

Table S1. Traditional topical oral dosage forms and examples of the most common formulations for each of them in TPM

Traditional dosage form name	Exaamples	Ingredients	Part used	Traditional indications
Bakhorate (9)	1	<i>Peganum harmala L.</i>	seed	toothache
	2	<i>Anethum graveolens L.</i>	stem	Epiglottitis
	3	<i>Myristica fragrance,</i> <i>Areca catech L.,</i> <i>Anacyclus pyrethrum</i> <i>(L.)Lag</i>	Fruit Fruit Aerial parts	wounds of chicken pox in the mouth
	4	<i>Costus spp,</i> <i>Crucus sativus L.,</i> <i>Cinnamomum zeylanicum</i> <i>Nese, Commiphora myrrha</i> <i>Nese.</i>	Root Flower stem bark Oleo gum resin	Asthma, Apnea
Gharagher (8), (9)	1	<i>Anacyclus pyrethrum L.,</i> <i>zinjiber officinalis Roscoe.,</i> <i>Piper nigrum L.,</i> <i>Iris florentina L.,</i> <i>Origanum majorana L.,</i> <i>scilla scilloides,</i> <i>dried grape & oxymel</i> <i>syrup*</i>	Root Rhizome Seed Underground stem Aerial parts Underground stem fruit	Stroke, Paralysis of face and tongue muscles
	2	<i>Anacyclus pyrethrum L.</i> <i>Zataria multiflora Boiss,</i> <i>Brassica nigra L.</i> <i>scilla scilloides Lindl.</i>	Root Aerial parts Seed underground stem	Headache

		<i>Oxymel syrup.</i>		
	3	<i>Glycerizina glabra, L.</i> <i>quercus brantii Lindl.</i> <i>ceratonia siliqua L. &</i> <i>vinegar.</i>	Rhizome gal	Tonsillitis
	4	<i>Rhus aromatic Aiton.</i> <i>Rosa damascene Mill.</i> <i>Punica granatum L. &</i> <i>water</i>	Fruit Flower flower	Aphtha
	5	<i>Zataria multiflora Boiss.,</i> <i>Iris florentiana L.,</i> <i>Anacyclus pyrethrum L.,</i> <i>Nigella sativa L.,</i> <i>Zingiber officinalis Roscoe.,</i> <i>Peganum harmala L.,</i> <i>Apium graveolens L.,</i> <i>Acorus calamus L.,</i> <i>Mentha longifolia L.,</i> <i>dried grape & oxymel syrup</i>	Aerial parts underground stem Root Seed Rhizome Seed Aerial parts Rhizome Aerial parts	Headache, Stroke, paralysis, and tremor
Mazmazeh (7)	1	<i>Punica granatum L.,</i> <i>Olea europaea L.,</i> <i>Chelidonium majus L.</i> <i>Artemisia vulgare L.,</i> <i>Quercus brantii, Lindl &</i> <i>water</i>	Flower Leaves Aerial parts and latex gal	Phlegm, aphtha

	2	<i>Valeriana officinalis L., Rosa damascene Mill., Juniperus Sabina L., Cyperus longus L., Tamarix indica Willd. & water</i>	Aerial parts Aerial parts Flower fruit underground- glands	Gingivitis, tightening the gum and teeth.
Sanoonat (9)	1	<i>Punica granatum L., Nigella sativa L., Comiphora myrrha Nees.</i>	Flower Seed Oleo gum resin	Teeth whitening, elimination of bad breath, wound healing
	2	<i>Brasica nigra L., Anacyclus pyrethrum L., Terminalia chebula Retz .</i>	Seed Rhizome fruit	Tightening of the gums and teeth
Baroodate (9)	1	<i>Rosa damascene Mill., Coriandnum sativum L., Punica granatum L., Bambusa arundinaceous Willd, Zygophyllum fabago, Portulaca oleracea, clay.</i>	Flower Aerial parts& seed Flower stem Seed Seed	Discontinuing gingival bleeding, gum strengthening
Zaroorate (9)	1	<i>Punica granatum L., Dracaena cinnabari.</i>	Flower gum-resin	Discontinuing gingival bleeding
	2	<i>Boswellia carteri , Comiphora myrrha , Punica granatum L. ,</i>	Gum-resin Oleo-gum-resin Flower	Discontinuing gingival bleeding, wound healing

		<i>Dracaena cinnabari</i> , <i>Penaea mucranata</i> ,	Gum-resin	
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Table S2. Highly consumed plants in traditional oral topical products.

