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Quantitative indices-based study on ethnomedicinal plants utilised by the Adiyan community residing in Manathavady taluk, Wayanad, India

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Supplementary Data

Supplementary Table S1 — Quantitative analysis of ethnomedicinal information provided by the Adiyan tribal community in Mananthavady taluk of Wayanad district, Kerala, India (UV- Use Value, FC- Frequency of Citation, RFC- Relative Frequency of Citation)

Family	Part used	Method of preparation	Ailment treated (Number of informants)	Mode of use	Total no	UV	IAR	FC	RFC	CII	FIV
Acanthaceae											3.4
Hygrophila auriculata	Leaf	Decoction	Urinary disorders (4)	Orally	4	0.09	1.00	0.32	0.01	0.085106	
Justicia adhatoda	Leaf	Decoction	Cough, Cold (10)	Orally	15	0.32	0.86	1.2	0.03	0.64	
	Root	Decoction	Asthma (5)	Orally							
Justicia gendarussa	Leaf	Decoction	Arthritis (4), Inflammation (7), Rheumatism (5),	Orally	16	0.34	0.87	1.28	0.03	1.02	
Strobilanthes alternata	Leaf	Paste	Wound healing (8)	Topical	8	0.17	1.00	0.64	0.01	0.17	
Acoraceae											0.64
Acorus calamus	Rhizome	Decoction	Stomach pain (8)	Orally	8	0.17	1.00	0.64	0.01	0.17	
Aloaceae											1.12
Aloe vera	Gel, latex	Paste	Skin burning (3)	Topical	14	0.30	0.92	1.12	0.02	0.60	
	Gel, latex	Paste	Hair growth (11)	Topical							
Amaranthaceae											2.8
Alternanthera sessilis	Leaf	Paste	Hair growth (6)	Topical	6	0.13	1.00	0.48	0.01	0.13	
Amaranthus spinosus	Leaf	Paste	Anti-inflammation (2)	Orally	14	0.30	0.77	1.12	0.02	1.19	
	Leaf	Paste	Cancer (4)	Orally							
	Leaf	Paste	Digestive problem (3)	Topical							
	Leaf	Paste	Immunity-enhancing (5)	Orally							
Beta vulgaris	Rhizome	cooked	Blood purification (7)	Orally	7	0.15	1.00	0.56	0.01	0.15	
Cyathula prostrata	Stem, leaf	Paste	Menstruation pain (8)	Orally	8	0.17	1.00	0.64	0.01	0.17	
Apiaceae											2.24
Coriandrum sativum	Seeds	Decoction	Diabetes (14)	Orally	16	0.34	0.93	1.28	0.03	0.68	
	Seeds	Decoction	Glucoma(2)	Orally							
Centella Asiatica	Leaf	Decoction	Stomachache (7)	Orally	12	0.26	0.91	0.96	0.02	0.51	

