

Indigenous veterinary practices using medicinal plants in the Kara-Koy Gorge, Kyrgyzstan

Nurbek Aldayarov^{a,*}, Askarbek Tulobaev^b, Kadyrbai Chekirov^a, Eliza Asanova^c, Kamil Tokoev^d, Rysbek Begaliev^e & Almazbek Irgashev^f

^aDepartment of Biology, Faculty of Sciences, ^bDepartment of Basic Sciences, Faculty of Veterinary medicine, Kyrgyz-Turkish Manas University, Bishkek 720042, Kyrgyzstan

^cDepartment of Biotechnology and Chemistry, Faculty of Technology and Bioresources, ^dDepartment of Internal Animal Diseases,

^eDepartment of Anatomy and Physiology, ^fDepartment of Pathology, Faculty of Veterinary medicine, Kyrgyz National Agrarian University named after K.I. Skryabin, Bishkek, 720005, Kyrgyzstan

*E-mail: nurbek.aldayarov@manas.edu.kg

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Supplementary Data

Supplementary Table S1 — Classification of Animal Diseases by Categories

Organ systems / causative agents (abbreviation; total number of disease types in the category)	Types of animal diseases [abbreviation]
Digestive system (DS; 5)	Colic [c]; diarrhea [d]; gastrointestinal diseases [gd]; liver diseases [ld]; stomatitis [st]
Respiratory system (RS; 3)	Horse cough [hc]; pneumonia [p]; respiratory diseases [rd]
Urinary system (US; 2)	Kidney diseases [kd]; urinary diseases [ud]
Reproductive system (RPS; 3)	Genital organ diseases [god]; mastitis [m]; uterine diseases [ud]
Cardiovascular system (CS; 1)	Haemorrhage [h]
Nervous system (NS; 1)	Convulsion [c]
Musculoskeletal system (MS; 3)	Bone dislocations [bd]; fractures [f]; joint disorders [jd]
Integumentary system (IS; 2)	Skin burn [sb]; wounds[w]
Infection disease (ID; 9)	<i>Viral</i> (2): foot and mouth disease [fmd], sheeppox [sp]; <i>Bacterial</i> (6): adenitis equorum [ae], colibacillosis [c], foot-rot [fr], necrobacteriosis [n], pullorosis [p], salmonellosis [s]; <i>Mycoses</i> (1): ringworm [r]
Parasitic diseases (PD; 4)	Ectoparasites [ecp]; endoparasites [enp]; helminthiasis [h]; mange [m]
Tumor (T; 1)	Wart[w]
Others (Oth; 5)	Causing infertility in dogs and cats [cidc]; decreased immunity [di]; edema [e]; poisonous bites [pb]; weakness [w]

Supplementary Table S2 — Extraction procedure in the 843 homemade single species herbal remedy reports (HSHR)

Botanical family (Number of plants) / Plant species with ≥2 named HSHR (Number indicates the frequency of mentioned 843 HSHR) / Used part	Extraction procedure / Number indicates the frequency of HSHR						Total number of HSHR
	None	Water	Heated up	Dis		Bur ^{a,b,c}	
	Fre	Dri	Dec	Inf			
Amaranthaceae (2)	5	2	2	2		2	13
<i>Krascheninnikovia ceratoides</i> (L.) Gueldenst./ Aerial part (5)	3	2					5
<i>Atriplex patula</i> L. / Aerial part (8)	2		2	2		2 ^b	8
Amaryllidaceae (6)	29	2	15	2			48
<i>Allium cepa</i> L. / Root (2), whole plant (4)	4	2					6
<i>Allium platyspathum</i> subsp. <i>amblyophyllum</i> (Kar. & Kir.) N.Friesen / Root (9)	5		2	2			9
<i>Allium sativum</i> L. / Root (5), peduncle (3)	5		3				8
<i>Allium korolkowii</i> Regel/ Root (6), peduncle (3)	6		3				9