No.	Traditional plant name	Scientific name	family	Part used	Oral & dental effects	Other related effects with oral traditional uses
1	shebet	<i>Anethum graveolens L.</i>	Apiaceae	Aerial parts	Antibacterial and anti-gingivitis effects (25), analgesic anti-inflammatory (14)	
2	Mastaki	<i>Pistacia lentiscus L.</i>	Anacardiaceae	Oleo-gum-resin	Antibacterial (anti-streptococcus matins) (26)	
3	Kondor	<i>Boswellia sacra Flueck.</i>	Burceraceae	Oleo-gum-resin	Antibacterial against oral pathogens and anti-inflammatory, analgesic (27)	Neuroprotective, Anti-asthmatic (27)
4	Marzanjoosh	<i>Origanum majorana L.</i>	Lamiaceae	Aerial parts	Antiviral, antibactericidal and antifungal activity (28)	Ani- epilepsy (29)

5	Banafsheh	<i>Viola odorata</i> Thumb.	Violaceae	Aerial parts	Anti-inflammatory & antibacterial (30)	Antipyretic, antioxidant, sedative, hypnotic, bronchodilator and antihypertensive effect (30)
6	Sodab	<i>Ruta graveolenz L.</i>	Rutaceae	Aerial parts	Antibacterial, analgesic and anti-inflammatory activities (31).	
7	Varag-e-varid	<i>Rosa damascene</i> Mill.	Rosaceae	Flower	Antibacterial, antioxidant, anti-inflammatory, analgesic effects (32)	Hypnotic, protective effect on neurotic atrophy, tracheal bronchodilator, increasing heart rate, anticonvulsant, Antitussive (32)
8	Shoniz	<i>Nigella sativa L.</i>	Ranunculaceae	Seed	Antimicrobial & anti-biofilm formation, antioxidant, anti-inflammatory, analgesic, antifungal effects (18)	Anti-asthmatic & tracheal bronchodilator & pulmonary protective effect, anti-epileptogenic, neuroprotective (18)
9	Felfel	<i>Piper nigrum L.</i>	Piperaceae	Fruit	Antibacterial, antifungal, anti-inflammatory,	Antidepressant (33)

					antioxidant, anti-inflammatory effects (33)	
10	Garanfol	<i>Eugenia caryophyllata Thunb.</i>	Myrtaceae	Unopened buds	Analgesic effect (34)	Anticonvulsant and sedative effect (34)
11	Jooz-e-boaaa	<i>Myristica fragrance Houtt.</i>	Myristicaceae	Fruit	Analgesic (35), Antibacterial (against oral pathogens)(36)	Hypnotic effects (35)
12	Amoleh	<i>Phyllanthus emblica L.</i>	Euphorbiaceae	Fruit	Antibacterial, anti-inflammatory, analgesic, antioxidant (37)	Antipyretic (37)
13	Abhal	<i>Juniper Sabina L.</i>	Cupressaceae	Fruit	Antioxidant (38)	Ache & Bche inhibitor (38).
14	Khorfeh	<i>Portulata oleraceae L.</i>	Portulaceae	Seed	Anti-inflammatory, wound healer and antimicrobial effects (39)	Neuroprotective (39), Broncho dilatory effect (40)
15	Irsa	<i>Iris florentina L.</i>	Iridaceae	Rhizom	Wound healer (41)	
16	Zanjabil	<i>Zinjiber officinale Roscoe.</i>	Zinjiberaceae	Rhizome	Anti-inflammatory effects, (42), antioxidant (43)	Nootropic effect (43), AChE inhibitor (44)
17	Harmal	<i>Peganum harmala L.</i>	Nitrariaceae	Seed	Antimicrobial, antifungal, Analgesic, Anti-inflammatory activity (13)	Neuroprotective, Anti-depressant, MAO inhibitory and Anti

						parkinsonism activity (13)
18	Golnar	<i>Punica granatum L.</i>	Lythraceae	Stem bark	Antibacterial and anti-biofilm activity (45)	
19	Halileh	<i>Terminalia chebula Retz.</i>	Combretaceae	Fruit	Antibacterial, antifungal, antiviral, antioxidant, wound healing effects (46)	
20	Sa'tar	<i>Zataria multiflora Boiss.</i>	Lamiaceae	Aerial parts	Antimicrobial, antioxidant, anti-inflammatory effects (47)	Anti-nociceptive (47)
21	Pooneh	<i>Mentha longifolia (L.)</i>	Lamiaceae	Aerial parts	Antimicrobial and antioxidant effects (48)	Antipyretic and anti-nociceptive effects (48)
22	Kazbareh	<i>Coriandrum sativum L.</i>	Apiaceae	Aerial parts&Seed	Antimicrobial, anti-inflammatory& analgesic (49)	Anxiolytic, antioxidant, anticonvulsant, analgesic (49)
23	Akarkara	<i>Anacyclus Pyrethrum (L.)Lag</i>	Compositae	Root	Antibacterial, antiviral, local anesthetic, anti-inflammatory effects (19)	Anxiolytic, memory enhancing, anticonvulsant effects (19), ant epilepsy (50)
24	Holbeh	<i>Trigonella foenum-graceum L.</i>	Leguminosae	Seed	antioxidant (51)	

