Cassia absus</i>	Chicin	Seeds	Imported	For eye diseases.
<i>Crataegus azarolus</i>	Azarole	Leaves	Local	For pertussis and lipoma, For over weight, Hyper-lipidemia.
<i>Morus rubra</i>	Red Mulberry	Leaves	Local	Astringent, anti-diabetic.
<i>Morus nigra</i>	White mulberry	Fruits	Local	For gingivitis.
<i>Tamarindus indica</i>	Tamarinds	Fruits	Imported	Mild laxative.
<i>Rosmarinus officinalis</i>	Rosemary	Gums and leaves	Local	For heart problem (tonic), Infertility, Antibacterial, Bronchitis.
<i>Sempervivum tectorum</i>	Houseleek	Leaves	Local	For skin diseases (inflammations).
<i>Althea officinalis</i>	Marsh-mallow	Flowers	Local	Cough, Magnetizer, Toothache relief.
<i>Absinthium officinalis</i>	Worm wood	Flowers	Local	Appetizer, get rid of worm and get rid of smoking.

<i>Lupinus albus</i> <i>Lupinus termis</i>	Lupine	Seeds	Local	Diabetes, Good for bones & nerves, Skin rash, Nile fever, Eczema.
<i>Strychnos nuxvomica</i>	Nux-vomica	Seeds	Imported	Stomachic, Emetic, Aphrodisiac
<i>Psedium gaujava</i>	Guava	Leaves	Local	Cough, asthma, Decrease body temperature.
<i>Ceratoniasiliqua</i>	Carob tree Locust tree	Legume (fruits)	Local	Purgative, Mouth inflammation, Antidiarrhea, Tonic, Antiulcer.
<i>Origanum vulgare</i>	Wild marjoram	Leaves	Local	Antiseptic, Anti worm, Cough, Liver and stomach diseases ( <b>fresh or dry leaves decoction</b> ).
<i>Hyssopus officinalis</i>	Hyssop	Leaves and branches	Local	Flatulence, Rheumatism.
		Entire organism		Diuretic, Wounds , Cough, Indigestion.
<i>Curcuma longa</i>	Turmeric	Woods	Imported	Anti leaven (non therapeutic use), Flatulence, Liver inflammations.

<i>Hibiscus sabdariffa</i>	Indian sorrel	Flower	Imported	Hypertension, Sedative, Antibacterial, Uterus & intestine relaxant, Cardio tonic, Bronchitis, Decreases thirst, Astringent, hemorrhoids, Diarrhea, Menstrual pains, Anti-dysenteric.
<i>Curcuma tinctoria</i>	Turkish Turmeric	Roots and rhizomes	Imported	Gall bladder diseases.
<i>Rheum officinale</i>	Rhubarb	Rhizomes and branches	Imported	Jaundice, Astringent, Laxative, (Purgative in large doses).
<i>Moringa sp.</i>	Ben nut	Seeds	Imported	Fertilizer for women ( <b>as food</b> ).
<i>Myrobalanus sp</i>	Indian myrobalan	Seeds	Imported	For stomach inflammation.
<i>Terminalia horrida</i>		Fruits		Treatment of gastritis.
<i>Acorus calamus</i>	Sweet flag	Branches	Imported	For flatulence.
<i>Anthemis pyrethrum</i>	Pellitory	Wood	Imported	Activator.
<i>Nasturtium officinale</i>	Water cress	Seeds	Local	For stomach and diabetes.
<i>Carthamus tinctorius</i>	Safflower	Seeds	Local	For cough and liver diseases.

<i>Laurus nobilis</i>	Bay	Leaves	Local	Rheumatism, Anti-diabetes.
<i>Quassia amara</i>	Bitter wood	Woods	Imported	Diabetes.
<i>Jateorhiza calumba</i>	Calumba	Flowers	Unknown	Antiseptic for the urinary tract ( <b>infusion</b> ).
<i>Astragalus gummifera</i>	Tragacanth	Gums	Imported	Protection of the kidney.
<i>Ferula assafoetida</i>	Asafetida	Gums	Imported	For flatulence, Aphrodisiac, Intestine tonic, Diuretic.
<i>Artemisia abrotanum</i>	Southern wood	Leaves and branches	Local	For asthma.
<i>Spica sp.</i>	<i>Spine</i>	Flowers	Imported	Fertilizer for women.
<i>Helianthus annuus</i>	Sun flower	Leaves	Local	Malaria, throat problems.
<i>Zizyphus vulgaris</i>	Jujube	Fruit	Local	To get rid of toxic material and for cough ( <b>dry fruits decoction</b> ).