	Leaf	Paste	Urinary infection (5)	Orally							
Apocynaceae											1.12
Alstonia scholaris	Leaf	Paste	Skin infection (1)	Orally	1	0.02	0	0.08	0.00	0.02	
Catharanthus roseus	Whole plant	Decoction	Diabetes (3)	Oraly	3	0.06	1.00	0.24	0.01	0.06	
Rauvolfia serpentina	Bark	Paste	Stomachache (7)	Orally	7	0.15	1.00	0.56	0.01	0.15	
Wrightia tinctoria	Bark	Paste	Psoriasis (1)	Topical	3	0.06	0.50	0.24	0.01	0.13	
	Bark	Paste	Toothache (2)	Topical							
Araceae											0.08
Rhaphidophora pertusa	Bark	Paste	Stomachache (1)	Orally	1	0.02	0.00	0.08	0.00	0.02	
Arecaceae											0.8
Areca catechu	Shoot apex	Juice	Delivery pain (2)	Orally	2	0.04	1.00	0.16	0.00	0.04	
Cocos nucifera.	Root	Decoction	Urinary infection (8)	Orally	8	0.17	1.00	0.64	0.01	0.17	
Aristolochiaceae											0.24
Aristolochia indica	Leaf	Paste	Snake bite (3)	Topical	3	0.06	1.00	0.24	0.01	0.06	
Asparagaceae											1.12
Asparagus racemosus	Rhizome	Decoction, Juice	Ulcer (6), Stomachache (8)	Orally	14	0.30	0.92	1.12	0.02	0.60	
Asclepiadaceae											1.52
Hemidesmus indicus	root	Decoction	Blood purification (7)	Orally	17	0.36	0.94	1.36	0.03	0.72	
	rhizome	Decoction	Stomachache (10)	Orally							
Calotropis gigantea	Leaf	Oil	Stomach disorder (2)	Topical	2	0.04	1.00	0.16	0.00	0.04	
Asteraceae											2.88
Cyanthillium cinereum	leaf	Juice	Blood Purification (4)	Orally	13	0.28	0.92	1.04	0.02	0.55	
	Bud, flower	Paste	Eye disease (9)	Topical							
Emilia sonchifolia	Stem, leaf	Juice	Body swelling (7)	Topical	7	0.15	1.00	0.56	0.01	0.15	
Spilanthus acmella	Flower	Paste	Toothache (16)	Orally,	16	0.34	1.00	1.28	0.03	0.34	
Burseraceae											1.44
Commiphora caudata	Bark	Paste	Bone fracture (18)	Topical	18	0.38	1.00	1.44	0.03	0.38	
Caricaceae											0.72
Carica papaya	leaf	Cooked	Body pain (2)	Orally	9	0.19	0.88	0.72	0.02	0.38	
	Latex, Fruit	Cooked	Worm infestation (7)	Orally							
Caesalpiniaceae											0.96
Caesalpinia bonduc	Seeds	Cooked	Stomach disorder (12)	Orally	12	0.26	1.00	0.96	0.02	0.26	
Clusiaceae											0.72
Garcinia gummi-gutta	Fruit	Oil	Ulcer (9)	Orally	9	0.19	1.00	0.72	0.02	0.19	
Colchicaceae											0.48
Gloriosa superba	Leaf	Paste	Delivary pain (1)	Topical	6	0.13	0.80	0.48	0.01	0.26	
	Leaf	Paste	Spider poisoning (5)	Topical							
Companulaceae											0.72
Lobelia nicotianifolia	Leaf	Decoction	Rheumatism (9)	Topical	9	0.19	1.00	0.72	0.02	0.19	
Convolvulaceae											0.8
Ipomoea mauritiana	Leaf, root	Paste	Fever (4)	Topical	10	0.21	0.89	0.8	0.02	0.43	
	Leaf, root	Paste	Headache (6)	Topical							
Cucurbitaceae											1.04
Benincasa hispida	Leaf	Paste	Burning (1)	Topical	1	0.02	0.00	0.08	0.00	0.02	
Coccinia grandis	Fruit	Cooked	Diabetes (5)	Orally	5	0.11	1.00	0.4	0.01	0.11	
Momordica dioica	Leaf	Paste, Decoction	Rabies (7)	Orally	7	0.15	1.00	0.56	0.01	0.15	
Euphorbiaceae											2.96