<i>Allium suworowii</i> Regel / Root (4), peduncle (4)	4	4			8
<i>Allium tianschanicum</i> Rupr./ Root (6), peduncle (2)	5	3			8
Apiaceae (9)	2	47	2		51
<i>Angelica brevicaulis</i> (Rupr.) B.Fedtsch./ Root (2)		2			2
<i>Angelica multicaulis</i> Pimenov/ Root (4)		4			4
<i>Conium maculatum</i> L./ Aerial part (6)		6			6
<i>Cuminum cyminum</i> L./ Seed (4)		2	2		4
<i>Prangos pabularia</i> Lindl. / Leaf (2), root (3)	2	3			5
<i>Ferula assa-foetida</i> L. / Root (9)		9			9
<i>Ferulafoetida</i> (Bunge) Regel / Root (7)		7			7
<i>Ferulakuhistanica</i> Korovin/ Root (8)		8			8
<i>Ferulakokanica</i> Regel &Schmalh. / Root (6)		6			6
Araceae (1)		4			4
<i>Arum korolkowii</i> Regel / Root (4)		4			4
Asteraceae (12)	13	53	32	18	116
<i>Taraxacum campyloides</i> G.E.Haglund / Whole plant (10)	3		7		10
<i>Achillea millefolium</i> L. / Aerial part (11)		11			11
<i>Onopordum acanthium</i> L. / Aerial part (8)				3 ^a +5 ^b	8
<i>Artemisia dracuncululus</i> L. / Aerial part (11)	2	6	3		11
<i>Artemisia adsinthium</i> L. / Aerial part (17)		7	4	4 ^b +2 ^c	17
<i>Arctium lappa</i> L. / Leaf (2),root (7), flower (2)	2	5	2	2 ^b	11
<i>Arctium tomentosum</i> Mill. / Leaf (2), root (4), flower (2)	2	2	2	2 ^b	8
<i>Bidens tripartita</i> L. / Aerial part (5)		3	2		5
<i>Matricaria chamomilla</i> L./ Aerial part (10)		7	3		10
<i>Tussilago farfara</i> L. / Leaf (6), flower (3)		7	2		9
<i>Inulahelenium</i> L. / Leaf (6), flower (2)	2	3	3		8
<i>Inula orientalis</i> Lam. / Leaf (5), flower (3)	2	2	4		8
Berberidaceae (4)	21				21
<i>Berberis oblonga</i> (Regel) C.K.Schneid. / Fruit (6)	6				6
<i>Berberiskaschgarica</i> Rupr / Fruit (5)	5				5
<i>Berberisintegerrima</i> Bunge / Fruit (5)	5				5
<i>Berberisnummularia</i> Bunge/ Fruit (5)	5				5
Betulaceae (3)		7		14	21
<i>Betula pendula</i> Roth / Bark (9)		3		6	9
<i>Betula alajica</i> Litv./ Bark (7)		2		5	7
<i>Betulaprocurva</i> Litv. / Bark (5)		2		3	5
Brassicaceae (1)		8	2		10
<i>Capsella bursa-pastoris</i> (L.) Medik. / Whole plant (10)		8	2		10
Caprifoliaceae (2)		3	9		12
<i>Valeriana officinalis</i> L. / Root (9)			9		9
<i>Acanthophyllum pungens</i> (Bunge) Boiss. / Root (3)		3			3
Convolvulaceae (2)	14				14
<i>Convolvulus lineatus</i> L. / Whole plant (8)	8				8
<i>Convolvulus arvensis</i> L. / Whole plant (6)	6				6
Crassulaceae(2)	9	5			14
<i>Rhodiola linearifolia</i> (Royale) Root (9)	9				9
<i>Sedum ewersii</i> Ledeb. / Root (5)		5			5
Cupressaceae(3)		28		11	39
<i>Juniperus Pseudosabina</i> Fish. & C.A.Mey / Aerial part (9), seed (5)		10		4 ^c	14
<i>Juniperuspolycarpus</i> var. <i>seravschanica</i> (Kom.) Kitam. / Aerial part (8), seed (4)		10		2 ^c	12

<i>Juniperus semiglobosa</i> Regel / Aerial part (10), seed (3)		8	5 ^c	13
Elaeagnaceae (1)	12	4		16
<i>Elaeagnus rhamnoides</i> (L.) A.Nelson / Fruit (16)	12	4		16
Ephedraceae(1)		3	11	14
<i>Ephedra equisetina</i> Bunge/ Aerial part (14)		3	5 ^a +6 ^b	14
Grossulariaceae (1)		14		14
<i>Ribes nigrum</i> L./ Fruit (14)		14		14
Hypericaceae (1)			6	6
<i>Hypericum perforatum</i> L./ Aerial part (6)			6	6
Lamiaceae(12)	2	40	24	66
<i>Origanum vulgare</i> L./ Aerial part (8)			8	8
<i>Ziziphora clinopodioides</i> Lam./ Aerial part (4)			4	4
<i>Thymus pulegioides</i> subsp. <i>pannonicus</i> (All.) Kerguélen / Aerial part (5)			5	5
<i>Mentha arvensis</i> L./ Aerial part (3)		3		3
<i>Mentha longifolia</i> var. <i>asiatica</i> / Aerial part (3)		3		3
<i>Mentha</i> × <i>piperita</i> L./ Aerial part (5)		5		5
<i>Salvia officinalis</i> L. / Leaf (8)		6	2	8
<i>Melissa officinalis</i> L. / Aerial part (12)		7	5	12
<i>Dracocephalum imberbe</i> Bunge / Whole plant (5)		5		5
<i>Dracocephalum ferganicum</i> Lazkov/ Whole plant (6)		6		6
<i>Dracocephalum stamineum</i> Kar. & Kir./ Whole plant (3)		3		3
<i>Dracocephalum origanoides</i> Steph. ex Willd./ Whole plant (4)	2	2		4
Leguminosae (4)		38		38
<i>Medicago sativa</i> subsp. <i>varia</i> (Martyn) Arcang./ Aerial part (4)		4		4
<i>Trifolium repens</i> L./ Aerial part (7)		7		7
<i>Trifolium pratense</i> L./ Aerial part (15)		15		15
<i>Melilotus officinalis</i> (L.) Pall./ Aerial part (12)		12		12
Liliaceae (1)		6		6
<i>Gagea capusii</i> A.Terracc. / Root (6)		6		6
Malvaceae (1)		11		11
<i>Althaea officinalis</i> L. / Root (11)		11		11
Orchidaceae (1)		4		4
<i>Dactylorhiza umbrosa</i> (Kar. & Kir.) Nevski / Root (4)		4		4
Orobanchaceae (2)		13		13
<i>Pedicularis physocalyx</i> Bunge/ Aerial part (7)		7		7
<i>Pedicularis kaufmannii</i> Pinzger/ Aerial part (6)		6		6
Papaveraceae (1)		3	5	8
<i>Papaver nudicaule</i> L. / Flower (6), seed (2)		3	5	8
Plantaginaceae (2)	13	7	5	25
<i>Plantago major</i> L. / Leaf (13)	7	4	2	13
<i>Plantago media</i> L. / Leaf (12)	6	3	3	12
Polygalaceae (7)	13	59		72
<i>Polygonum aviculare</i> L./ Aerial part (12)	4	8		12
<i>Persicaria vivipara</i> (L.) Ronse Decr./ Whole plant (14)	5	9		14
<i>Persicaria hydropiper</i> (L.) Delarbre/ Whole plant (3), root (5)	4	4		8
<i>Rumex acetosa</i> L./ Aerial part (11)		11		11
<i>Rheum wittrockii</i> C.E. Lundstr./ Whole plant (8)		8		8