25	Mazoo	<i>Quercus lusitanica Lam.</i>	Fagaceae	Fruit&Gum	Antibacterial effect (52), analgesic effect (53)	
26	Voj	<i>Acorus calamus L.</i>	Acoraceae	Rhizome	Biofilm formation inhibitor (54), anti-inflammatory effect (20)	sedative, CNS depressant (20)
27	Somag	<i>Rhus aromatic Aiton.</i>		Fruit	antimicrobial, anti-inflammatory, antifungal and antiviral effects (55)	
28	Kazmazaj	<i>Tamarix indica Willd</i>	Tamaricaceae	Fruit	Antimicrobial & anti-inflammatory effects (56)	Anti-nociceptive effects (56)
29	Hanzal	<i>Citrullus colocynthis (L.) Schrad</i>	Cucurbitaceae	Fruit	Anti-candida and antibacterial activity (57) local anesthetic (58)	
30	Moord	<i>Myrtus communis L.</i>	Myrtaceae	Fruit	Antimicrobial, antifungal, antiviral, antioxidant effects (59)	Neuroprotective (60)
31	Quost	<i>Costus spp</i>	Costaceae	Root	Antibacterial, antifungal, anti-inflammatory, analgesic (61)	Ache inhibitor, antipyretic (61)
32	Asl-ol-sos	<i>Glycyrrhiza glabra L.</i>	Leguminosae	Rhizoom	anti-inflammatory, antiviral,	Antitussive & Expectorant effects (63)

					antimicrobial effects (62)	
33	Tabashir	Bambusa arundinacea Willd.	Poaceae	Aerial parts	Anti-inflammatory & wound healing activity (64)	
34	Zard choobeh	Curcuma longa	Zingiberaceae	Rhizoom	Antimicrobial, anti-inflammatory, wound healing effects (65)	
35	So'd	Cyperus longus L.	Cyperaceae	Root	Antimicrobial activity (66)	.
36	Tokhm-e-marv	Saliva macrosiphon Boiss	Labiatae	Seed	Antioxidant (67)	Ache inhibitory (67), hypnotic effect (68)
37	Shih(Darmaneh)	Artemisia sieberi Besser	Compositae	Aerial parts	Antibacterial, antifungal & anti-inflammatory activity (69)	
38	Bartang	Plantago ovata	Plantaginaceae	Seed		Broncho dilatory effect (70)
39	Sarakhs	Dryopteris flix mas			Antimicrobial activity (71)	
40	Sepestan	Cordia myxa L.	Boraginaceae	Fruit	Analgesic, anti-inflammatory & antimicrobial effects (72)	Respiratory protective effects (72)
41	Tokhm-e-karafs	Apium graveolens		Seed	Anti-inflammatory and analgesic effect (22)	

42	Heltit	<i>Ferula-asa-foetida</i> L.	Umbelliferaceae	Fruit	Antioxidant & antimicrobial effect (73)	
43	Morr	<i>Commiphora myrrha</i> (Nees) Engl.	Burceraceae	Fruit	Antimicrobial & anti-inflammatory effects (74)	
44	Enab-ol-sa'lab	<i>Solanum nigrum</i> L.	Solanaceae	Fruit&Seed	Antimicrobial & antifungal effect (75)	
45	Annab	<i>Ziziphus vulgaris</i> L.	Rhamnaceae	Stem bark	Antimicrobial & anti-inflammatory, anti-oxidant, wound healer activities (76)	Hypnotic, sedative, anxiolytic, hypotensive, and cognitive activities (76)
46	Balileh	<i>Terminalia bellerica</i> (Gaerth.) Roxb	Combretaceae	Essence	Antibacterial, antifungal, anti-inflammatory effect (77)	
47	Hamama (Hel bad)	<i>Amomum subulatum</i> Roxb	Zinjiberaceae		Analgesic & antimicrobial activity (78)	Cardiac stimulant activity (78)
48	Darchin	<i>Cinnamomum zeylanicum</i> Nees	Lauraceae	Stem bark	Antimicrobial, antioxidant & anti-inflammatory activity (79)	Anti-nociceptive activity (79)
49	Kafoor	<i>Cinnamomum camphora</i> (L.) N.et Ebern	Lauraceae		Anti-inflammatory & antioxidant effect (80)	

*: oxymel, a medicinal drink or syrup compounded of vinegar and honey, is a formulation used alone or as a basis for medicinal dosage forms from ancient times to the current era.

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