CHAPTER

ETHNOBOTANICAL PRACTICES

It aimed to collect ethnobotanical data for its documentation and to know the relation of demographic variables on usage of traditional practices among the study population. The total number of mothers (N) interviewed during the study for this objective was N = 387 women. All respondents, whether users of traditional practices or non-users, were counted for socio-demographic details and their attitudes towards it.

The study area is an urban location; hence, the participants recruited for the study were of diverse socio-economic groups. The participants were not just restricted for Gujarat state but were also from other states of India. The respondents were co-operative with the study and responded well to the questions asked. The knowledge about herb was found mostly in respondents' local language.

A modified Kuppuswamy socio-economic scale was used to analyze the women's socioeconomic status. It is most popular scale used in India for urban area, which accounts for education, occupation, and total monthly income of the family (Saleem & Jan 2021). As it requires regular updates, the recently updated modified scale of 2021 was used.

5.1 SOCIO-DEMOGRAPHIC CHARACTERS OF THE STUDY POPULATION

As shown in Table 2, the median age of the parturient female (N = 387) in the study population was 29 years, with a range of 20 years to 48 years.

66.67% of mothers followed the Hindu religion, followed by Muslim (15.76%), and the rest like Christian (7.24%), Sikh (4.91%), and Jain (5.43). Then birthplace was recorded as their state of India. The respondents were from India's 12 diverse states and union territories, representing 33.33% (12/36) of India's states and union territories. Among all, 67.7% of respondents were found to be born in Gujarat state, followed by Madhya Pradesh (4.95%) and Maharashtra (4.65%). With 1.29%, birthplace as West Bengal was found to be answered by the least respondents. While asking about the participants' marital status, 96.6% were found married and cohabiting with their partners. However, the rest respondents were noncohabiting with their partner or were single (3.4%). The study found that 87.86% of respondents were living as nuclear family, followed by 8.53% in joint and 3.62% in extended families.

The domicile in the state was also studied for the population. Here, 63.3% of respondents were found residing in Gujarat state since birth, followed by 14.98%, who have been residing there for more than ten years. Looking at the education profile of the respondents, 2.84% were found illiterate. Up to higher secondary education was common in 84.5% of women, followed by graduation, post-graduated and more qualifications. Most of the studied mothers were unemployed and homemakers (85.27%). However, Employed, self-employed, and part-time women were reported as 6.72%, 4.91%, and 3.1%, respectively.

The Kuppuswamy socio-economic scale (2021) indicated that the major population studied belongs to the lower middle class, upper lower class, and lower class at 27.9%, 30.7%, and 25.32%, respectively. Upper and upper middles were represented only by 4.13% and 11.8% of women. The details of previous pregnancies are crucial to know the traditional herbal usage. Here, most of the mothers were primiparous (64.4%), followed by multiparous with two children (32.56) or more (3.10%). The regular diet of the studied mothers was vegetarian (63.56%) than non-vegetarian or mixed (36.43%). It was found that most of the respondents did not follow any dietary restrictions during pregnancy (89.66%). The study population was healthy at the interview, as 87.86% had posed no health-related issues. Rest women had diabetes, blood pressure, polycystic ovary syndrome, thyroid, obesity, and malnutrition.

The details in the table are given as the frequency of the responses recorded and their percentage to the total number of respondents.

Religion 258 66.67 Muslim 61 15.76 Christian 28 7.24 Sikh 19 4.91 Jain 21 5.43 Birthplace (state)	Study population variable	Frequency (N= 387)	Percentage (%)
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	> 10 years	58	14.98

TABLE 2: DEMOGRAPHIC CHARACTERISTICS OF THE STUDY POPULATION

Educational qualification		
Primary	17	4.39
Higher secondary	327	84.50
Graduation	20	5.17
Postgraduate and more	12	3.10
-		
Illiterate	11	2.84
Occupation		
Unemployed or housewife	330	85.27
Employed	26	6.72
Self-employed	19	4.91
Part-time	12	3.10
Income group	25	0.04
Low	35	9.04
Medium	333	86.05
High	19	4.91
<i>Kuppuswamy socio-economic status (2021 scale)</i> (Saleem & Jan, 2021)		
Upper (I)	16	4.13
Upper middle (II)	46	11.88
Lower middle (III)	108	27.90
Upper lower (IV)	119	30.74
Lower (V)	98	25.32
Parity		
One	249	64.34
Two	126	32.56
≥Three	12	3.10
		0.10
Regular diet		
Vegetarian	246	63.56
Non-vegetarian or mixed	141	36.43
Diet restrictions followed during pregnancy		
Yes	40	10.34
No	347	89.66
Presence of health problems not related to		
gestation	_	
Diabetes	9	2.33
Blood pressure	6	1.55
Polycystic ovary syndrome	4	1.03
Thyroid disease	10	2.58
Obesity	5	1.29
Malnutrition	3	0.78
More than one of the above	10	2.58
None of the above	340	87.86
5		

