

## Medicinal plants having a dual role in treating both human and livestock diseases in Suro Barguda District, West Guji Zone, Southern Ethiopia

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### Supplementary Data

Supplementary Table S1 An overview of the medicinal plants used in the Suro Barguda District to cure both human and cattle illnesses  
Key: (Hb=Habit, Pu=Parts used, Ut=Used to treat, Cp=Condition of preparation, Ra= Route of application, T=Tree, H=Herb, Sh=Shrub, Cl=Climber, Hu= Human, Ls=Livestock, F=Fresh, D=Dried, F/D=Fresh/Dried, O=Oral, Dm=Dermal, Na=Nasal, Op=Optical, Er=Ear, L=Leaf, Rt=Root, St=Stem, Ba=Bark, Fl=Flower, Fr=Fruit, S=Seed, Bu=Bulb, Rh= Rhizome, La=Latex, Ds=Distribution, C=Common, R=Rare).

Scientific name	Family	Local name (Oromo language)	Hb	Pu	Ut	Cp	Ra	Disease tr.	Preparation & Application	Ds	Vouch No.
1 <i>Acokanthera schimperi</i> (A.DC) Schweinf	Apocyanaceae	Qaraarru	T	L	Hu, Ls	F, Dr	Dm, Dm	Itching (Qanxoo/Ciitto) External parasites	Crushing the leaves and applying them to the affected part. Fumigating the chickens and their overnight place with dried leaves	C	MA63
2 <i>Aloe calidophila</i> Reynolds	Asphodelaceae	Hargissa	Sh	L & La	Hu, Ls	F and heated	Dm, O	Skin cancer and wounds Fungi of the skin (Ringworm) Hepatitis (Barrille) Hepatitis (Biirtee) Increased bile production due to malarial infection (Hadhoottu u) Eye disease Malaria (Busaa)	Cutting and chopping the leaf or peeling the leaf and applying it to the affected part. Applying the latex to the infected part Crushing the leaves with mangado salt and boiling them in water, then serving one coffee cup to humans and half a liter to animals. Dropping one drop of its s/n in the infected eye two times a day for three days Taking about half a coffee cup of latex, adding some water, and drinking it all at once.	R	MA280
3 <i>Balanites aegyptiaca</i> (L.) Del.	Balanitaceae	Badanaa	T	R & Fr	Hu, Ls	F	O	Toothache and stomach ache Gonorrhea (Dhukkuba Dhiiraa) Stomach	A piece of root is chewed for toothaches, and the fruit is eaten for stomachaches. For three days, crush the root, make s/n, and give one glass of water twice a day.	C	MA23

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					Ls			ache Breast cancer in humans and cattle (Mucha Nama Fi Lonii)	Chewing the gum. Crushing the root, making s/n, and giving half a liter 2 times a day for 1 week for livestock and one coffee cup for humans.		
4 <i>Calpurnia aurea</i> (Alti) Benth.	Fabaceae	Ceekatta	Sh	L	Ls	F	O	Black leg (Abagorba), Anthrax (Abasenga)  Hepatitis (Biiirtee)  Chicken external parasites (Andaqoo) Dhukkubig urra (Earache)	Chop the leaves, make s/n, and give 1 liter to adults and 12 liter to calves twice a day for three days. Chopping the leaves with Magado salt, making s/n, and immediately giving 1 liter to adult cattle and one coffee cup to humans. chop the leaves, make s/n and spread it on their bodies and their overnight sites. Crushing the leaves, making s/n, filtering, and dropping 2 drops into the infected ear twice a day for 3 days. Toasting, crushing, and adding them to a cup of boiled coffee for a week.	C	MA59 b
5 <i>Croton</i> <i>macrostachyus</i> Del.	Euphorbiaceae	Mokonniisa	T	Ba	Hu,	F	O	Hypertensi on (Human)  Tooth ache  Swelling and forming deep opening (Luuxaa)  Gamtokkee (cold disease) Dhkuba Dhira (gonorrhea)	Holding or chewing the internal part of the bark with the infected tooth. Crushing the internal bark, making thick s/n and adding to the infected part. Chopping the root bark, making s/n, boiling, adding honey, and giving 1 tea cup twice a day for 3 days. For three days, crush the internal part of the bark with its leaves, make s/n, boil, and drink two glasses of water twice a day. Chopping the bark's internal part, making s/n, adding honey, and giving 1-2 cups of coffee twice a	C	MA137
				Ba							