Phyllanthus amarus	Leaf	Paste	Jaundice (19)	Orally	19	0.40	1.00	1.52	0.03	0.40	
Ricinus communis	Leaf, bark	Decoction	Toothache (10)	Orally	10	0.21	1.00	0.8	0.02	0.21	
Tragia involucrata	Leaf	Juice	Asthma (2)	Orally	8	0.17	0.86	0.64	0.01	0.34	
	Leaf	Juice	Rheumatism (6)	Orally							
Fabaceae											3.68
Clitoria ternatea	Root	Decoction	Stomachache (10)	Orally	10	0.21	1.00	0.8	0.02	0.21	
Desmodium triflorum	Whole plant	Paste	Itching (7)	Topical	7	0.15	1.00	0.56	0.01	0.15	
Erythrina variegata	Leaf	Paste	Burning (4)	Topical	4	0.09	1.00	0.32	0.01	0.09	
Pongamiass pinnata	Bark	Paste	Stomach cleaning (5)	Orally	5	0.11	1.00	0.4	0.01	0.11	
Senna tora	Leaf	Juice	Eye itching (2)	Topical	12	0.26	0.82	0.96	0.02	0.77	
	Leaf	Paste	Poisonous bite (1)	Topical							
	Leaf	Juice	Stomachache (9)	Orally							
Tamarindus indica	Leaf	Paste	Bone fracture (8)	Topical	8	0.17	1.00	0.64	0.01	0.17	
Hypoxidaceae											0.16
Curculigo orchioides	Rhizome	Powder	Asthma (2)	Orally	2	0.04	1.00	0.16	0.00	0.04	
Lamiaceae											9.68
Ocimum tenuiflorum	Leaf	Decoction	Cough, cold (20)	Orally	57	0.93	0.95	4.56		4.85	
	Leaf	Decoction	breathing problem (15)	Inhalation							
	Leaf	Decoction	Fever (18)	Orally							
	inflorescence	Paste	Eye irritation (4)	Topical							
Coleus barbatus	Leaf	Juice	Cough, cold (17)	Orally	33	0.70	0.97	2.64	0.06	1.40	
	Leaf	Juice	Fever (16)	Orally							
Vitex negundo	Leaf	Juice	Arthritis (10), Rheumatism (9)	Orally	25	0.53	0.92	2	0.04	1.60	
	Leaf	Juice	Ulcer (6)	Orally							
Leucas aspera	Leaf	Decoction	Bleeding in the head (1)	Orally	6	0.13	0.80	0.48	0.01	0.26	
	Leaf	Decoction	Epilepsy (5)	Inhalation							
Loganiaceae											0.56
Strychnos nux-vomica	Seed	Paste	Stomachache (7)	Orally	7	0.15	1.00	0.56	0.01	0.15	
Malvaceae											4.24
Hibiscus rosa-sinensis	Leaf	Paste	Dandruff (22)	Topical	22	0.47	1.00	1.76	0.04	0.47	
Sida cordifolia	Root	Decoction	Arthritis (21), Backpain (10)	Orally	31	0.66	0.97	2.48	0.05	1.32	
Marantaceae											1.6
Maranta arundinacea	Rhizome	Decoction, Powder	Urine infection (20)	Orally	20	0.43	1.00	1.6	0.03	0.43	
Meliaceae											4.16
Azadirachta indica	Leaf	Decoction	Allergy (15)	Orally	52	1.11	0.94	4.16	0.09	4.43	
	Leaf	Decoction	Chicken pox (28)	Orally							
	Leaf	Decoction	Jaundice (6)	Orally							
	Leaf	Decoction	Toothache (3)	Orally							
Menispermaceae											0.72
Tinospora cordifolia	Leaf	Paste	Fever (9)	Topical	9	0.19	1.00	0.72	0.02	0.19	
Mimosaceae											2.16
Mimosa pudica	Root, stem, leaf	Decoction	Ulcer (12)	Orally	27	0.57	0.92	2.16	0.05	1.72	
		Paste	Headache (7)	Orally							
		Paste	Wound healing (8)	Topical							
Moringaceae											0.88
Moringa oleifera	Bark, leaf	Decoction	Stomachache (11)	Orally	11	0.23	1.00	0.88	0.02	0.23	
Moraceae											2
Artocarpus heterophyllus	Leaf, bark	Decoction	Body pain (10)	Orally	18	0.38	0.94	1.44	0.03	0.77	
		Paste	mumps (8)	Topical							
Ficus racemosa	Root	Decoction	Blood pressure (7)	Orally	7	0.15	1.00	0.56	0.01	0.15	
Myristicaceae											1.04
Myristica fragrans	Seed	Paste	Stomachache (13)	Orally	13	0.28	1.00	1.04	0.02	0.28	