5.2 ATTITUDE OF RESPONDENTS TOWARDS TRADITIONAL PRACTICES

Further, the questions were asked to know the attitude and usage of traditional practices during the gestation period. It included five test questions to classify the positive, negative, or neutral responses. Any three questions answered positively were classified as having a positive attitude. As shown in Table 3, 54 out of 387 respondents (13.96%) answered that they did not use traditional or herbal practices during gestation. However, 333/387 respondents (86.04%) agreed they had used traditional herbal practices. These two groups are treated further as users of traditional practices and non-users. 79.33% of respondents agreed that herbal drugs are cheaper, 78.29% agreed they are safe, 86.56% agreed they could be used during gestation, 86.26% agreed its more effective, and 82.43% agreed its readily available. Further, the inference could be drawn that 92.51% of mothers had a positive attitude toward herbal traditional medicines usage. However, 7.49% of women had a negative or neutral attitude toward traditional practices.

TABLE 3: DETAILS OF THE ATTITUDE TOWARDS TRADITIONAL, HERBAL PRACTICES DURING GESTATION

Attitude variable	Frequency (N= 387)	Percentage (%)
Practiced any herbal drugs during gestation		
Yes (Traditional practices user)	333	86.04
No (Traditional practices non-user)	54	13.96
Herbal drugs are cheaper		
Agree	307	79.33
Disagree	48	12.40
Unknown	32	8.27
UTIKNUWIT	52	0.27
Herbal drugs are safe		
Agree	303	78.29
Disagree	37	9.56
Unknown	47	12.14
Herbal drugs can be used in gestation		
Agree	335	86.56
Disagree	33	8.53
Unknown	19	4.91
Herbal drugs are more effective		
Agree	336	86.82
Disagree	34	8.79
Unknown	17	4.39

Herbal drugs are readily available		
Agree	319	82.43
Disagree	30	7.75
Unknown	38	9.82
Inferred attitude towards herbal drugs		
Positive	358	92.51
Negative / Neutral	29	7.49
Negutive / Neutrur	25	7.45

The table representing attitude towards herbal drugs during gestation represents frequency and percentages.

5.3 TRADITIONAL PRACTICES: KNOWLEDGE AND SATISFACTION LEVEL

The questionnaire was continued for the respondents who declared that any traditional practices had been used during the gestation period (N=333). Their knowledge about herbal practices, satisfaction level, and adverse side effects (if any) were recorded, as shown in Table 4.

The majority of traditional practices user were found to be using more than one class of drugs and medicines during pregnancy (94.89%). The rest of the participants had used either unani/siddha (1.5%), ayurvedic (1.2%), or naturopathy or herbal drugs (0.9%). Further, most respondents answered that they used traditional practices almost throughout their gestation (84.08%) than 2.7% during antenatal, 3.6% during parturition, and 9.6% postpartum. When asked about known individuals using similar practices to theirs, respondents answered family members (85.29%) as the most common answer. Known individuals of distant ethnicity were least likely (1.8%) for this answer. Satisfaction level on the Likert scale was tested. Most respondents (83.18%) answered that they were very satisfied with traditional practices. 5.41% answered somewhat satisfied, 5.74% were neither satisfied nor dissatisfied, 3.9% were somewhat satisfied, and 1.8% were dissatisfied. Only 3.6% of respondents answered that side effects experienced during traditional practices used than 96.4% who had not.

5.4 BIVARIATE ANALYSIS TO PREDICT THE ASSOCIATED FACTORS OF TRADITIONAL PRACTICE

The use of traditional practices among women might depend on various associated variables. Fisher's exact test was used with contingency data for bivariate analysis to predict the variables associated with the use of traditional practices. The variables were converged to a bivariate, as given in table 5. In analysis, the first variable was default set as a reference to calculate Odds ratios.

Variable	Frequency (N= 333)	Percentage (%)
Class of drugs used during gestation		
Traditional/herbal/home remedies	3	0.90
Ayurvedic	4	1.20
Homeopathic	2	0.60
Unani/ Sidhha	5	1.50
Naturopathy	3	0.90
More than one class used	316	94.89
Period of gestation where herbal drugs are used		
Antenatal	9	2.70
Parturition	12	3.60
Postpartum	32	9.61
All the above	280	84.08
Other known individuals using similar herbal practices	204	05.20
Family members Members of same ethnicity	284 25	85.29 7.51
Members of another ethnicity	18	5.41
Ethnically distant known person	6	1.80
Level of satisfaction using herbal drugs (Likert scale)		
Very satisfied	277	83.18
somewhat satisfied	18	5.41
Neither satisfied nor dissatisfied	19	5.71
somewhat dissatisfied	13	3.90
Dissatisfied	6	1.80
Any side effects experienced while using herbal medicines		
Yes	12	3.60
No	321	96.40
	1	

TABLE 4: KNOWLEDGE AND PRACTICES OF WOMEN USING HERBAL DRUGS DURING GESTATION.