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									gonococcal day for three days (Dhukkuba Dropping the latex on the Dhiiraa) wound or infected part. Wounds Crushing the leaves, and tetanus making s/n and giving 2 coffee cups of the s/n for tetanus. Cattle Crushing the leaves and abortion internal bark, making s/n, and serving three coffee cups at the same time.Or Kidney infection Crushing the leaves with Premna schimperii leaves, making s/n, and giving 12 liter twice a day for one week. Barrelle (ringworm) Applying the latex to the infected skin once per day for 3 days.		
			L								
			La					Stomach ache Chopping the root, making s/n, and Dhkuba distributing 1 coffee cup Dhira at a time (gonorrhea)			
				Ls				Hepatitis Crushing root bark, making s/n, boiling, and administering one glass of water twice a day for three days Shivering and Chop the leaves with the abnormal Calpurnia aurea leaves, breathing make s/n, and give 12 (Cuma'a) liters to livestock and one coffee cup to humans all at once. Chopping the inner bark, making s/n and giving 1 tea cup 2 times a day for 3 days.			
			R								
6 <i>Datura stramonium</i> L.	Solanaceae	Qobboo Arddaa	H	L	Hu, F		O	Rabies (Dhukkuba Saree)	Pounding the leaves, making s/n and giving 1-2 coffee cups for adult humans and livestock, and half of it for children and calves.	C	MA307
					Ls						
7 <i>Dodonaea angustifolia</i> L.f.	Sapindaceae	Dhitachaa	Sh	L & St	Hu, F		O	Cold disease (Gamtokke e) External livestock	Crushing the leaves, making s/n and giving 1 water glass of it to the patient. Chop young leaves, make s/n, and give	C	MA30

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					Ls			parasites (Taffi Horii)	the animal a 12 to 1 water glass. Brushing the teeth with its stick.		
8 <i>Euphorbia ampliphylla</i> Pax	Euphorbiaceae	Hadaamaa	T	La	Hu, F		Dm	Tooth ache Wound (Naqarssaa) Increased bile (malaria) (Hadhoottu ) Tooth ache. Reproducti on organ livestock	Taking the latex, combining it with the crushed <i>Carissa spinarum</i> root, and applying it on the wound. Taking a small amount of latex, mixing it with water, and giving the animal one glass of water twice a day Applying the latex to the infected tooth. Applying the latex to the infected part.	C	MA48
9 <i>Foeniculum vulgare</i> Miller	Apiaceae	Kalkala ykn insilaala	H	Rt	Hu, F		O	Stomach ache in humans and the removal of plastic materials from livestock stomach (Dhukkuba Garra)	Wound (NAQARSSAA) Increased bile production (malaria) (HADHOOTTU) Tooth ache. Reproduction organ infection in livestock	R	MA311
10 <i>Gymnanthemum amygdalinum</i> (Delile) Sch.Bip.	Asteraceae	Eebiicha	Sh	R & L	Hu, F		O	Cold disease (Gamtokke e) Tooth ache Blotting and urine retention (Bokkoksaa Fi Dhiibiinsa Fiincaanii)	Chopping the root, making s/n, adding honey, and giving two coffee cups per day for a week. Chewing the root and holding it with the diseased teeth. Chopping the leaves, making s/n and giving one coffee cup for humans and one liter for livestock all at once	C	MA156
11 <i>Hordeum vulgare</i> L.	Poaceae	Garbuu	H	Se	Hu, Dr		O	Broken bones and worn out tissues (Lafee Cabaa Fi Nafaa Dadhabaa	Slightly toasting and grinding the seeds, preparing soup by adding milk or butter, and drinking it as necessary for humans. Giving sick horses grain on a daily basis	R	MA314
12 <i>Pavetta abyssinica</i> Fresen.	Rubiaceae	Komoqorsa	Sh	Rt	Hu, F		O Dm	Tooth ache & wounded cancer/skin cancer	Chewing the root for tooth ache. Pounding the root and applying it to the affected	R	MA18

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13 <i>Pavetta oliveriana</i> Hiern	Rubiaceae	Komoqora	Sh	L	Ls Hu Ls	F	O & Dm	(Dhukkuba area Illkani Fi Cacassaa) Urine retention (Dhidiinsa Fincaanii)	Chopping the leaves, making s/n and drinking one coffee cup at a time or smelling the chopped leaves	C	MA18
14 <i>Ricinus communis</i> L.	Euphorbiaceae	Qoobboo	H	L	Ls	F	O	Urine retention  Rabies (Dhukkuba Saree)	Crushing the leaves, making s/n and giving 1 liter to the diseased livestock.  Pounding its leaves with the leaves of <i>Croton macrostachyus</i> , making s/n and giving one coffee cup to humans and one water glass to livestock at once.	C	MA322
15 <i>Solanum dennekense</i> Dammer	Solanaceae	Hiidii	Sh	R & Se	Hu, L & R	F	O	Goiter  Swelling and forming the deep opening (Luuxaa) Tonsilites (Siillissa)  Stomach ache Gland TB (Xanachaa)	Crushing roots and seeds, making s/n and giving ¼ of a coffee cup of its solution to the patient. Chopping the leaves and root together, making s/n, introducing through the opening, and closing the opening with the residue. Crushing the root, preparing the solution, and administering 1 glass of water at a time Chewing the root bark with magado salt Taking the fruit juice, making soda, and giving one water glass of it once a day for one week	C	MA78
16 <i>Steganotaenia araliacea</i> Hochst.	Apiaceae	Luqaaluqe	T	L	Ls, Hu	F	O	Different diseases affecting horses, including eye disease.  overflow of menstruatio n	Chopping its leaves together with the leaves of <i>Gardenia ternifolia</i> and magado salt, 2 cups of its s/n are given to the diseased equine. Chopping the root, making s/n, boiling it, and distributing 14 liters twice a day	R	MA237 b
17 <i>Teclea borensis</i>	Rutaceae	Hadheessa	Sh	R & L	Hu, L	F	O	Stomach ache	Chopping the root, making s/n, boiling it and	C	MA275