<i>Alhagi mannifera</i>	Camels thorn	Roots	Local	For kidney pebbles and sands.
<i>Punica granatum</i>	Pomegranate	Branches	Local	For blood strength.
		Fruit peels		Chronic diarrhea, For dysentery, Kill hock warm.
		Roots bark		Anthelmintic, Astringent.
<i>Salvadora persica</i>	Tooth brush tree	Branches	Imported	For teeth cleaning, Protects the gum.
<i>Piper cubeba</i>	Cubebs	Seeds	Imported	Tonic.
<i>Ricinus communis</i>	Castor oil	Oil	Local	Purgative, Burns, Hairs emollient, Strength the nails ( <b>local uses</b> ).
<i>Nigella sativa</i>	Nigella (Black cumin)	Oil & seeds	Local	Nausea, Tonic for skin problems, Antitussive, Influence, Asthma, For liver disease, Gastrointestinal tract inflammation, Dysentery, Carminative, Cold, Treatment of renal stones, Anti-lice, Anthelmintic, Acne, Rash, Hair loss.
<i>Coffea arabica</i>	Coffee	Seeds	Imported	Stimulant, Bronchodilator, Constipation, Stop bleeding as dry powder.

<i>Aloe barbadenses</i>	Aloes	Leaves	Local	Skin inflammation, Stimulate stomach, Cause diarrhea.
<i>Smilax arnata</i>	Sasaparilla	Dried roots	Unknown	For some type of skin disease, Diuretic, Rheumatism.
<i>Ficus carica</i>	Fig	Fruits latex	Local	Laxative, Skin diseases, Burns, Kidney stones, Emollient, Anti- cough, Corns.
<i>Orchis macula</i>	Sahlab	Stem & roots	Local	Gastritis, Dysentery, Hemorrhoids, Urethra bleeding.
<i>Zea mays</i>	Maize \ Corn	Oil of the seeds	Local	Diuretic, Urinary tract anti-septic, Anti spasmodic treatment hair loss & dandruff
<i>Juniperus communis</i> ( <i>Juniperus phoenicea</i> )	Juniper	Leaves & fruits	Local	Anti diarrhea, Skin diseases (eczema), Condiment, Anticolic, Anti psoriasis, Carminative, Antiseptic, Diuretic, Tonic, and Anti-inflammatory.

<i>Ocimum basilicum</i>	Sweet Basil	Entire organism	Local	Carminative, Diuretic, Dysentery, Skin disease, Anti colic.
<i>Teucrium polium</i>	Mountain germander	Leaves	Local	Treatment of stomach & intestine inflammations, Anti spasmodic, Kill worm (anthelmintic), Treatment small box.
<i>Pimpinella anisum</i>	Anise	Fruit	Local	Antispasmodic, Diuretic, Carminative, Lactogenic, Sedative, Anticough, Treatment of kidney stones.
<i>Malva sylvestris</i>	Mallow	Leaves	Local	Treat of cough ( <b>decoction</b> ) and bites.
<i>Viola tricolor</i>	Wild pansy	Oil	Local & imported	Urocystitis, Prostatitis, Tonic, Treatment of acne ( <b>infusion</b> ).
		Leaves		Eczema, Skin allergy.
		Flowers		Anti-cough.
<i>Prunus communis</i> , ( <i>Prunus amygdalus</i> )	Almond	Seeds	Local	Prevent cough, Laxative, Demulcent, Asthma.

<i>Chrysanthemum cinerarifolium</i>	Insect flower	Flowers	Imported	Anti lice, Asthma, Kidney.
<i>Gossypium herbaceum</i>	Cotton	Leaves	Local	Pains of uterus and joints, Acute gout.
<i>Jasminum grandiflorum</i>	Jasmine	Oil	Local & imported	Neuropathy.
<i>Lavandula officinalis</i>	Lavender	Flowers	Imported	Antispasmodic, Eczema, Rheumatism, Migraine, Hypnotic.
<i>Cocos nucifera</i>	Coconut	Oil	Imported	Eczema, Antifungal, Relief rheumatism pains, Emollient, Used in case of sun burns.
<i>Salix acmophylla</i>	Salix (Willow)	Bark	Local	For wounds, Anesthetic, Analgesic, Anticoagulant, Anti corns, Anticancer.
<i>Prunus persica</i>	Peach	Fruits	Local	Treatment of damaged hair.
<i>Prunus armenca</i>	Apricot	Fruits	Local	Tonic ( <b>fresh fruits juice</b> ).
<i>Oryza sativa</i>	Rice	Peels	Imported	Treatment of constipation & hyperlipidemia.
		Seeds		For rheumatism. <b>By steeping it, its water cause abortion, and rice with milk treat diarrhea, rice with sugar treat migraine.</b>



<i>Cucumis sativa</i>	Watermelon	Fruits	Local	For kidney stones.
<i>Barbarea vulgaris</i>	Rocket	Leaves	Imported	Laxative, Diuretic, kidney stones.
<i>Citrus japonica</i>	Orange	Juice	Local	Prevent of cold and influenza.
<i>Panax quinquefolium</i>	Ginseng	Roots	Imported	Tonic, Stimulant.
<i>Protulaca oleracea</i>	Rockling	Entire plant	Oil & leaves	Treatment of hemorrhoids and expectorant.
<i>Musa paradisiaca</i>	Banana	Fruits	Local	Burns, Throat sores ( <b>fresh fruits</b> ).
<i>Cucumis sativus</i>	Cucumber	Fruits	Local	Tumors of liver & spleen , Antacid, Diuretic, Treatment of skin wrinkled , Freckled , Constipation , Thirsty, Tonic.
<i>Malva neglecta</i>	Marsk Mellow	Fruits	Local	Nutritional anemia, Laxative.
<i>Chenopodium album</i>	Chenopodium	Entire	Local	Anthelmintic.