Myrtaceae											3.04
Psidium guajava	Leaf	Decoction	Diabetes (18)	Orally	18	0.38	1.00	1.44	0.03	0.38	
Syzygium cumini	Fruit	Raw	Oral infection (6)	Orally	20	0.43	0.84	1.6	0.03	1.70	
	Fruit	Raw	Diabetes (11)	Orally							
	Fruit	Raw	Weight loss (2)	Orally							
	Fruit	Raw	Cancer (1)	Orally							
Nyctanginaceae											1.52
Boerhavia diffusa	Leaf, stem	Decoction	Kidney disorder (19)	Orally	19	0.40	1.00	1.52	0.03	0.40	
Oxalidaceae											3.12
Oxalis corniculata	Leaf	Paste	Nail fungus (9)	Topical	20	0.43	0.95	1.6	0.03	0.85	
	Leaf	Paste	Ulcer (11)	Orally							
Biophytum sensitivum	Whole plant	Paste	Head Ache (13)	Topical	19	0.40	0.94	1.52	0.03	0.81	
	Whole plant	Paste	Cough (6)	Orally							
Orchidaceae											0.24
Vanda testacea	Leaf	Juice	Microorganism in ear (3)	Topical	3	0.06	1.00	0.24	0.01	0.06	
Pandanaceae											0.08
Pandanus odorifer	Inflorescence	Paste	Better vision (1)	Orally	1	0.02	0.00	0.08	0.00	0.02	
Piperaceae											5.04
Piper betle	Leaf	Juice	Stomachache (7)	Orally	7	0.15	1.00	0.56	0.01	0.15	
Piper nigrum	leaf	Paste	Toothache (11)	Orally,Topical	56	1.19	0.95	4.48	0.10	4.77	
	leaf	Decoction	body pain (7)	Orally							
	Seed, root, stem	Decoction	Cough (20), cold (18)	Orally							
Poaceae											2.24
Bambusa vulgaris	Shoot apex	Cooked	Body damage (5)	Orally	5	0.11	1.00	0.4	0.01	0.11	
Cynodon dactylon	Whole plant	Decoction, Oil	Kidney disorder (8)	Orally	17	0.36	0.94	1.36	0.03	0.72	
			Hair fall (9)	Topical							
Eleusine coracana	Seeds	Decoction, Paste	Bone fracture (6)	Orally, Topical	6	0.13	1.00	0.48	0.01	0.13	
Rananculaceae											1.04
Clematis zeylanica	Seeds	Paste	Wound healing (8)	Topical	13	0.28	0.92	1.04	0.02	0.55	
	Seeds	Paste	Toothache (5)	Topical							
Rutaceae											5.12
Aegle marmelos	Leaf, Root, Fruit	Decoction, Powder	Asthma (14)	Orally	33	0.70	0.94	2.64	0.06	2.11	
			Bronchitis (11)	Orally							
			Eye inflammation (8)	Orally							
Citrus limonum	Fruit	Paste	Nail fungus (9)	Topical	9	0.19	1.00	0.72	0.02	0.19	
Glycosmis pentaphylla	Leaf	Paste	Stomachache (1)	Orally	1	0.02	0.00	0.08	0.00	0.02	
Naringi crenulata	Leaf	Juice	Stomach disorders (2)	Orally	2	0.04	1.00	0.16	0.00	0.04	
Ruta graveolens	Leaf	Paste	Stomachache (11), Digestion problems (8)	Orally	19	0.40	0.94	1.52	0.03	0.81	
Rubiaceae											0.4
Mussaenda frondosa	Leaf	Paste	Dandruff (5)	Topical	5	0.11	1.00	0.4	0.01	0.11	
Scrophulariaceae											4.08
Bacopa monnieri	Leaf	Decoction, Paste	Memory enhancing (23)	Orally	27	0.57	0.96	2.16	0.05	1.15	
			Speech ability (4)	Orally							
Scoparia dulcis		Paste, Juice	Kidney stone (24)	Orally, Topical	24	0.51	1.00	1.92	0.04	0.51	
Solanaceae											4.96
Datura stramonium	Whole plant	Decoction	Body pain (16)	Orally	16	0.34	1.00	1.28	0.03	0.34	
Physalis angulata	Leaf	Decoction	Asthma (7)	Orally	28	0.60	0.85	2.24	0.05	2.98	
			Dermatitis (5)	Topical							

			Hepatitis (7)	Orally							
			Rheumatism (6)	Orally							
			Malaria (3)	Orally							
Solanum americanum	Leaf	Paste	Sneezing (9)	Orally	9	0.19	1.00	0.72	0.02	0.19	
Solanum nigrum	Leaf, fruit	Paste, Juice	Body swelling (6)	Topical	9	0.19	0.88	0.72	0.02	0.38	
			Ulcer (3)	Orally							
Sterculiaceae											1.28
Helicteres isora	Seeds	Oil	Dandruff (16)	Topical	16	0.34	1.00	1.28	0.03	0.34	
Verbanaceae											0.8
Lantana camara	Whole plant	Powder	Burning (10)	Topical	10	0.21	1.00	0.8	0.02	0.21	
Zingiberaceae											8.32
Curcuma longa	Rhizome	Paste, Powder	Honey bee bite (20)	Topical	69	1.47	0.97	5.52	0.12	4.40	
			Stomachache (19)	Orally							
			Wound healing (30)	Topical							
Zingiber officinale	Rhizome	Decoction	Digestive problem (35)	Orally	35	0.74	1.00	2.8	0.06	0.74	

Supplementary Table S2 — ICF Value for the illness category and FL% for the reported plants (FL- Fidelity level, ICF- Informant consensus factor)