Further, the odds of women born in Gujarat and being traditional practices users was 2.195 (Cl 1.215 - 3.922) times more than women born outside Gujarat, with a statistically significant p-value of 0.011. Participants cohabiting with partners were shown to be more likely to be

herbal users than non-cohabiting with an odds ratio of 1.126 (Cl 0.243 – 4.852) but was not statistically significant. With a significant p-value of \leq 0.001, women residing in the nuclear family had 41.85 (Cl 18.78 – 93.06) times the odds of being traditional practices user than women in joint and extended families.

However, the time of residence in Gujarat state by birth had non-significant odds of 1.032 (Cl 0.415 - 2.424) times being herbs user. Further, women of higher secondary and above were 3.977 (Cl 1.740 - 9.005) times more likely to be an herbal user than women having a primary or lower level of education (p-value 0.002). Occupation and income also play a major role in deciding attitudes toward traditional practices. The respondent being employed and using herbs was less likely than those being unemployed or housewives (OR 0.480 (0.238 - 0.978) was statistically non-significant. This suggested that unemployed women or housewives are more likely to be users.

Further, to understand the socio-economic status a modified Kuppuswamy scale (2021) was used in a bivariate format. A significantly (p-value \leq of 0.017) poor odds of 0.357 (Cl 0.167 – 0.772) for middle- and high-income groups suggests that women from low-income group families are more likely to be herbal users. Respondents with up to two children have statistically non-significant odds of 2.321 (Cl 0.658 – 8.186) for being herb users. Vegetarian respondents were 3.945 (Cl 2.187 – 7.373) times more likely to be herb users, and it was significant (p-value \leq 0.001).

Those respondents who did not follow diet restrictions were less likely to be traditional practices user, with non-significant odds of 0.611 (CI 0.261 - 1.327). It provides the likelihood of mothers being herb users if they had followed any diet restrictions during gestation. The attitude towards herbal practices can be a predictive variable for traditional herbal users. As shown in Table 5, women with a positive attitude towards traditional practices are 32.02 (CI 13.27 - 79.12) times more likely to use herbs during the pregnancy period. Moreover, this data was statistically significant, with a p-value ≤ 0.001 .

The table suggests that religion, birthplace, family size, education, income, regular diet, and attitude toward traditional practices are statistically significant predictors of herbal use during gestation.

Variable	Traditional practices users N = 333	Traditional practices non-user N = 54	Odds ratio OR (95% Cl)	p- value
Religion				
Hindu	248	10	1	
Others	85	44	12.84 (6.305-25.80)	≤0.001
Birthplace (state)				
Gujarat	234	28	1	
Other states	99	26	2.195 (1.215 – 3.922)	0.011
Marital status				
Cohabiting married	322	52	1	
Non-cohabiting	11	2	- 1.126 (0.243 – 4.852)	0.700 ns
Cize of fam: !! .				
Size of family	320	20	1	
Nuclear family Joint & extended	13	34	41.85 (18.78 – 93.06)	≤0.001
Joint & extended	12	54	41.85 (18.78 - 55.00)	≥0.001
Time of residence in Gujarat state				
By birth	291	47	1	
Migrated	42	7	1.032 (0.415 – 2.424)	>0.999 ns
Education				
Higher secondary	315	44	1	
and above	515		-	
Primary and below	18	10	3.977 (1.740 – 9.005)	0.002
o				
Occupation		10	1	
Employed	44	13	1	0.050
Unemployed or housewife	289	41	0.480 (0.238 – 0.978)	0.059 ns
Income groups				
Low income	25	10	1	
Mid to high	308	44	0.357 (0.167 – 0.772)	0.017
Darity				
Parity	324	51	1	
Up to two children More than two children	9	3	1 2.321 (0.658 – 8.186)	0.226 ns

TABLE 5: BIVARIATE ANALYSIS FOR FACTORS PREDICTING THE USAGE OF HERBAL MEDICINES.

Regular diet				
Vegetarian	227	19	1	
Non-vegetarian	106	35	3.945 (2.187 – 7.373)	<0.001
Diet restrictions followed during gestation				
Yes	32	8	1	
No	301	46	0.611 (0.261 – 1.327)	0.234 ns
Attitude towards traditional practices				
Positive	326	32	1	
Neutral or negative	7	22	32.02 (13.27 – 79.12)	<0.001

5.5 MULTIPLE LOGISTIC REGRESSION ANALYSIS OUTCOMES

The traditional herbal practices usage was found to be associated with multiple variables. Multiple logistic models were generated to check their association with herbal practice users. All variables found significant in bivariate analysis were used for model building, and only those found significant are presented in Table 6.