<i>Urtica urens</i> ( <i>Urtica dioica</i> )	Nettle	Leaves	Local	Anti cancer activity.
		Roots		Anti diabetic, Lactogenic, Diuretic, Analgesic, Anti hemorrhage, Astringent, Relief gout pains, Anti-rheumatism, Split the stones in all kinds.
<i>Capsella bursapastoris</i>	Mothers heart	Entire plant	Imported	For kidney stone.
<i>Pinus sylvestris</i>	Pine	Seeds	Local	Relaxant for kidney stones.
<i>Raphanus sativus</i>	Radish	Roots	Local	Laxative.
<i>Anchus officinalis</i>	Bugloss	Fruits	Local	Treatment of hypertension.
		Leaves		Diuretic, Anti-cough, Blood purification, Laxative, Stimulate sweating, Treatment of nephritis.

<i>Vitis vinifera</i>	Grapes	Vinegar	Local	Ear infections, Weight loss.
		Dried grapes		Relaxant for all body.
<i>Polygonum amphi</i>	Knot weed	Roots	Imported	Antidiarrhea, Antihemorrhage, Astringent, Smooth muscle relaxent, Relaxing sore throat.
<i>Triticum turgidum (vulgare)</i>	Wheat	Seeds	Local	Skin purity. <b>By boiling with water it is used as diuretic and to treat cough.</b>

<i>Narcissus peoticus</i>	Narcissus , Poet`s affodil	Beans	Imported	Anthelmentic.
<i>Citharexylum quadrangulare</i>	Fiddle – wood Savannah wattle	Leaves	Entire plant	To get rid of lipid, Emollient.
<i>Cydonia vulgaris</i> <i>Cydonia oblonga</i>	Quince	Fruits	Local	Emollient, Burns, Hemorrhoides, Antispasmodic.
<i>Artemisia herba- alba</i>	Worm	Entire plant exept the root	Imported	Antidiabetic, Carminative, Stomach tonic.
<i>Brassica napus</i>	Colza	Seeds	Unknown	Emollient, Purgative, Bronchodilator, Wound healing.
<i>Leontic leontopetalum</i>	Lion`s leaf	Fruits	Local	Carminative, Weight loss.
<i>Lolium temulentum</i>	Rye –grass, Darnel cheat	Seeds	Local	Emollient, Purgative ,Antihypertention activity , Used in case of atherosclerosis and Nocturnal enuresis.

<i>Equisetum arvense</i>	False horse tail Horse pipe	Leaves	Local	Diuretic, Lower blood pressure, Anti- dote in case of Lead poisoning, Used in case of asthma, Benigin prostate hyper trophy (BPH), Chronic cough.
<i>Fagopyrum esculentum moench</i>	Buck wheat , Brank sarrasin	Seeds	Local	Rich in mineral , Used by pregnant & in case of malabsorption.
<i>Santalum album</i>	White sandal	Oil	Imported	Emollient ,Used for acne.
<i>Corcus syriacus</i>	Corcus	Leaves	Local	Diuretic.

<i>Cupressus sempervirens</i>	Cypress tree	Oil		Antiseptic, Anti convulsion, Treatment of acne .
		Fruits		Antibacterial, Antifungal activity, Antidiarrhea, Antipyretic, Antihemorrhoids, Astringent, Hemorrhage, Anemia, Antirheumatism, Diaphoretic, Diuretic, Relief of teeth pain.
<i>Ziziphys jujuba</i>	Jujube tree, Indian jujube	Fruits	Local	Chest pain, Relief of asthma.
<i>Convolvulus althaeoides</i>	Mallow bind weed	Roots , Fruits	Imported	Antidiabetic, Astringent, Blood purifying agent, Diuretic Tonic, Treatment of bronchitis and tonsillitis.
		Leaves		Demulcent, Anti-inflammatory, Anticough, Laxative, Diuretic, For bladder & kidney colic.
<i>Silybum marianum gaerth</i>	Milk thistle	Leaves, Roots, Seeds	Imported	Diuretic , Increase blood pressure ,Used in case of motion sicknes.
<i>Tilia sylvestris</i>	Linden , Lime tree	Flowers, Bark, Fruits peels	Imported	CNS stimulant, Antipyretic, Treatment of asthma , Laxative, Sedative, Hypnotic, Antispasmodic, Anticough, Increase GIT motility, Antiinflammatory, Antihypertension.
<i>Galanga officinalis</i>	Galangale	Roots	Imported	Condiment , CNS stimulant.
<i>Brassica alba</i>	White mustard, Salad mustard	Seeds	Imported	Gout, Bronchitis , Dispnea, Rubefacient,Condiment.

