

Sangma D B, Manohara T N. The role of Garo tribes of Meghalaya (India) in the conservation and management of medicinal plants diversity used in treating livestock diseases. *Plant Science Today* 2018;5(4):155-162. <https://dx.doi.org/10.14719/pst.2018.5.4.416>

Supplementary Table 1. List of medicinal plants used for treating livestock diseases

Serial No.	Scientific name	Family	Local name	Habitat	Habit	Parts used	Livestock disease treated	Mode of preparation (MP)	Conservation status
1	<i>Aeschynanthus acuminatus</i> Wall. ex A. Dc.	Gesneriaceae	Dotekmi	W	Ep	L	Fracture in bovine, caprine and poultry	Freshly collected leaves are ground to a paste along with leaves of <i>Monochoria hastata</i> , <i>Justicia gendarussa</i> , <i>Crinum defixum</i> and <i>Litsea salicifolia</i> . Paste is applied to the affected part and bamboo is used to give support and wrapped with banana leaves and tied. The procedure is repeated for 10-15 days or till cured.	Sporadic
2	<i>Aeschynanthus gracilis</i> Parish ex C.B. Clarke	Gesneriaceae	Mamlok /Gominda bitchil	W	Ep	Wp	Foot rot in bovine	Freshly collected leaves are ground to a paste and then heated on fire and directly massaged onto the foot of the animal. The process is repeated till cured.	Endangered
3	<i>Acacia catechu</i> Willd.	Fabaceae	Pakrikuel	W	T	L	Constipation in bovine	Fresh leaves are ground with black salt and fed with water twice daily for 3-4 days.	Not evaluated
4	<i>Achyranthes aspera</i> L.	Amaranthaceae	Memang katchi	HG	H	R	Foot rot in bovine	Fresh roots of <i>Achyranthes aspera</i> are ground into a paste along with seeds of tamarind. The paste is applied on foot daily till cured.	Common
5	<i>Acrostichum speciosum</i> Mart.	Pteridaceae	Sarat gitachak	W	P	WP	Hoof crack in bovine	Plants are pounded to a paste and applied topically	Sporadic

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								on the hoofs.	
6	<i>Allophylus cobbe</i> Bl.	Sapindaceae	Maraka	W	Sh	L	Blood clot in cattle	Decoction is prepared from leaves and administered orally.	Not evaluated
7	<i>Alstonia scholaris</i> (L.) R.Br.	Apocynaceae	Sokchon	W	T	L	Gallstone in cattle	Decoction is prepared from leaves of <i>Alstonia scholaris</i> , <i>Aloe vera</i> , <i>Euphorbia royleana</i> and <i>Dendrocnide sinuata</i> and then orally fed till cured.	Least concern
8	<i>Amorphophallus bulbifer</i> (Roxb.) Blume	Araceae	Songrura	HG	H	L, St	Snake poisoning in domestic animals	Leaves are pounded and extracted juice is administered orally.	Sporadic
9	<i>Andrographis paniculata</i> Nees	Acanthaceae	Chirota	W	H	L	Indigestion in bovine	Freshly collected leaves are fed to treat indigestion.	Least concern
10	<i>Antidesma acidum</i> Retz.	Phyllanthaceae	Adurak	W	T	R	Wounds, injuries in domestic animals	Roots of <i>Antidesma acidum</i> are pounded with stems of <i>Cissus quadrangularis</i> and then paste is applied over the wounds.	Not evaluated
11	<i>Argyreia nervosa</i> (Burm. f.) Bojer	Convolvulaceae	Do'stip budu	W	Cl	WP	Blindness in goat	Plant is tied around the neck of the animal until cured.	Common
12	<i>Aristolochia cathcartii</i> Hook.f.	Aristolocaceae	Dik'ge choupal/ Golbera budu	W	Cl	L	Chronic weight loss in cattle	Freshly collected plants are ground to a paste and mixed with water and fed twice daily.	Rare
13	<i>Benincasa hispida</i> (Thunb.) Cogn.	Cucurbitaceae	Akkaru	HG	Cl	Fr	Centipede bite in domestic animals	Fruit is scraped and then applied on wounds.	Under cultivation
14	<i>Bombax malabaricum</i> DC.	Malvaceae	Bolchu	W	T	B	Foot rot in bovine	Bark of <i>Bombax malabaricum</i> and leaves of <i>Calotropis gigantea</i> and	Not evaluated