Model	Variable	Odds ratio	95% CI	p-value
Traditio	nal practice user ~ Marital status + Size o	f Family		
	Intercept	16.00	10.47 to 25.97	≤0.001
	Marital status (non-cohabiting)	88.00	13.88 to 989.9	≤0.001
	Size of family (joint & extended)	0.003	0.0006 to 0.014	≤0.001
Traditio	nal practice user ~ Marital status + Size o	f Family + Oco	cupation	
	Intercept	3.385	1.878 to 6.543	≤0.001
	Marital status (non-cohabiting)	88.00	13.88 to 989.9	≤0.001
	Size of family (joint and extended)	0.001	0.0002 to 0.006	≤0.001
	Occupation (unemployed or	11.65	4.520 to 32.52	≤0.001
	housewife)			

TABLE 6: MULTIVARIATE LOGISTIC REGRESSION ANALYSIS FOR PREDICTING THE FACTORS ASSOCIATED WITH TRADITIONAL PRACTICES USAGE.

Traditional practice user ~ Marital status + Size	e of Family + (Occupation + Religion	
Intercept	12.39	4.942 to 41.72	≤0.001
Religion (others)	0.027	0.005 to 0.095	≤0.001
Marital status (non-cohabiting)	573.5	60.12 to 931	≤0.001
Size of family (joint and extended)	0.0007	0.0006 to 0.004	≤0.001
Occupation (unemployed or	32.96	9.675 to 140.2	≤0.001
housewife)			
Traditional practice user ~ Education level + Oc	cupation + In	ncome	
Intercept	2.500	1.238 to 5.459	0.014
Education level (Primary and below)	0.205	0.088 to 0.499	≤0.001
Occupation (unemployed or	1.380	0.312 to 4.348	0.619 ns
housewife)			
Income (low)	2.533	0.666 to 12.47	0.199 ns
Traditional practice user ~ Parity + Regular die	t + Diet restrie	ctions	
Intercept	4.000	1.938 to 9.326	≤0.001
Parity (more than two)	0.989	0.275 to 4.662	0.988 ns
Regular diet (non-vegetarian)	0.171	0.079 to 0.343	≤0.001
Diet restrictions (no)	4.432	1.607 to 11.82	0.003

As shown in Table 6, first model was generated between herbs users vs. marital status and size of the family. It suggests that a respondent cohabiting with their partner while living in joint & extended family is more likely to use traditional practices (p-value ≤ 0.001).

The second model indicates that the respondent cohabiting with a partner, being employed, and living in a joint & extended family is more likely to use the traditional practice. This is supported by the statistical significance of the p-value \leq 0.001.

The next model predicts that herb users are likely other religious women, cohabiting with their partner, are employed, and living in joint & extended family (p-value \leq 0.001). Further, women with primary or below education level are more likely to use herbs (p-value \leq 0.001). Nevertheless, its association with employed high-income group women was found non-significant.

Further, mother following non-vegetarian or mixed diet with diet restrictions during pregnancy was found more likely to be a traditional practice user (p-value \leq 0.001). The prediction models, predict the associations with herbs user based on the variables provided and hence may provide deviations from bivariate predictors.

5.6 ETHNOBOTANICAL REPORT OF PLANT SPECIES USED BY RESPONDENTS

The numbers of plant species, their botanical details, and purpose and practice as responded by traditional practices user, N=333, are presented here. During the survey total of 62 plants were reported belonging to 60 genera and 41 plant families, as reported in Table 7. Table 7 indicates the list of plant names, their family, common name, local name (Gujarati language), part used, herbal formulation, the form of the herb used, its activity and mode of application with Relative Frequency of Citation (RFC^a).

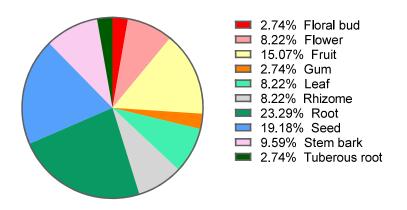
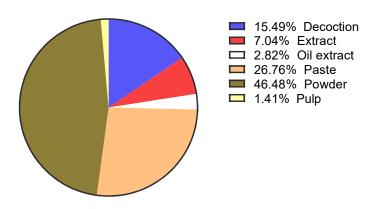


FIGURE 1. PIE-CHART SHOWING PART USED OF DIFFERENT PLANT SPECIES REPORTED.





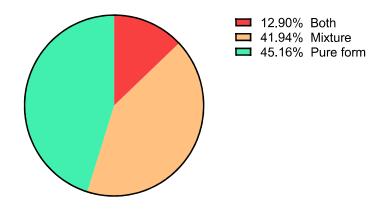


FIGURE 3. PIE-CHART FOR FORMS OF HERBS USED FOR PLANTS REPORTED.

The plants are found to belong to Fabaceae (17%) as the prominent family, followed by Zingiberaceae (10%) and Umbelliferae (10%) families. Malvaceae (7%) and Piperaceae (7%) were among the prominent families as per the details in table 7. Further, as shown in Figure 1, total 10 plant parts were found to be used, of the 62 taxa reported. Root (23.29%), seed (19.18%), and fruit (15.07%) were the highest, followed by stem bark (9.59%), rhizome (8.22%), Leaf (8.22%), and flower (8.22%).