<i>Persicaria alpina</i> (All.) H.Gross / Whole plant (12)		12		12
<i>Rumex confertus</i> Willd. / Whole plant (7)		7		7
Primulaceae (1)	2	4		6
<i>Cortusa matthioli</i> subsp. <i>turkestanica</i> (Losinsk.) Iranshahr & Wendelbo / Whole plant (6)	2	4		6
Ranunculaceae (4)	8	29		37
<i>Ranunculus acris</i> L. / Whole plant (8)	3	5		8
<i>Ranunculus polyanthemos</i> L./ Aerial part (5)		5		5
<i>Thalictrum minus</i> L. / Whole plant (9)	2	7		9
<i>Aconitum soongaricum</i> (Regel) Stapf / Root (15)	3	12		15
Rosaceae (7)	3	62	11	76
<i>Rosa fedtschenkoana</i> Regel/ Fruit (11)		11		11
<i>Rosa majalis</i> Herrm./ Fruit (12)		12		12
<i>Rosa canina</i> L./ Fruit (11)		11		11
<i>Sorbus tianschanica</i> Rupr. / Fruit (6), stem (9)	3	8	4	15
<i>Crataegus sanguinea</i> Pall. / Fruit (5), stem (4)		6	3	9
<i>Crataegus</i> × <i>tianschanica</i> Pojark. / Fruit (4), stem (6)		8	2	10
<i>Crataegus ferganensis</i> Pojark / Fruit (5), stem (3)		6	2	8
Scrophulariaceae (1)		5		5
<i>Scrophularia kiriloviana</i> Schischk. / Root (5)		5		5
Solanaceae (1)		6	2	8
<i>Hyoscyamus niger</i> L. / Aerial part (8)		6	2	8
Urticaceae (1)	2	3	2	7
<i>Urtica dioica</i> L. / Aerial part (7)	2	3	2	7
Acarosporaceae (1)	6			6
<i>Acarospora cervina</i> A. Massal. / Whole plant (6)	6			6
Lecanoraceae (3)	18			18
<i>Lecanora muralis</i> (Schreber) Rabenh. / Whole plant (6)	6			6
<i>Rhizoplaca chrysoleuca</i> (Sm.) Zopf. / Whole plant (6)	6			6
<i>Rhizoplaca melanophthalma</i> (DC.) Leuckert et Poelt / Whole plant (6)	6			6
Megasporaceae (1)	6			6
<i>Aspicilia calcarea</i> (L.) Mudd / Whole plant (6)	6			6
Parmeliaceae (1)	6			6
<i>Parmelia pulla</i> Ach. / Whole plant (6)	6			6
Rhizocarpaceae (1)	6			6
<i>Rhizocarpon geographicum</i> (L.) DC. / Whole plant (6)	6			6
Teloschistaceae (1)	6			6
<i>Xanthoria elegans</i> (Link) Th. Fr. / Whole plant (6)	6			6

Fre – fresh, Dri – dried, Dec – decoction, Inf - infusion Tin – tincture, Bur - burned (^aash, ^bash mixed with melted sheep's fat, ^csmoke), Ste – steamed, Dis – distillation