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								<i>Euphorbia royleana</i> are pounded to a paste. The poultice is applied or massage on the foot.	
15	<i>Buettneria pilosa</i> Roxb.	Sterculiaceae	Du'machok	W	Cl	L	Blindness in caprine Mange in caprine	Leaves are pounded and mixed with salt and applied directly on the eyes to treat blindness. Leaves are ground to a paste and applied to the affected skin.	Rare
16	<i>Caladium bicolour</i> (Aiton) Vent. (Figure 7D)	Araceae	Ta'bisi	W	H	L	Boils, warts in bovine	Leaves are pounded and juice is extracted and applied topically till cured.	Common
17	<i>Carallia integerrima</i> DC.	Rhizophoraceae	Te'kra	W	T	L, Fr	Swine fever	Extracted fruit juice is mixed with feed and fed once daily till cured.	Rare
18	<i>Carex cruciata</i> Wahlenb. (Figure 7B)	Poaceae	Ginengsi	HG	H	L, Fl	Diarrhoea in bovine and caprine	Leaves of <i>Carex cruciata</i> and florets of <i>Imperata cylindrical</i> and roots of <i>Cenchrus longispinus</i> are ground to a paste and mixed with water and fed once for 2-3 days or till cured.	Common
19	<i>Careya arborea</i> Roxb.	Lecythidaceae	Gimbil	W	T	L	Diarrhoea, dysentery in bovine	Leaves of <i>Careya arborea</i> , <i>Jatropha gossypifolia</i> and <i>Psidium guajava</i> are made into decoction and fed twice daily till cured.	Sporadic
20	<i>Chenopodium album</i> L.	Amaranthaceae	Garujak	HG	H	L	Diarrhoea in domestic animals	Leaves of <i>Chenopodium album</i> and rhizome of <i>Kaempferia galanga</i> are pounded and mixed with	Sporadic

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								water and give to drink.	
21	<i>Cissampelos pareira</i> Linn.	Menispermaceae	Lengra budu	W	Cl	L	Limpness in cattle	Plant is tied around the neck of an animal till cured.	Common
22	<i>Citrus maxima</i> Merr.	Rutaceae	Chambura	HG	T	La	Fever, flu and diarrhoea in avian	Latex of <i>Citrus medica</i> and <i>Citrus maxima</i> are mixed with feed and fed.	Under cultivation
23	<i>Clerodendron infortunatum</i> L.	Lamiaceae	Samaki	W	Sh	L, R	Snake poisoning Ringworm, Mange in caprine and bovine	Roots are powdered and mixed with water and administered by drenching. Leaves are pounded together and applied directly to the skin.	Common
24	<i>Clitoria ternatea</i> L.	Fabaceae	Kali budu	W	Cl	L	Excessive salivation, fever in cattle	Leaves of <i>Clerodendron infortunatum</i> and <i>Ocimum gratissimum</i> are ground to a paste and the water mixture is fed to the animal 2-3 times till cured.	Sporadic
25	<i>Curcuma amada</i> Roxb.	Zingiberaceae	Dik'ge te'gatchu	W	H	Rh, L	Indigestion in domestic animals	Powder of dried roots is mixed with water and force fed.	Rare
26	<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	Gure samsi	W	H	L	Blindness in caprine ulcer in goat and cattle	Fresh plants are collected and pounded with water and extract is applied directly to the eyes with the help of a dropper. Paste is also used to treat ulcers.	Common
27	<i>Dicranopteris linearis</i> (Burm. f.) Underw.	Gleicheniaceae	Alikwareng	W	P	L	Flu in avian	Leaves are soaked in water for overnight. Infusion is then administered by	Sporadic