Further, as represented in a pie chart in Figure 2, various types of herbal formulations are made from plants for applications. Major formulations reported are 46.48% powder, 26.76% paste, and 15.49% decoction, followed by extracts (7.04%) and pulp (1.41%). From the table it is evident that 90.32% of plants were used for internal applications, 8.06% for external, and 1.6% for both applications. As shown in Figure 3, 45.16% of plants were used in pure form, 41.94% as mixture, and 12.9% were used in both forms.

Relative Frequency of Citations (RFC^a) reports the number of times a particular herb is reported by respondents. The mean RFC^a was 0.26 ± 0.188 , indicating the drug's popularity. The highest RFC^a of 0.68 was reported for *Tribulus terrestris* L. and the lowest value for *Desmodium gangeticum* DC. and *Anthocephalus cadamba* Miq. as 0.1 value.

Scier	Scientific Name	Family	Common Name	Local Name	Parts used	Herbal formu- lation	Form of Herb	Activity	Appli- cation	RFC ^a
Abrus precat	Abrus precatorius L.	Fabaceae	Indian wild liquorice	Ratti	Seed	Powder	Pure form	Abortifacient, Uterine stimulant	Internal	0.08
Abutilo. (L.) Sw.	Abutilon indicum (L.) Sw.	Malvaceae	Country mallow	Balbij, Baladana	Seed	Powder	Pure form	Aphrodisiac, Diuretic, Haemorrhagic diseases	Internal	0.12
Acaci	Acacia nilotica L.	Mimosaceae	Babul	Bawal gunder	Gum	Powder	Both	Demulcent for uterine disorders, astringent	Internal	0.31
Achyrant aspera L.	Achyranthes aspera L.	Amaranthaceae	Prickly chaff Flower	Aghedo	Root, Flower	Paste	Pure form	Easy parturition, Abortifacient, emmenagogue, menorrhagia,	External	0.14
Acoru.	Acorus calamus L.	Araceae	The sweet flag	Vacha, Vaj, Ghodvach	Rhizome	Oil extract	Pure form	Hypotensive, sedative	External	0.14
<i>Alpinic</i> Willd.	Alpinia galanga Willd.	Zingiberaceae	Greater galangal	Panjad, Kulinjan	Rhizome	Paste	Pure form	Carminative	Internal	0.06
Amar	Amaranthus spinosus L.	Amaranthaceae	Spiny amaranth	Tandaljo	Seed, Root	Decoction	Pure form	Galactagogue, Menorrhoea, Maintenance of pregnancy	Internal	0.27
Anacyclus pyrethrum	Anacyclus pyrethrum DC.	Asteraceae	Pellitory	Akkalkaro, Akkalgaro	Root	Paste	Pure form	Amenorrhoea	Internal	0.15

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6	Anethum sowa	Apiaceae	Indian dil fruit	Suva	Leaf,	Paste	Pure	Carminative,	Internal	0.53
	Roxb. ex Flem.				Fruit	Decoction Powder	form	Galactagogue, Flatulence in children, Used as gripe water		
10	Anthocephalus cadamba Miq.	Rubiaceae	Kadam	Kadamb	Root, Flower, Fruit, Stem bark	Paste	Mixture	Vaginal diseases, anticatarrhal, Female genital tract disorders	Internal	0.01
11	Argemone mexicana L.	Papaveraceae	Prickly poppy	Darudi	Root	Paste	Pure form	Easy parturition	External	0.05
12	Aristolochia indica L.	Aristolochiaceae	lndian birthwort	Sarpsand, Naagdamani	Root	Decoction	Pure form	Easy parturition, Abortifacient, laxative	Internal	0.03
13	Asparagus adscendens Roxb.	Asparagaceae	White musli	Safed mushali	Root	Powder	Pure form	Galactagogue, diuretic	Internal	60.0
14	Asparagus racemosus Willd.	Liliaceae	Asparagus	Shatavari	Root	Powder	Pure form	Galactagogue, puerperal diseases, lactic disorders, haematuria, bleeding disorders	Internal	0.60
15	Asteracantha longifolia Nees.	Acanthaceae	Long leaved barleria	Ekharo	Seed	Paste	Mixture	Easy parturition	External	0.19