<i>Hypericum perforatum</i>	Perfoliate saint johns wort	Entire organism	Imported	Anthelmintic, Aphrodisiasis , Anxiety , Muscle and joint inflammation.
<i>Acacia catechu</i>	Khair tree, Catechu tree	Bark	Local	Hemorrhoids, Antidiarrhea.
<i>Pistacia lentiscus</i>	Lentisk, Mastic tree	Seeds	Local	Carminative, Aphrodisiac, Astringent, Anti cough, For halitosis, Antiseptic, Potent teeth & gingival
		Gum		For cleaning teeth, Treat gingival & mouth inflammation, Strengthen palate and jaw.
<i>Styrax officinale</i>	Styrax tree , Officinalis storax	Gum	Imported	Treatment of skin disease.
<i>Delphinium ajacis</i>	Rocket lorkspur	Leaves	Imported	Used in case of peptic ulcer and hepatitis. Diuretic, aphrodisiac, For scurvy, Hair loss, Stop bleeding, For freckles.
<i>Terminalia chebula</i>	Black myrobalan Chebulic myrobalan	Leaves	Imported	Asthma, Stomach tonic.
<i>Myrtus communis</i>	Myrtle	Leaves & oil	Imported	In case of cough, Bronchitis, Sinenses, Astringent.
<i>Plantago major</i>	Great plantain	Leaves	Imported	Mild diuretic, Emollient, Treatment of bronchitis Constipation , Bleeding from nose, Diuretic, Analgesic.
<i>Prunus mehaleb</i>	Perfumed cherry Lucie cherri	Seeds	Imported	Carminative, Antidiabetic.

<i>Euphorbia spinosa</i>	Hippophaist on	Fruits	Imported	Antiseptic, Anthelmintic, Tonic, Astringent.
<i>Achillea millefolium</i>	Milfoil	Leaves,	Imported	Anti-septic, Astringent, Diuretic, Carminative.
		Seeds		Hemorrhage.
<i>Arctium lappa</i>	Burdock	Leaves	Imported	Anti-diarrhea.
		Roots		Antiseptic, Antidiabetic, Treatment of skin disease.
<i>Achillea fragrantissima</i>	Lavender cotton Qaysun	Small leaves	Local	Carminative.
<i>Origanum majorana</i>	Sweet marjoram (Knotted marjoram)	Leaves	Imported	Anti-cough, Carminative.
<i>Collinsonia Canadensis</i>	Rich weed	Leaves	Imported	Treatment of backache , Vertebral column and hyperacidity in stomach.
<i>Juglans regia</i>	Walnut tree	Peels Leaves	Imported	Anthelmintic, Anti-diabetic, Protect of hair falling, Anti-dandruff, lower choletrol level in the blood <b>(eating the seeds)</b> .
<i>Jatropha curcas</i>	Physic-nut Spurge nettle	Seeds	Imported	Anthelmintic <b>(dry seeds)</b> .
<i>Peganum harmala</i>	Harmal Syrian rue	Seeds	Imported	Relief of rheumatism pain, Antidiabetic.



<i>Urgina maritima</i>	Squill bulb	Bulb leaves	Local	Red: Rudenticide. White: Cardio tonic, Emetic, Diuretic, Expectorant.
<i>Conium maculatum</i>	Hemlock fruits	Fruits	Imported	Analgesic for hemorrhoids, Antispasmodic, Lactogenic <b>(Fruits decoction).</b>
<i>Cynara scolymus</i>	Artichoke	Entire plant	Imported	Diuretic, Activate liver, Decrease blood cholesterol, Mild laxative.
<i>Rumex dentatus</i>	Sorrel	Entire plant	Local	Diuretic, Mild laxative, Food, Astringent, Treat various skin, mouth and throat inflammation.
<i>Globularia alypum</i>	Zoreka	Entire plant	Imported	For abdominal cramps, Laxative (infusion).
<i>Nerium oleander</i>	Oleander	Leaves, bark	Imported	Carminative, Antiseptic for teeth, gum & skin inflammation
<i>Pelargonium graveolens</i>	Geranium	Flowers, leaves	Imported	Antiseptic, Anticolic, Carminative.
<i>Vitex anguscastus</i>	Chaste tree	Fruits, leaves, flowers	Imported	For eye inflammation, Calm the digestive pains, Condiment, Anti-allergic.
<i>Rubus sanctus</i>	Black-berry	Leaves	Local	For burns, Diarrhea, Stomach inflammation, Furuncles.
<i>Allium porrum</i>	Leek	Entire herb	Local	Food, Lactogenic, Tonic, Diuretic, For heart diseases, Epilepsy, Constipation, Arthritis, Urinary tract antiseptic.