Serial No.	Scientific name	Family	Local name	Habitat	Habit	Parts used	Livestock disease treated	Mode of preparation (MP)	Conservation status
								drenching.	
28	<i>Dillenia pentagyna</i> Roxb.	Dilleniaceae	Agatchi	W	T	Fl	Diarrhoea in bovine	Flowers and leaves are collected and decoction is prepared from it and fed.	Sporadic
29	<i>Drynaria quercifolia</i> (L.) J.Sm	Polypodiaceae	Do'reng gangpak	W	Ep	Wp	Rabies in cattle	Plant is ground and mixed with water and fed orally (drenching).	Common
30	<i>Elaeocarpus floribundus</i> Blume.	Elaeocarpaceae	Jolpai	HG	T	L	Maggot infection in bovine and caprine	Leaves are ground to a paste and applied on the wounds.	Endangered
31	<i>Ficus nervosa</i> B. Heyne ex Roth	Moraceae	Bolmaribu	W	T	L	Reproductive disease in bull	Plants are ground to a paste and mixed with water and fed as well as applied on the affected part.	Sporadic
32	<i>Gmelina arborea</i> Roxb. Ex Sm.	Lamiaceae	Gamare	W	T	B	Mange and ringworms in bovine and caprine	Barks of <i>Gmelina arborea</i> and <i>Erythrina stricta</i> are pounded together and are directly applied on the skin.	Not evaluated
33	<i>Globba pendula</i> Roxb.	Zingiberaceae	Samtampu	W	H	L, Fl	Swine fever	Leaves of <i>Globba pendula</i> , <i>Elaeocarpus floribundus</i> and <i>Morinda angustifolia</i> and bark of <i>Entada scandens</i> , <i>Sterculia villosa</i> and <i>Holarrhena antidysenterica</i> and fruits of <i>Sterculia colorata</i> and <i>Dillenia indica</i> are ground together. Paste is then mixed with feed and fed two times daily until cured.	Common
34	<i>Gomphostemma parviflorum</i> Wall.	Lamiaceae	Baksusam	W	H	L, Fl	Vomiting or indigestion in cattle	Decoction prepared from leaves and flowers is fed by	Rare

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								drenching.	
35	<i>Gossypium arboreum</i> L.	Malvaceae	Kilbol	HG	Sh	L, St	Skin disease (hair loss) in bovine	Leaves of <i>Gossypium arboreum</i> and <i>Ocimum basilicum</i> and rhizome of <i>Cheilocostus speciosus</i> and spikelet of <i>Wallichia densiflora</i> are pounded and juice is extracted. Juices are applied to the skin.	Sporadic
36	<i>Holmskioldia sanguinea</i> Retz.	Lamiaceae	Mese nachil	W	Cl	L	Ulcers and sores in goats	Leaves are pounded and applied.	Common
37	<i>Jatropha curcas</i> Linn.	Euphorbiaceae	Bolmandal	HG	Sh	L	Mouth ulcers, sores and wounds in bovine	Leaves of <i>Jatropha curcas</i> and fruit of <i>Musa balbisiana</i> are ground to a paste. Paste is applied on the affected part.	Common
38	<i>Kaempferia pulchra</i> Ridl.	Zingiberaceae	Dik'ge chendi	W	H	Rh	Sprain in cattle	Leaves and roots are made into paste and directly applied on the affected part of the body and wrapped with a cloth.	Rare
39	<i>Knema linifolia</i> (Roxb.) Warb	Myristiceae	Bolanchi	W	T	St	Bleeding and blood clot in cattle	Stems are pounded and boil with water and give for drinking twice daily for one week or till cured.	Rare
40	<i>Lasia spinosa</i> (L.) Thw	Araceae	Chonggi	W	H	L, St	Mange in goat	Leaves are ground to a paste and applied.	Least concern
41	<i>Leptochilus decurrens</i> Blume	Polypodiaceae	Rongchiskap	W	P	L	Nerve diseases in canine	Leaves are ground and fed to the animal twice a day till cured.	Least concern
42	<i>Litsea glaucescens</i> Kunth	Lauraceae	Jengjil	W	T	L	Fever in cattle	Leaves of <i>Litsea glaucescens</i> , <i>Litsea salicifolia</i> , and leaves of	Sporadic