Sl No.		No. of use reports (Nur)	No. of species (Nt)	ICF	FL%
1	Circulatory system ailment	26	5	0.84	*Beta vulgaris* (100), *Hemidesmus indicus* (41), *Cyanthillium cinereum* (31), *Leucas aspera* (17), *Ficus racemosa* (100)
2	Dermatological ailment	135	14	0.903	*Strobilanthes alternata* (100), *Alstonia scholaris* (100), *Wrightia tinctoria* (33), *Benincasa hispida*(100), *Erythrina variegata* (100), *Hibiscus rosa-sinensis* (100), *Azadirachta indica* (29), *Mimosa pudica* (30), *Clematis zeylanica* (61), *Mussaenda frondosa* (100), *Solanum nigrum* (67), *Helicteres isora* (100), *Lantana camara* (100), *Curcuma longa*. (43)
3	Ear, nose, throat ailments	47	6	0.891	*Wrightia tinctoria* (67), *Spilanthus acmella* (100), *Ricinus communis* (100), *Azadirachta indica* (6), *Piper nigrum* (20), *Clematis zeylanica* (38)
4	Eye ailments	26	6	0.8	*Coriandrum sativum* (12), *Cyanthillium cinereum* (69), *Senna tora* (17), *Ocimum tenuiflorum* (7), *Pandanus odorifer* (100), *Aegle marmelos* (24)
5	Endocrinal ailment	58	6	0.912	*Coriandrum sativum* (87), *Catharanthus roseus* (100), *Coccinia grandis* (100), *Psidium guajava* (100), *Syzygium cumini* (55), *Physalis angulata* (25)
6	Fever ailment	47	4	0.934	*Ipomoea mauritiana* (40), *Ocimum tenuiflorum* (31), *Coleus barbatus* (48), *Tinospora cordifolia* (100)
7	Gastrointestinal digestive disorder	246	27	0.893	*Acorus calamus* (100), *Aloe vera* (21), *Amaranthus spinosus* (21), *Centella Asiatica*(58), *Rauvolfia serpentina* (100), *Rhaphidophora pertusa* (100), *Asparagus racemosus* (100), *Hemidesmus indicus* (59), *Calotropis gigantea* (100),*Garcinia gummi-gutta* (100), *Clitoria ternatea.* (100), *Pongamia pinnata* (100), *Senna tora* (75), *Vitex negundo* (24), *Strychnos nux-blanda* (100), *Mimosa pudica* (44), *Moringa oleifera* (100), *Myristica fragrans* (100), *Oxalis corniculata* (55), *Piper betle* (100), *Glycosmis pentaphylla* (100), *Naringi crenulata* (100), *Ruta graveolens* (100), *Solanum nigrum* (67), *Curcuma longa* (43), *Zingiber officinale* (100), *Caesalpinia bonduc* (100).
8	General health	35	5	0.882	*Aloe vera* (78), *Alternanthera sessilis* (100), *Amaranthus spinosus* (36), *Cynodon dactylon* (53), *Bacopa monnieri* (15)
9	Genitourinary ailment	99	10	0.908	*Hygrophila auriculata* (100), *Cyathula prostrata* (100), *Centella Asiatica* (42), *Areca catechu* (100), *Cocos nucifera* (100), *Gloriosa superba* (17), *Maranta arundinacea* (100), *Boerhavia diffusa* (100), *Cynodon dactylon* (47), *Scoparia dulcis* (100)
10	Skeletal and muscular ailment	182	18	0.856	*Justicia gendarussa* (100), *Amaranthus spinosus* (14), *Emilia sonchifolia (*100), *Commiphora caudata* (100), *Lobelia nicotianifolia* (100), *Tragia involucrata* (75), *Desmodium triflorum* (100), *Tamarindus indica* (100) *Vitex negundo* (36), *Sida cordifolia* (100), *Artocarpus heterophyllus* (55), *Syzygium cumini* (10) *Piper nigrum* (12), *Bambusa vulgaris* (100), *Eleusine coracana* (100), *Carica pappaya* (22), *Datura stramonium* (100), *Physalis angulata* (18)

11	Respiratory ailments	156	10	0.942	*Justicia adhatoda* (100), *Tragia involucrata* (25) , *Curculigo orchioides* (100*), Ocimum tenuiflorum* (61), *Coleus barbatus* (51), *Biophytum sensitivum* (31), *Piper nigrum* (68) *Aegle marmelos* (76), *Solanum americanum* (100), *Physalis angulata* (25)
12	Infectious and parasitic ailment	62	8	0.885	*Carica papaya* (78), *Phyllanthus amarus* (100), *Azadirachta indica* (11), *Syzygium cumini* (30), *Oxalis corniculata* (45), *Vanda testacea* (100), *Citrus limonum* Risso (100), *Physalis angulata* (11)
13	Nervous system ailment	54	5	0.924	*Ipomoea mauritiana* (60), *Leucas aspera* (83), *Mimosa pudica* (26), *Biophytum sensitivum*(68), *Bacopa monnieri* (85)
14	Oncology	5	2	0.75	*Amaranthus spinosus* (28), *Syzygium cumini* (5)
15	Poison	36	5	0.886	*Aristolochia indica* (100), *Gloriosa superba* (83), *Momordica dioica* (100), *Senna tora* (8.3), *Curcuma longa* (29)
16	Viral disease	36	2	0.974	*Azadirachta indica* (54), *Artocarpus heterophyllus*(44)