<i>Rhus coriaria</i>	Sumach Elm-leaved	Fruits, leaves, cortex	Local	Diarrhea, vomiting, Syncope, A dye for hair, Anticough, Prevent jaundice from reaching the eyes.
<i>Ziziphus spinachristi</i>	Syrian Christ- thorn, Jujube	Fruit, leaves, seeds, gum, roots	Local	Food, Diuretic, For teeth decay, Increase hair growth, Tonic, Anti-inflammatory, Antidiarrhea, Decrease thirst.
<i>Anemone coronaria</i>	Wind flower	Entire organism	Imported	Sedative, Anticough, For fever, Teeth pain.
<i>Erodium malacoides</i>	Erudios	Leaves	Imported	For injuries, legs & hands crack.
<i>Valeriana officinalis</i>	Valerian	Roots & lower stems	Imported	Antispasmodic, Antiseptic, Relief stomach pains, Sedative, Arthritis ( <b>tincture</b> ).
<i>Mandragora officinarum</i>	Mandrake or Love apple	Entire organism	Imported	Anesthetic, Relief the pains from the medical operations.
<i>Althaea rosea</i>	Holyhock	Flowers and roots	Imported	Anticough, Laxative, Gingivitis, Stomatitis.
<i>Tragopogon pratensis</i>	Goat's beard Horse tail	Roots	Imported	Anticough, Astringent, Refresh the skin, Food, For bronchitis.
<i>Ranunculus ficaria</i>	Lesser celandine	Entire organism	Imported	Antidiarrhea, For colon inflammation.
<i>Ecballium elaterium</i>	Squirting cucumber	Roots, Fruits	Imported	Laxative, Anti-rheumatism, For edema, T.B, Rubesia, Jaundice ( <b>infusion</b> ).

<i>Cynoglossuf officinalis</i>	Hound's tongue	Root's bark	Imported	Antispasmodic, Anti-inflammatory, Demulcent, Hemorrhoids, Narcotic in high doses.
<i>Convolvulus arvensis</i>	Field bind weed	Entire organism	Imported	For leg corns, Some skin inflammation, Anti-cough, Sedative.
<i>Angelica archangelica</i>	Angelica	Roots, fruits, seeds	Imported	Stomachic, Tonic, Carminative, Antispasmodic, Activate kidney, Antiemetic, Antipyretic, Antiseptic.
<i>Colchicum autumnale</i>	Colchicum	Seeds , corm	Imported	CNS stimulant, Anticancer activity, Anti rheumatism, Gout ( <b>decoction</b> ).
<i>Cephaelis Ipecacuanha</i>	Ipecac	Roots	Imported	Expectorant, Emetic, Eye paint ( <b>decoction or infusion</b> ).
<i>Alpinia galangel</i>	Gelangal	Leaves	Imported	Carminative, Aphrodisiac.
<i>Armoracia lopathifolia</i>	Horse radish	Seeds and Roots	Imported	Carminative, Stomachic, Lactogenic, Treatment of kidney stones.
<i>Savignya parviflora</i>	Rashaad	Seeds	Local	Antidiabetic activity.

Table 2: natural materials obtained from animal sources.

Latin name	Common name	Used part	Origin	Uses
<i>Apis mellifera</i>	Bee	Honey	Local	Nutritive, Induce immune system function, Teeth whitening, Laxative, Demulcent, Migraine, Improve fertility, Burns, Emollient, Antirheumatic. <b>Honey is used with roasted Fenugreek seeds as laxative and increase the percentage of hemoglobin in blood, and it is used to treat jaundice.</b>
		Wax		Treatment of dry skin, Emollient, Wounds, Burns, Laxative.
		its bit		Rheumatism, skin nodules, Arthrosclerosis, Various inflammations, To treat eczema, Psoriasis, Seborrhea, Dermatitis.
		queen's nutrition		Delay aging, Improve immunity, Treatment of barrenness, Aphrodisiac, antidiabetic agent.
<i>Phyeter macrocephalus</i>	Sperm Whale	Spermaceti from the head	Imported	Emollient, A fixative.

<i>Ovis aries</i>	Sheep	Milk	Local	Nutrient, Tonic, Antacid. <b>Cooked cartilage is used to treat arthritis, to keep bladder flexibility and to treat mouth ulceration.</b>
		Wool fat		Emollient for skin and hairs.
		Fat		Bandage for dog's bite, in case of cold symptoms.
		Yogurt		Nutrient, Tonic, For edema, Tumors, Anticancer, Anti-microbial, Delay aging.
		Spleen		For Hemorrhoids.
		Dung		Treat Impetigo, Tenia.
		Gallbladder		Remove deafness.
		Brain		Good for vitiligo and to get rid of toxins.
		Liver		For anemia, Blood cells formations.
		Meat		Expectorant, Good for intestine.
<i>Hirudo medicinalis</i>	Leech(Leek)	Entire organism	Local	Headache caused by hypertension, Reduce inflammation, Retard coagulation of blood.
<i>Moschus moschiferus</i>	Musk deer	Musk	Imported	Anti septic. Musk is important in perfumery.
		Testes		Fertilizer.
<i>Leposmis macrochirus</i>	Fish	Oil	Local	Nutrient for nails, hair & skin, Prevent Reynolds disease.
<i>Sepia officinalis</i>	Cuttlefish	Bone & shell	Imported	Antacid, In dentifrices, Acne, It's used to reduce the fever & to increase skin sensation.
<i>Laccifer lacca</i>	Scale insect	Lac ,shellac	Local	Emollient
<i>Wiranda aurantia</i>	Spider	Spider net	Local	Skin ulcers