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								bamboo and broom grass are ground together and then mixed with water and force fed.	
43	<i>Litsea monopetala</i> (Roxb.)	Lauraceae	Adakaki	W	T	L	Replenish bone and blood cell reproduction	Decoction is made from freshly collected leaves and fed orally.	Sporadic
44	<i>Litsea salicifolia</i> (J. Roxb. ex Nees) Hook. f.	Lauraceae	Laham	W	T	L	Fever in cattle	Leaves are soaked in water overnight and the infusion is fed by drenching.	Sporadic
45	<i>Lygodium flexuosum</i> (L) Sw.	Lygodiaceae	Ruatip	W	P	L	Wooden tongue in cattle	Leaves are ground to a paste along with the leaf of <i>Thelypteris arida</i> . The mud stuck on the plough was removed and mixed with the prepared paste and applied.	Common
46	<i>Mallotus philippensis</i> (Lam.) Muell.Arg. (Figure 7C)	Euphorbiaceae	Setri bol	W	T	L, Fr	Diarrhoea in cattle	Leaves and fruits are boiled in water to prepare decoction. Decoction is then fed orally.	Rare
47	<i>Matteuccia struthiopteris</i> (L.) Tod	Onocleaceae	Sarat menggotchi	W	P	L	Ringworm in bovine	Leaves of <i>Matteuccia struthiopteris</i> and stems of <i>Euphorbia royleana</i> are ground to a paste and mixed with powdered lime and applied directly to the skin.	Common
48	<i>Merremia tuberosa</i> (L.) Rendle	Convolvulaceae	Samtamilang	W	Cl	L	Constipation in domestic animals	Freshly collected leaves of <i>Merremia tuberosa</i> and fruits of <i>Terminalia chebula</i> and <i>Phyllanthus emblica</i> are pounded to a paste and mixed with minerals (salt,	Not evaluated

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								black salt, palm candy) already beat to pieces and the extract is administered to the animal once.	
49	<i>Mesua ferrea</i> L.	Clusiaceae	Kimde	W	T	L	Arthritis in cattle	Poultice is mixed with mustard oil and applied.	Endangered
50	<i>Morinda angustifolia</i> Roxb	Rubiaceae	Chenong	W	Sh	L	Foot and mouth disease in bovine Constipation in bovine	Leaves are ground and mixed with black pepper and cloves and fed to the animal as well as applied on the foot. 3 leaves are collected and boiled with water and then given to drink.	Rare
51	<i>Murraya koenigii</i> (Linn.) Spreng	Rutaceae	Nolsing	W	Sh	L	Vomiting and loose motion in domestic animals	Crushed leaves are mixed with water and made to drink.	Sporadic
52	<i>Murdannia nudiflora</i> (L.) Brenan Var <i>Terminalis</i> (Figure 7F)	Commeliaceae	Do'o ampante	W	H	L	Pneumonia in fowls, cattle, swine	Leaves of <i>Murdannia nudiflora</i> , <i>Terminalia chebula</i> , <i>Andrographis paniculata</i> and beetle leaf are ground to a paste and mixed with powdered minerals and fed to the animal 2 times daily till cured. In case of swines this prepared medicine are further mixed with fermented bamboo shoot and preserved tamarind of three years and fed.	Common
53	<i>Myrica nagi</i> Linn.	Myricaceae	Bolmeseng	W	T	L, Fr	Avian flu and diarrhoea in cattle	Leaves and fruit juice are mixed with drinking water	Not evaluated

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								and fed.	
54	<i>Nelumbo nucifera</i> Gaertn.	Nelumbonaceae	Mongnal	HG	H	L, Fl	Poisoning in bovine and caprine	Bark of <i>Ziziphus mauritiana</i> and leaves of <i>Calotropis gigantea</i> and roots of <i>Hibiscus rosa-sinensis</i> and <i>Nelumbo nucifera</i> are ground to a paste and mixed with fruit juice of <i>Citrus indica</i> and fed orally.	Under cultivation
55	<i>Paederia foetida</i> L.	Rubiaceae	Pasim	W	Cl	Wp	Lack of appetite in swine	Plant is tied around the neck till it dries up completely or cured.	Sporadic
56	<i>Pandanus odoratissimus</i> (Kewda) (Fig. 7A)	Pandanaceae	Sakal	W	Sh	L	Tuberculosis in cattle	Decoction is made from fresh leaves and then administered to the animal by drenching.	Rare
57	<i>Peperomia pellucida</i> Kunth	Piperaceae	Samjim	W	H	L	Gallstone in bovine	Leaves are ground to a paste and mixed with water and give to drink 2-3 times a day.	Sporadic
58	<i>Phyllanthus parvifolius</i> (Wight) G.L.Webster	Euphorbiaceae	Lokdu chondon	W	Sh	L	Boils and warts in bovine	Plant is pounded and juice is extracted and then applied.	Vulnerable
59	<i>Physalis peruviana</i> Linn.	Solanaceae	Chitapu	W	H	L, Fr	Constipation in bovine	Preserved ripen fruits of tamarind and fruits of <i>Physalis peruviana</i> are pounded with black salt and river fish inside a hollow bamboo container. It is then fed to the animal once.	Sporadic
60	<i>Plagiogyria pycnophylla</i> (Kunze) Mett.	Plagiogyriaceae	Matri	W	P	L	Eye infection in avian	Leaves are crushed and juices are applied directly	Rare