16	1	Meliaceae	Neem	Limdo	Root,	Paste	Both	Easy parturition,	Internal,	0.22
	indica A.Juss.				Leaf	Decoction		worms, Pearleringen of	External	
						UII extract		Kegularization of		
								menses, Blood		
								puritier,		
								contraceptive		
								(external), fever		
								during parturition		
17	Bambusa	Poaceae	Bamboo	Vaskapoor,	Leaf	Extract	Mixture	leucorrhoea,	Internal	0.10
	bambos Druce.		manna	Vanslochan				Carminative,		
								dysmenorrhoea,		
								emmenagogue		
18	Boerhaavia	Nyctaginaceae	Hogweed	Satodi	Root	Paste	Pure	Easy parturition,	External	0.02
	diffusa L.						form	abortifacient,		
								leucorrhoea		
19	Butea	Fabaceae	Butea gum	Kamarkas	Bark,	Powder	Pure	Haemorrhages,	Internal	0.09
	monosperma				Flower	Decoction	form	Menstrual		
	(Lam) Kuntze							irregularities,		
								Emmenagogue,		
								given to parturient		
20	Calotropis	Asclepiadaceae	Giant	Akado	Flower	Paste	Pure	Reduce pain	Internal	0.14
	gigantea (L.)		milkweed				form	postpartum, alter		
	W.T.Aiton							menstruation		
21	Careya arborea	Lecythidaceae	Kumbi	Vapumbha,	Flower	Extract	Pure	Galactagogue, Given	Internal	0.29
	Roxb.			Kumbhi			form	to parturient		
22	Coriandrum	Umbelliferae	Coriander	Dhana	Fruit	Decoction	Pure	Carminative	Internal	0.31
	sativum L.		fruit				form			
23	Curculigo	Amaryllidaceae	Golden eye	Kali musli,	Rhizome	Extract	Pure	Restorative tonic	Internal	0.26
	orchioides		grass	kalirnusali			form	after childbirth		
	Gaertn.									
24	Curcuma longa	Zingiberaceae	Turmeric	Haldar	Rhizome	Powder	Pure	Anti-inflammatory,	Internal	0.49
	Ŀ						torm	Antioxidant propertv		
								1		

25	Cydonia oblonga Mill.	Rosaceae	Quince fruit	Bihidana, Bedaana	Seed	Powder	Pure form	Soothing	Internal	0.12
26	Datura metel auct.	Solanaceae	Thornapple	Dhatura	Leaf	Paste	Mixture	excess menses, easy parturition, pre- anaesthetic	Internal	0.11
27	Daucus carota L.	Umbelliferae	Carot	Gajar bij	Seed	Extract	Pure form	Abortifacient, emmenagogue, menopause hot flushes	Internal	0.03
28	Desmodium gangeticum DC.	Fabaceae	Salparni	Samervo	Root, Leaves	Paste	Pure form	Abortifacient, anticatarrhal, emmenagogue, galactagogue, Haemorrhage, lumbago	Internal	0.01
29	<i>Eletteria</i> cardamomum (L.) Maton	Zingiberaceae	Cardamom	Elaichi	Fruit	Powder	Mixture	Carminative, Antiemetic	Internal	0.35
30	<i>Embelia ribes</i> Burm. F.	Myrsinaceae	Embelia	Vavding, Vayavadang	Fruit	Powder	Mixture	Galactagogue	Internal	0.26
31	Ficus glomerata Roxb.	Moraceae	Choraka patra	Umaro	Stem bark	Paste	Pure form	Postpartum recovery	Internal	0.07
32	Foeniculum vulgare Mill	Umbelliferae	Fannel fruit	Variyali	Fruit	Powder	Mixture	Emmenagogue, galactagogue, amenorrhoea, anti- inflammatory	Internal	0.54
33	Glycyrrhiza glabra L.	Fabaceae	Licorice	Jethimadh, Mulethi	Root	Powder	Mixture	Emmenagogue, Galactagogue, Gestational sugar control	Internal	0.50

34	Gossypium herbaceum L.	Malvaceae	Asiatic cotton	Kapas	Root	Decoction	Mixture	Emmenagogue, abortifacient, galactagogue, postpartum haemorrhage	Internal	0.25
35	Lepidium sativum L.	Brassicaceae	Chandrashula, Haalim	Asaliyo, Aseriya, Halim	Seed	Powder	Mixture	Easy parturition, Galactagogue, emmenagogue	Internal	0.56
36	Linum usitatissimum	Linaceae	Linseed	Alsi	Seed	Powder	Pure form	Laxative, Nutraceutical	Internal	0.42
37	Mesua ferrea L.	Guttifereae	Cobras saffron	Nagkesar	Floral bud	Powder	Mixture	Haemostatic for uterine bleeding	Internal	0.14
38	Mimusops elengi L.	Sapotaceae	Spanish cerry	Borsalli	Flower, Stem bark	Paste	Mixture	leucorrhoea, improves women fertility,	Internal	0.02
39	Mirabilis jalapa L.	Nyctaginaceae	Four-o'clock plant	Trisandhi	Leaf	Paste		Uterine discharge		0.12
40	<i>Mucuna pruriens</i> Baker.	Fabaceae	Cowhage	Kaucha	Seed	Powder	Mixture	Leucorrhoea, vaginal laxity	Internal	0.29
41	Myristica fragrans Houtt.	Myristicaceae	Nutmeg	Jaiphala, Jayfar	Seed	Powder Paste	Mixture	Antiemetic, Flatulency, and diarrhoea for child,	Internal	0.54
42	Nelumbo nucifera Gaertn.	Nymphaeaceae	Sacred lotus	kamal gatta, kamal kakdi	Seed, Rhizome	Paste	Mixture	Haemostatic, Menorrhagia, Rhizome given to new born for diarrhoea	Internal	0.20
43	Pandanus facicularis L.	Pandanaceae	Screw pine	Ketki	Root	Extract	Mixture	leucorrhoea, amenorrhoea	Internal	0.29