<i>Buteo platypterus</i>	Chicken, Woodcock	Egg (white)	Local	Dysentery, For eye pains, Spasms, Skin clearance, Treatment of burns.
		Egg shell		Nocturnal enuresis, Stop bleeding (nosebleed).
		Egg yolk		Burns, For freckles, Anemia, Increase hair growth, Help for the intercourse.
		Meat		Activate the brain, Increases the semen.
		Soft- boiled		Treat rapid ejaculation, melancholia, syncope, Clarify the voice, Good for nosebleed
		Fat		For removing tumors, nose bleeding.
		brain		For asthma, Spasms, Fevers, Arthritis.
<i>Camelus dromedarius</i>	Camel	milk	Local	Tonic, Antacid, To treat anemia, Liver diseases, Chest pain, To reduce weight (treat obesity), Good for bones strength. Antibacterial activity.
		yogurt		Nutrient, Tonic.
		Tongue		Prevent hemorrhage
		Brain		Laxative, For tumors, Venoms, Tonic, Good for sciatica.

<i>Bos bubalis</i> <i>Bos taurus</i>	Cows	milk	Local	Tonic, Antacid, Antidote for poisoning by insecticide.
		yogurt		Nutrient, Tonic.
		Meat		Good food, Athletes.
		Fat		Laxative, Hemorrhoids, Mange.
		Gallbladder		Remove deafness, Prevent tumors, For teeth decay.
		Dung		For hair growth in the head & eyelids, For eczema.
		Horn		Stop hair growth.
		Spleen		Increase menstrual bleeding.
<i>Bos taurus</i>	Steer, Ox, Bull	Gallbladder	Imported	For itching, Mange, Tinnitus.
		Burnt hoof		For spleen enlargement
<i>Vipra palestina</i> <i>Crotillus otxox</i>	Snake	venom	Local	To form antidote for snakes venom, tonic for immunity tumor, anti rheumatism.
<i>spongilla lacustris</i>	Spongy	Entire organism	Imported and Local	Clean the skin.
<i>Loxodanata africana</i>	Africans Elephant	Tusk	Imported	Tonic.

<i>Capra hircus</i> <i>Ovis carpa</i>	Domestic goat	Milk	Local	Tonic, Antacid, In case of poisoning by chemical agents.
		Yogurt		Tonic, good for tumors, Common colds, Edema, Delay aging, Antimicrobial for intestine, Anticancer.
		Meat		Treat pustules & furuncles.
		Fat		For eczema, Pustules, Heel decay.
		Cheese		Kidney stones, Its water good for skin inflammations.
		Gallbladder		Stop hair growth.
<i>Physeter macrocephalus</i>	Cacholot	Fat	Imported	Tonic.
<i>Crocodilus niloticus</i>	Crocodile	Eggs	Imported	For rheumatism.
		Fats		Aphrodisiac.
<i>Lepomis macrochirus</i>	Fish	Oil	Imported	Contain vitamins, used as tonic, For asthma, rheumatism, migraine, abscesses.
		Meat		Tonic, Expectorant, Increases semen, Hair growth.
		Bones		For freckles, face creams.



<i>Millepora allcicornis</i>	Coral neefs	Shells	Imported	For rash.
<i>Cypreidae</i>	Aloda cypreidae	Skin	Imported	For skin problems.
<i>Agama</i>	Agama	Blood	Local	Tonic for the skin.
<i>Branta Canadensis</i>	Goose	Liver	Local	Tonic for heart.
<i>Lupus cervalis</i>	Bossy	Urine and Liver	Local	Treat tinnitus, Increase ability of vision, rich in minerals and vitamins for bones.
<i>Pomacentrus leucosticus</i>	Whale	Oil	Imported	Vitamins (D) & (A).
<i>Oncorhynchus ketasroe</i>	Salomon	Meat	Local	Diet, Sources of iodine that necessary for thyroid.
<i>Mytis yumanesis</i>	Yuma Bat	Blood	Local	Prevent hairsutism.
<i>Agama stellio</i>	Chameleon	Entire organism	Local	Skin diseases.
<i>Hierfalcon sp.</i>	Gyrfalcon	Skin	Local	Tonic, CNS stimulant.
<i>Lasius niger,</i>	Garden ant, Black ant	Entire organism:	Local	Grinding them with water stop hair growth & being aphrodisiac for men.
<i>Gazella dorcas</i>	Deer, gazelle	Meat	Local	Expectorant, Increase semen, Relieve dyspepsia.

<i>Pyrrhorax graculus</i>	Crow, corvus, Night heron	Gallbladder	Local	Glaucoma.
<i>Lacertilia uromastyx</i>	Dabb lizard, Uromastyx	Fat	Local	For leprosy.
<i>Rigulus crislatus</i>	Finch, Sparrow	Meat	Local	Aphrodisiac, Good for inflamed liver.
		Meat's water		Treat rapid ejaculation.
		dung		For freckles.
<i>Homo sapienus</i>	Human being	Hair	Local	<b>With wine and vinegar it will heal dog bites.</b>
		Urine		Eyes inflammations.
<i>Canard domestique</i>	Domestic duck	Brain	Local	Laxative, For tumors, venoms.
<i>Spongia</i>	Sponge	Entire	Imported	<b>If burnt with oil stop the bleeding,</b> Relief rheumatism pain.
<i>Streptopelia senegalensis</i>	Pigeon, dove	Blood	Local	Prevent nose bleeding, tumors. Secret semen. Good for hemiplegia.

