



Medicinal flora in Gurung Community, Manaslu conservation area (Gorkha, Gandari Province, Nepal)

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Sir,

We studied the Medicinal flora in Gurung Community, Manaslu conservation area (Gorkha, Gandari Province, Nepal). Manaslu Conservation Area (MCA) located in the mountainous region of northern Gorkha district of Gandaki province in Nepal (Appendix I). MCA is the third and youngest of its kind, succeeding in the Annapurna Conservation Area (established in 1985) and the Kanchenjunga Conservation Area (established in 1997). It was established on 28th December 1998 under the National Parks and Wildlife Conservation Act of Nepal, 2029 B.S with an area of 1663 sq. km. which encompasses seven rural municipalities. The geographic extension is between 28° 21' to 28° 45' North latitude and 84° 30' to 85° 12' East longitude. Its elevation spans significant variations from 1400 meters at Jagat to the summit of Mount Manaslu at 8163 meters. The MCA shares its borders with the Tibetan plateau of China to the north, the Langtang National Park to the east, the Annapurna Conservation Area to the west and the central part of Gorkha district to the south (MOP-CAMC, 2019).

The process of obtaining prior informed consent in the selected study area was involved discussing with MCAP members based on most ethnobotanical data collection (Alexiades, 1996). The key informants viz family head, village authorities, leaders, local officials, collectors were interviewed through semi-structured interviews including both small groups of people and individuals. The plants were identified in the field mostly through floristic literature (Cullen, 2006) and comparing photographs of the plants (KEW and KATH) as well as with the help of experts. We found several species (appendix II). Some of these could be examined further for the development of local OTC products.

The authors are thankful to Manaslu Conservation Area Project, Gorkha, Department of National Parks and Wildlife Conservation and Forest staff member, and local communities for giving us an opportunity to pursue this research and for providing NTNC-MCAP project financial support for the research.

DECLARATIONS OF INTEREST

None

DECLARATION OF HONOUR

We declare in our honor that our results are not fake and made up.

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Appendix II

Locally name/Nepali name	Botanical name of species	Uses
Guddhe	<i>Ageratum conyzoides</i> L.	Plant juice is applied in cuts to stop bleeding.
Saranchi	<i>Alternanthera sessilis</i> (L.) DC.	Decoction taken to cure fever.
Pansan	<i>Anaphalis contorta</i> (D.Don) Hook.f.	Used for nose bleeds.
Kurilo	<i>Asparagus racemosus</i> Willd.	Young twigs are cooked and taken as tonic.
Meemee	<i>Azadirachta indica</i> A.Juss.	Taken as blood purifier.
Makar kach	<i>Begonia picta</i> Sm.	Juice applied as an anti-leech agent.
Chutro/Musa lede	<i>Berberis asiatica</i> Roxb. ex DC.	Juice taken in diarrhoea and dysentery.
Jamane mandro	<i>Berberis napaulensis</i> (DC.) Spreng.	Fruit used in the treatment of urinary disorders.
Pakhnabed	<i>Bergenia ciliata</i> (Haw.) Sternb.	Root juice used for urinary troubles, roundworms and fever.
Lekhpainu/Saur	<i>Betula alnoides</i> Buch.-Ham. ex D.Don	Paste applied on snake bite.
Kalo Kuro	<i>Bidens pilosa</i> L.	The juice of the plant is applied to fresh cuts and wounds.
Simal	<i>Bombax ceiba</i> L.	Flower used in snake bites. Roots to enhance immunity booster.
Bhang	<i>Cannabis sativa</i> L.	Fresh twigs are given to cattle to treat diarrhoea.
Simrayo	<i>Cardamine hirsuta</i> L.	Shoot eaten to lower blood pressure and in cardiac problems.
Tejpat	<i>Cinnamomum tamala</i> (Buch.-Ham.) T.Nees & C.H.Eberm.	Leaves used as medicine for digestive problems.
Junge lahara	<i>Clematis montana</i> Buch.-Ham. ex DC.	Juice used in sinusitis.
Sunakhari	<i>Coelogyne cristata</i> Lindl.	Paste used in sores and boils.