0.41	0.43	0.40	0.63	0.36	0.40	0.21	0.0	0.03	0.22
Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
Sedative, analgesic	Laxative, Cooling, Nutraceutical	tonic after childbirth	General tonic, hematinic, emmenagogue, galactagogue	Carminative, Gastro- intestinal stimulant, flatulence	Galactagogue	leucorrhoea, amenorrhoea, uterine tonic, menorrhagia, dysmenorrhea	Leucorrhoea, uterine tonic	Uterine tonic	Uterine disorders, vaginal diseases, Menstrual disorders, Menorrhagia, leucorrhoea, spasmogenic
Mixture	Pure form	Mixture	Both	Both	Pure form	Mixture	Mixture	Mixture	Mixture
Paste	Pulp	Powder	Powder	Powder	Powder	Decoction	Powder	Powder	Powder
Seed	Fruit	Fruit	Root	Seed	Tuberou s root	Stem bark	Root	Tuberou s root	Stem bark
Khaskhas	Khajur	lindipeepar, Pipali	Pipali mool, Ganthoda	Kala mari	Vidarikand, Bhonykoru	Ashok	Bala	Chopcheenee	Lodhar, Lodhra
Poppy seeds	Date palm	Long pepper	Piper root	Black pepper	Indian kudju	Ashoka	Country mallow	China root	Symplocos bark
Papaveraceae	Arecaceae	Piperaceae	Piperaceae	Piperaceae	Fabaceae	Caesalpiniaceae	Malvaceae	Liliaceae	Symplocaceae
Papaver somniferum L.	Phoenix dactylifera L.	Piper longum L.	Piper longum L.	Piper nigrum L.	Pueraria tuberosa DC.	<i>Saraca asoca</i> (Roxb.) DeWilde.	Sida cordifolia L.	Smilax china L.	<i>Symplocos racemosa</i> Roxb.
44	45	46	47	48	49	50	51	52	53

0.09	0.24	0.39	0.68	0.63	0.22	0.49
Internal	Internal	Internal	Internal	Internal	Internal	Internal
Carminative, antispasmodic	excess menses, herpes, and leukoderma	Carminative, antispasmodic, gripe water for children, flatulence	Emmenagogue, used for uterine disorders, Improves fertility in female	Flatulence, Galactagogue, Uterine tonic	Excess vaginal discharge, abortifacient	Anti-inflammatory, Antioxidant, diuretic, sedative, galactagogue
Both	Pure form	Mixture	Mixture	Both	Mixture	Mixture
Decoction	Powder	Decoction Powder	Powder	Powder	Powder	Powder
Floral bud	Stem bark	Fruit	Fruit	Seed	fruit	Root
Laving	Arjun	Ajwain, Ajmo	Gokharu	Methi	Nirgundi, Nagodbiya, Harenu, Renuka	Ashwagandha, Aasandh
Clove	Arjun terminalia	Bishop's weed	Caltrops fruit	Fenugreek	Five leaved chaste tree	Wintercherry
Myrtaceae	Combretaceae	Umbelliferae	Zygophyllaceae	Fabaceae	Verbenaceae	Solanaceae
<i>Syzygium</i> <i>aromaticum</i> (L.) Merr. And L.M. Perry	Terminalia arjuna (Roxb.) W. & A.	Trachyspermum ammi (L.) Sprague ex Turril	Tribulus terrestris L.	Trigonella foenum- graecum L.	Vitex negundo L.	Withania somnifera Dunal.
54	55	56	57	58	59	60

61	Zingiber officinale Roxb.	Zingiberaceae	Ginger	Sunth	Rhizome	Paste Decoction Powder	Both	Antiemetic, Antispasmodic, anti- inflammatory	Internal	0.56
62	Balsamodendron myrrha Nees.	Burseraceae	None	Hiraabola	gum- resin	Powder	Both	Painful and irregular menstruation, blood purifier, emmenagogue	Internal	0.38
TABLE	TABLE 8. LIST OF TRADITIONAL PRACTICES DOCUMENTED DURING THE SURVEY.	ONAL PRACTICES	DOCUMENTED	DURING THE SURV	/EY.					
SR NO.	PERIOD OF USAGE		TYPE OF PRACTICE	BRIEF DESCRIPTION	NOL					
-	Postpartum	Raab		A slurry is cooked by adding Ghee, Jaggery, whe The preparation is given a fresh to new mothers.	ed by addin is given a fi	g Ghee, Jag resh to new	gery, whe mothers.	A slurry is cooked by adding Ghee, Jaggery, wheat flour, cardamom, and dry fruits. The preparation is given a fresh to new mothers.	nd dry frui	ts.
2	Postpartum	Methi	Methi laddu	A flour balls ar Fenugreek powo balls are prepare	are prepared wder, poppy ared. Optiona	d by cookir seeds, carda ally, grated c	ng wheat amom, an coconut ar	A flour balls are prepared by cooking wheat flour, ghee and jaggery. To that Fenugreek powder, poppy seeds, cardamom, and dry fruits are added and handful balls are prepared. Optionally, grated coconut and udad flour is added.	ery. To th and hand	ful
ŝ	Postpartum	Udad pak	pak	A preparation ganthoda, sunth	of black g and bawal	ram flour-b gundar and	ased deli dry fruits	A preparation of black gram flour-based delicacy cooked with ghee, jaggery, ganthoda, sunth and bawal gundar and dry fruits is known as udad pak.	iee, jagge	, L
4	Postpartum	Dry fr	Dry fruits laddu	A wheat flour-based preparation of sweet with ghee, su poppy seeds and dry fruits. Preparation is made as balls.	ased prepa d dry fruits.	ration of sw Preparation	veet with n is made	A wheat flour-based preparation of sweet with ghee, sugar, cardamom, ganthoda, poppy seeds and dry fruits. Preparation is made as balls.	n, ganthoo	la,