<i>Rana esculenta</i>	Green frog	Ash	Imported	Stop bleeding.
		Cooked meat		For leprosy.
		Its water		For tumors.
<i>Equus asinus</i>	Ass( Donkey)	Female milk	Local	Like the milk of the female of the human being very nutritive, help the woman to become pregnant before the beginning of her menstrual cycle.
		Dung		For the bleeding in women.
<i>Canis familiaris</i>	Dog, Hound, Canine	Urine	Local	Removing the warts from their roots.
<i>Lumbricus terrestris</i>	Earth worm, Night crawler	Whole burnt with Olive oil	Local	A recipe for hearing difficulty.
<i>Mus musculus</i>	Domestic mouse	Whole burnt until ash	Local	Anticoagulant.
		Blood		Hair loss.

<i>Corallium species</i>	Coral	Blood	Imported	For eye & skin disease.
<i>Cyprinus carpio</i>	Shabot	Oil & flesh	Local	Give strengthen for the body, For skin disease, Its source of Iodine & vitamins, For goiter.
<i>Felis catus</i>	Domestic cat, Tomcat	Their guts	Local	Make some of the surgical sutures.
<i>Gupredae</i>	Snail	Shell	Local	For removal of skin spats sunspots, Freckle.
<i>Physeter sp.</i>	Whale	Ambergris	Imported	Stimulant, Headache analgesic, Perfume
<i>Scorpion species</i>	Scorpion	Their poison	Local	Anticancer.
<i>Struthio comely</i>	Ostrich	Egg shell	Imported	Eye-paint, Strength the bones.
<i>Bos bubalis</i>	Cattle	Legs	Local	Strengthen the bones and the joints. Its good for osteoporosis, it reduces fever & healing wounds.
		Liver		For goiter & anemia, it is appetizer, For weakness of nerves & muscles, For berry berry disease.
		Meat		Building rapture tissue & it is stimulant for the dullness & laziness.

		Milk		A source of calcium is used for night blind, Rickets & for osteomalacia.
<i>Agamidae stellio</i>	Stellion	Entire organism	Local	<b>Roasted stellion is powdered and mixed with olive oil to treat skin ulcer.</b>

Table 3: therapeutic products obtained from inorganic resources.

White wax	White wax	Imported	Gum inflammation, Stop bleeding.
Ash	Ash	Local	Burns.
Mix. of salts	Dead sea mud	Local	Rheumatism, Astringent, For acne.
H <sub>3</sub> BO <sub>4</sub>	Boric acid	Imported	Skin & ophthalmic infections, Ear inflammations.
Dust	Dermatophagoids ssp.	Local	Skin disease.
Al <sub>2</sub> O <sub>3</sub>	Aluminum oxide	Local & imported	Skin disease.
Clay	Aleppo earth	Imported	Skin diseases, Irritation.
Clay	Clay	Imported	Skin diseases, Skin irritation.
Clay	Clay (local)	Local	Skin diseases, Skin irritation.
Petrified spines	Jew's stone	Imported	Dissolve kidney stones.
CuSO <sub>4</sub> .5H <sub>2</sub> O	Vitriol	Imported	Skin diseases, Burns, Hematomas.
Fe SO <sub>4</sub>	Vitriol (green)	Imported	Skin diseases, Burns, Hematomas.

Cu SO <sub>4</sub>	Vitriol (blue)	Imported	Poison, Evil eye.
Potassium tetra Oxalate	Citric acid	Imported	Treats pyrosis, Digestive aid.
Red earth	Earth (red)	Imported	Skin diseases, Skin irritation.
White earth	Earth (white)	Imported	Skin diseases, Skin irritation.
Fe	Iron /powder	Local	Prevent stomachalgia. <b>Iron+H<sub>2</sub>O+Alcohol can be used to treat chronic diarrhea and peptic ulcer.</b>
NaCl	Salt	Local	Skin diseases, Very essential hemostasis, Balance osmotic pressure, Emetic, Anthelmentic, Anesthetic for teeth pain, Gum bleeding, Removing the threadworms.
Zn SO <sub>4</sub>	Zinc sulfate	Imported	Eye diseases.
Sodium bicarbonate	Soda /powder	Imported	Digestive aid, Stomach diseases.
Al <sub>2</sub> O <sub>3</sub> + SiO <sub>2</sub>	Kaolin	Local	Anti diarrhea.
PbS	Galena	Imported	Eye diseases.
PbO, Cu & S	Lead oxide, Sulfur & Copper	Imported	Eye diseases (inflammations).