Dhursil	<i>Colebrookea oppositifolia</i> Sm.	Root is used in epilepsy. Leaves are applied to wounds and bruises.
Pribi	<i>Cotoneaster microphyllus</i> Wall. ex Lindl.	Used as astrigent.
	<i>Cyathula capitata</i> Moq.	Roots are used to make medicine for boils.
Dubo	<i>Cynodon dactylon</i> (L.) Pers.	Plant juice is used in burning sensation, cuts and wounds.
Gofatdoth rabithai	<i>Datura stramonium</i> L.	Used to treat scabies.
Githa/Ban Tarul	<i>Dioscorea bulbifera</i> L.	Used for contraceptive pills.
Gathihare	<i>Duhaldea cappa</i> (Buch.-Ham. ex D.Don) Pruski & Anderb.	Juice is used in fever, indigestion and other stomach disorders.
Chhinki	<i>Elsholtzia fruticosa</i> (D.Don) Rehder	Given against tonsilitis.
Kurkure jhar	<i>Equisetum ramosissimum</i> Desf.	Used as clotting agent for wounds, nose bleeding.
Thangnum	<i>Euphorbia pseudosikkimensis</i> (Hurus. & Yu.Tanaka) Radcl.-Sm.	Latex has an important ecological function for pathogen protection.
Siude	<i>Euphorbia royleana</i> Boiss.	Applied to cure swelling of skin due to cutaneous and sub-cutaneous infection.
Phapar	<i>Fagopyrum esculentum</i> Moench	Juice taken orally during stomachache and gastritis.
Ban Timilo	<i>Ficus sarmentosa</i> Buch.-Ham. ex Sm.	Used in treatment of ulcers.
Khaniu	<i>Ficus semicordata</i> Buch.-Ham. ex Sm.	Fruits are given in small ulcers in groups in the mouth or in tongue.
Chitlange jhar	<i>Galinsoga parviflora</i> Cav.	Juice is used to help clot blood.
Dhasingre	<i>Gaultheria fragrantissima</i> Wall.	Used as antiseptic.
Allo	<i>Girardinia diversifolia</i> (Link) Friis	Flowers are taken to treat blood pressure.
Ban Karela	<i>Herpetospermum pedunculatum</i> (Ser.) C.B.Clarke	Fruit is used to treat bile diseases.
Okhar	<i>Juglans regia</i> L.	For curing toothache.
Asuro	<i>Justicia adhatoda</i> L.	For curing cough, fever, asthma and dysentery



Siltimur	<i>Lindera neesiana</i> (Wall. ex Nees) Kurz	Used as aromatic and carminative.
Khasre buti	<i>Mazus surculosus</i> D.Don	Juice is used to treat acidity.
Pani amala	<i>Nephrolepis cordifolia</i> (L.) C.Presl	Tuber juice is useful for dehydration.
Angeri	<i>Osbeckia stellata</i> Buch.-Ham. ex D.Don	Root juice used in stomachache.
Chari amilo	<i>Oxalis corniculata</i> L.	Rich in Vitamin C.
Lek angeri	<i>Pieris formosa</i> (Wall.) D.Don	Leaf extract is used as anthelmintic/rheumatism.
Kamale	<i>Pilea symmeria</i> Wedd.	Used in fracture parts.
Bajradanti	<i>Potentilla fulgens</i> Wall. ex Sims	Juice taken to treat stomach trouble, cough and cold.
Payun	<i>Prunus cerasoides</i> Buch.-Ham. ex D.Don	Stem applied on fractured bones and toothache.
Mayal	<i>Pyrus pashia</i> Buch.-Ham. ex D.Don	Taken to cure menstrual disorders.
Lali gurans	<i>Rhododendron arboreum</i> Sm.	Flower used to treat headache and make an alcohol.
Bhakimlo	<i>Rhus chinensis</i> Mill.	Fruit is used as medicine.
Sewa/Dar impate	<i>Rosa sericea</i> Lindl.	Paste of flower is applied to treat headaches and given in liver complaints.
Majitho	<i>Rubia manjith</i> Roxb.	Root paste for curing scabies and skin diseases.
Kalo ainselu	<i>Rubus pedunculatus</i> D.Don	Young leaves for stomach disorders.
Chile kath	<i>Sarcococca hookeriana</i> Baill.	Root is applied externally to treat gout.
Chopchini	<i>Smilax aspera</i> L.	Applied to the skin to alleviate scabies.
Kali gadi	<i>Solanum americanum</i> Mill.	Used to treat cancer of the cervix.
Dhude jhar	<i>Sonchus wightianus</i> DC.	Taken in jaundice.
Rate Bakhre Ghas	<i>Sunhangia elegans</i> (DC.) H.Ohashi & K.Ohashi	Used in the treatment of peptic ulcers.
Tida/Chraito	<i>Swertia chirayita</i> (Roxb.) H.Karst.	For curing fever.
Khenpa-Karpo	<i>Taraxacum tibetanum</i> Hand.-Mazz.	Used as medicine.



Dampate	<i>Thalictrum foliolosum</i> DC.	Root used for curing gastritis.
Amriso	<i>Thysanolaena latifolia</i> (Roxb. ex Hornem.) Honda	Used as abortifacient.
Sisnu	<i>Urtica dioica</i> L.	Leaves cooked and taken to maintain blood pressure.
Ashare	<i>Viburnum erubescens</i> Wall. ex DC.	Juice from the root is used to treat coughs.
Ban fasa/Ghat te ghas	<i>Viola pilosa</i> Blume	Root is used to treat stomach disorders.
Dudhe	<i>Youngia japonica</i> (L.) DC.	Used as remedy for indigestion.
Boke Timur	<i>Zanthoxylum acanthopodium</i> DC.	Taken in indigestion.
Parpare Timur	<i>Zanthoxylum armatum</i> DC.	Decoction used to treat toothaches, fever, and cough.
Hade Bayer	<i>Ziziphus incurva</i> Roxb.	Used in diarrhoea treatment.