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M.Gilbert								(Dhukkubigiving half of coffee cup araa). Diarrhea (Garaa Kaasaa) Breast and cancer (Naqarssa Haarmee) Bloody diarrhea in livestock (Woraana) Evil eye	once per day. Chewing the leaf with Magado salt once per day. Crushing the inner part of the root, making s/n, and giving one coffee cup three times a day for one week. Crushing the root and leaves with magado salt, making s/n, and giving the animal 1/3 liter once a day. Chopping the root, making s/n, boiling, and giving 1 tea cup per day for 3 days. Crushing the leaves, making s/n and giving 1 liter at once.		
18 <i>Teclea salicifolia</i> Engl.	Rutaceae	Hadheessa	Sh	L & Hu, F St			O	Diarrhea (Albaattii). Wound (Cacca) Trypanoso miasis (Gandii) Hepatitis (Biirtee) Stomach ache Toothache of humans and livestock (Dhukubii Iilkaan)	Crushing the leaves giving 1 coffee cup of its solution for the patient. Heating the leaves on fire, adding butter and putting them on the wound. Chop the leaves, giving 1 liter of its solution to the diseased livestock to treat trypanosomiasis. Chop the leaves, making s/n and give three coffee cups for livestock and one coffee cup for humans at once. Crushing the leaves, making s/n and giving half a liter to the diseased animal. Brushing your teeth with its stick Chop the leaves and hold them in place with your infected tooth.	R	MA77
19 <i>Vangueria apiculata</i> K. Schum	Rubiaceae	Bururii	Sh	Rt	Ls, F		O	Liver disease	Chopping the root bumps, R making s/n, and giving 1 tea cup for humans and half a liter for livestock. Chopping the leaves, making s/n and drinking one coffee cup at a time or		MA87
				L	Hu		O	Urine retention			

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20 <i>Viscum tuberculatum</i> A. Rich.	Viscaceae	Dhertoo	Epi	St & Hu, L		F	Na O	(Dhidiinsa Fincaanii) Poisons and snake venom	smelling the chopped leaves Chopping it all up, making s/n, and giving one coffee cup twice a day Chopping the whole part with magado salt, making s/n and giving 1 glass of water 2 times a day for 1 day to the cattle. Or chop its leaves with the leaves of <i>Fagaropsis</i> <i>angolensis</i> , make s/n and give one coffee cup twice a day for three days.	C	MA330
21 <i>Zanthoxylum chalybeum</i> Engl.	Rutaceae	Gaddaa	Sh	Ba R Se L & St	Hu, Ls	F Dr	O	Tooth ache (Naqarsa Ilkaan). Amoebiasis (Mageana) & Typhus (Gogossa)	Crushing the bark and applying it to the infected tooth, chewing the root, or brushing the teeth with its stick. For amoebiasis and typhus, crush the seed, bark, and root, make s/n, and give two coffee cups per day.	R	MA16
								Hypertensi on (Danffa Dhiigaa)	Chopping the internal part of the bark and the leaves together, boiling them, and drinking them like tea; or powdering the dried form of these parts and boiling them as tea and drinking 1–2 tea cups a day.		
								Vertebral column pain (Dhukubii Duba) Diarrhea in goats (Albaattii Re'ee)	Chopping the inner part of the bark, making s/n, boiling it, adding butter, and giving 1 tea cup 2 times a day for 1 week. Chop the leaves, make s/n, and give 12 liters of water per day for three days.		
22 <i>Ziziphus abyssinica</i> Hochst ex A. Rich.	Rhamnaceae	Huqunqura	T	Ba	Ls	F	Na O	Weight loss and being powerless livestock (Xuxii). Severe headache (Bocaa), fever and disturbed	Crushing the internal part of the bark, making s/n and dropping 2 drops through the nostrils. Chopping the bark, making s/n, boiling, adding milk or butter, and giving 1 glass of water 2 times a day for 3 days. Apply the chopped leaves	C	MA217b

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				L		F	Dm	menstrual cycle Wound (Madaa)	to the wound.		

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