Fe <sub>2</sub> O <sub>3</sub>	Hematite	Local	Body cooling, Dropsy, Spleen complaints.
Na <sub>2</sub> CO <sub>3</sub>	Sodium carbonate	Imported	Gum inflammations, Gingivitis, Dyes, Antiseptic, Preservative.
Na <sub>2</sub> BO <sub>3</sub>	Sodium diborate	Imported	Conservation, Skin antiseptic, Emollient, Breast infection, Gargle and tooth paste, Dyspepsia, Ulcer (children).
NH <sub>4</sub> CL	Ammonium chloride	Imported	Diuretic, Liver disorder, For common cold, Anti cough, Spleen, Kidney diseases.
MgSO <sub>4</sub>	Gpsium salt Epson salt	Imported	Purgative, Edema.
CuO	Copper oxide	Local	Skin and eye disease.
NaHCO <sub>3</sub>	☉ Sodium bicarbonate	Local	Nutritive, Sedative, Ulcer burns inflammations, Neutralize stomach acidity, Emetic, Teeth whitening, Analgesic for GIT, Stomach inflammation, For simple burns, Carminative, Skin rash.
HgCl <sub>2</sub> /HgCl Hydragiirum	Mercury derivatives	Imported	Antiseptic (very strong), Emetic.



Hg	Mercury	Imported	Remove itching, Mange, Tumors, Kills lice.
ZnCO <sub>3</sub>	Zinc carbonate		Astringent, Talk powder, Eczema.
CuSO <sub>4</sub>	Copper sulfate		Potent fungicidal, Eye pain, Eye inflammation, Antibacterial activity (antiseptic for wounds).
Na <sub>2</sub> SO <sub>4</sub>	Sodium sulfate	Imported	Sedative, Dysentery.
Dead sea soil	Dead sea soil	Local	Skin disease, Rheumatism.
Petroleum	Petrol	Imported	Antitussive, For dyspnea and anti epileptic.
Tar	Qutran	Local	Anti lice and their eggs, Anthelmintic.
Pb	Lead	Imported	Treatment of tumor and wound.
Ag	Silver	Imported	Add to drugs to remove phlegm.
Au	Gold	Imported	Good in cases of cardianeuria, ophthalmagia, Decrease male's fertility.
Dead Sea Water	Dead Sea Water	Local	Relief rheumatism pain, diseases like psoriasis and for chondriotitis.

CaO	Lime	Local	For bone fractures.
Halabic Mud	Halabic Mud	Imported	Skin diseases and allergy.
Kohol Stone	Kohol Stone	Imported	Eye pain and anti-inflammatory, Remove dust and solids from eyes.
H <sub>2</sub> O(Jericho)	Jericho water	Local	Treatment of headache, help in treatment of constipation.

PbCO <sub>3</sub>	Ceruse, Cerucite, White lead , Lead carbonate	Imported	Anti inflammatory, Anti pyretic, For burns, Tumors, Headache, Itching , Pustules, Stop bleeding, Prevent pregnancy.
PbO	Lead oxide	Imported	Skin disease.
ZnO	Zinc oxide Zincates Tutu	Imported	External anti-septic, Skin inflammation, Ulcer, Ophthalmic infections.
ZnSO <sub>4</sub>	Zinc sulphate	Imported	Eye drop for eye inflammations.
Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	Borax Sodium diborate	Imported	Preserve biological samples (embalm), Anti-inflammatory, In sciatica, hemiplegia, Urinary retention.
Antimony sulphide	Antimony sulphide Stibium	Imported	Headache, Eyes congestion.
MgO	Magnesium oxide	Imported	Potent the stomach. Remove stones & urinary retention, for injuries.

Potassium tartarate	Tartar	Imported	Laxative.
I	Iodide	Imported	Treat thyroid gland diseases, For heart diseases, breath difficulty, Dissolve salts
AgNO <sub>3</sub>	Silver nitrate, Lunar caustic	Imported	In surgeries, & for nervous system disorders
Talc	Talc	Imported	Skin rash.
Arsenic oxide	White arsenic	Imported	Antiseptic, Antifungal, Antibacterial, Increase intestinal motility.
NaCO <sub>3</sub>	Sodium carbonate, Natron	Imported	Gargle for mouth & teeth, Antiseptic, Expectorant, Kill lice.
K	Potassium	Imported	Laxative, Synostosis, It is regulates the consumption of calcium in the body, Its slow down the atherosclerosis, Keep the elasticity of the tissues.
Al	Aluminum	Imported	For skin disease, For the mange.

**Discussion:**

In the West Bank of Palestine, plants provide most of the natural products used in traditional folk medicine. This might be due to the diversity of plant resources available in Palestine. On the other hand, the use of animal parts as well as inorganic materials in folk Palestinian medicine is not as prosperous as that of plant medicinal materials. Tables 1 – 3 indicate that 216 plants, 52 animal sources, and 60 inorganic materials are used in folk medicine. Analysis of the plant derived materials used in folk medicine indicates that one hundred and three plants (103) are of local origin. These plants grow in Palestine and were collected by individuals or by healers. Forty three (43) of the plants mentioned in table (1) are also used in traditional cooking in Palestine. Analysis of the therapeutic uses of these folk medicinal plants shows that (27 plants) are used for skin disorders, 32 plants for kidney disorders, 12 for diabetic problems, 7 for hypertension, and 51 for GIT system problems. Most of the imported plants materials used in folk medicine are sold in herbal shops and mostly being imported from Asian countries especially from India. Regarding animal parts used in folk medicine, (16) were obtained from wild animals and (10) were obtained from domestic animals.

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