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								to the eye with a dropper.	
61	<i>Premna latifolia</i> Roxb.	Verbanaceae	Do'kime	W	Sh	L	Flea infestation in poultry	Branches with leaves are tied inside the chicken coop to attract bird flea.	Not evaluated
62	<i>Prunus persica</i> (L.) Batsch	Rosaceae	Pisbol	HG	T	L, B	Wounds and maggot infection in bovines	Leaves of <i>Prunus persica</i> , <i>Dioscorea bulbifera</i> and bark of <i>Phyllanthus emblica</i> are pounded and mix with dettol and naphthalene balls and poured directly on wounds.	Under cultivation
63	<i>Psidium guajava</i> L.	Myrtaceae	Komperam	HG	T	L	Diarrhoea in bovine, fever and vomiting in cattle	Leaves of <i>Psidium guajava</i> , <i>Jatropha gossypifolia</i> and <i>Careya arborea</i> are ground to a paste and then mixed with food and fed.	Under cultivation
64	<i>Rhaphidophora decursiva</i> (Roxb.) Schott	Araceae	Angare	W	Li	L	Swelling of foot in bovine	Leaves are heated and then directly massaged to the foot.	Rare
65	<i>Rhaphidophora schottii</i> Hk.f.	Araceae	Dodmi japa	W	Li	L	Mange and ringworm in bovine, caprine etc.	Poultice is applied directly on skin. The procedure is continued 2-3 times a day till cured	Common
66	<i>Saccharum arundinaceum</i> Retz.	Poaceae	Me'garu	HG	H	L	Retained placenta in cattle	Decoction is fed orally to the animal to facilitate the expulsion of placenta.	Sporadic
67	<i>Sansevieria trifasciata</i> Prain (Figure 7E)	Asparagaceae	Samchipu	W	H	L	Snake poisoning in domestic animals	Poultice is mixed with water and then made the animal to drink.	Common
68	<i>Scoparia dulcis</i> L.	Plantaginaceae	Samgoldak	W	H	L	Constipation in swine	Leaves are ground and mixed with powdered turtle shell and honeycomb and then fed the animal	Common

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								along with feed.	
69	<i>Semecarpus anacardium</i> Linn. f.	Anacardiaceae	Bolagal	W	T	B	Internal bleeding in bovine	Decoction made from bark is administered to the animal orally.	Rare
70	<i>Smithia blanda</i> Wall.	Fabaceae	Dokamcheng	W	Sh	L	Fracture in cattle Blood clot in domestic animals	Leaves are ground to a paste and mixed with mustard oil and applied and wrap around with a piece of cloth. Leaves are ground to a paste and fed to treat blood clot.	Least concern
71	<i>Stephania japonica</i> (Thunb.) Miers	Menispermaceae	Samkusim	W	Cl	R	Heart infection in bovine	Roots are boiled in water and decoction is force fed to the animal.	Sporadic
72	<i>Tetrastigma leucostaphylum</i> (Dennst.) Alston ex Mabb.	Vitaceae	Apot sam	W	Sh	L	Bloating in cattle	Leaves are pounded and mixed with pork fat and mixed with feed and fed.	Not evaluated
73	<i>Urtica dioica</i> Linn.	Urticaceae	Gilmat	W	H	L	Maggot infection in bovine	Leaves are used to remove worms from infected skin.	Sporadic
74	<i>Vitex peduncularis</i> Wall. ex Schauert	Verbanaceae	Rangre	W	T	L	Fever in cattle	Crushed leaves are mixed with water and fed by drenching.	Not evaluated
75	<i>Zanthoxylum Scandens</i> Blume	Rutaceae	Sumitcheng	W	T	L, B	Swine fever	Leaves and bark of <i>Zanthoxylum Scandens</i> and <i>Zanthoxylum budrunga</i> are ground to a paste and mixed with feed and fed.	Endangered

Habit: T-tree, Sh-shrub, H-herb, Cl-climber, Ep-epiphytes, P-pteridophytes, Li-lianas; **Part used:** L-leaves, R-roots, B-bark, Fr-fruits, Fl-flowers, St-stems, WP-whole plant, Rh-rhizome, La-latex; **Habitat:** W-wild, HG-home garden