ъ	Antenatal	Ukaala	A water-based decoction is prepared by boiling Nirgundi, ardusi and wood apple is
			given twice a day.
9	Postpartum	Gundar pak	A sweet dish prepared with sunth, ganthoda, bawal gundar and dry fruits based on wheat flour is known as gundar pak.
	Postpartum	Suwadana Pani	A water-based decoction by adding ghee, jaggery and suwadana (dill).
∞	Antenatal and Postpartum	Ukaala	A water decoction is prepared with ginger and tulsi leaves.
თ	Postpartum	Ukaala	A water decoction made with tea, ginger, clove and black pepper. Consumed fresh.
10	Postpartum	Suji laddu	A suji (semolina) based sweet dish prepared with ghee, jaggery and dry fruits.
11	Postpartum	Batrisu vasanu /katlu	A sweet dish prepared with wheat flour, ghee, jaggery and freshly grounded around 32 herbs, known as batrisu vasanu powder.
12	Antenatal and postpartum	Till laddu	A jaggery balls prepared by melting the jaggery added with till (sesame seeds).
13	Antenatal and postpartum	Mukhvas	A mixture of dried roasted seeds of variyali (fennel), till (sesame), suwadana (dill) and alsi (flaxseeds).
14	Postpartum	Sukhadi	A sweet prepared with wheat flour or gram flour, ghee, jaggery and dry fruits.
15	Postpartum	Hirabola	The oleo-gum-resin is mixed with sweet dish and given for recovery of mother.

postpartum17Postpartum18Postpartum19Postpartum20Parturition21Parturition23Parturition23Parturition	Ragi dish Kheer Masanumas	gram flour. Ragi flour, sattu flour, sugar and cardamom mixed and prepared as a sweet dish. A milk based sweet prepared with haleem (asariyo) seeds and added sugar. A commercial mixture available with added extracts of yesthimadhu, sagbean, ksheerkakoli.
	lan mun	Ragi flour, sattu flour, sugar and cardamom mixed and prepared as a sweet dish. A milk based sweet prepared with haleem (asariyo) seeds and added sugar. A commercial mixture available with added extracts of yesthimadhu, sagbean, ksheerkakoli.
	Inm	A milk based sweet prepared with haleem (asariyo) seeds and added sugar. A commercial mixture available with added extracts of yesthimadhu, sagbean, ksheerkakoli.
		A commercial mixture available with added extracts of yesthimadhu, sagbean, ksheerkakoli.
	Castor oil	Pure castor oil is taken during last week of gestation to ease parturition.
	External application	Plants namely neem and kariyatu are tied on to women for ease of parturition
	Internal application	Aghedo root or satodi root paste is inserted in the birth canal to ease parturition.
	Sweet delicacy	Powdered taj, asariyo and akkalkaro is cooked with wheat flour, ghee and jaggery.
24 Postpartum	Internal application	Umaro tree bark paste is consumed to relieve pain

There were 10 plants with RFC values above 0.5, like, *Glycyrrhiza glabra* L., *Anethum sowa* Roxb. ex Flem., *Myristica fragrans* Houtt., *Foeniculum vulgare* Mill, *Zingiber officinale* Roxb., *Lepidium sativum* L., *Asparagus racemosus* Willd., *Piper longum* L., *Trigonella foenum-graecum* L. These plants were presented with various purposes as shown in the Table 7. The herbs used were galactagogue, emmenagogue, menorrhagia, dysmenorrhea, general tonic, uterine tonic, abortifacient, easy parturition, antiemetic, and carminative. The purposes listed are as reported by the participants during the study.

Table 8 shows the list of traditional and herbal practices documented from the survey population. As shown in Table 8, total 24 different practices were reported during study. Most of the practices were related to postpartum 19/24 (79.16%) period followed by parturition related and antenatal practices. The types of practices are distinct from each other; however, many are of preparing delicacy dishes served to new mothers. Decoction based on water (ukaala) is also reported by many participants. Certain practices are about consuming the drug, and a few are for external applications on the body. The present study helped in documenting these traditional practices popularly used in the study sample.