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Ethnobiological survey of traditional medicine practice for Women's health in Oyo State

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A comprehensive survey aimed at documenting traditional medicinal practices was carried out between November 2008 and January 2012 in 16 different locations across Oyo State. This article focuses on the traditional medicinal practices used for the treatment of human circulatory and nervous diseases. Semi-structured questionnaires and open-ended informal interviews were administered during series of repeated visits to a total of 31 respondents. A total of 62 traditional medicinal practices were described for the management of a wide variety of women's health issues A total of 67 plants, 9 animals and 16 other ingredients were described as being used in the preparations of the described traditional remedies. The 67 plants spread across 42 plant families, with Poaceae and Caesalpiniaceae both having the highest number (5) of species representatives. It is expected that the documentation of medicinal plant knowledge will further promote bioprospecting and pharmacological research.

Keyword: Women's health, fibroid, breast cancer, contraceptives, traditional medicinal practices, Oyo state, Nigeria.

1. Introduction

The African continent has a long history with the use of plants for medicinal purposes. In some African countries, up to 90% of the population relies on medicinal plants as a source of drugs ^[1, 2]. Diallo and Paulsen ^[3] reported that 80% of the population in Mali uses traditional medicine as their only type of medicine. In Nigeria, 1985 WHO survey estimated that up to 75% of the population patronizes traditional medicine ^[4]. The yearly herbal medicine trade fair in Nigeria and increasing publicity and patronage this attracts, irrespective of the social, educative or religious background of the people, are indicative of acceptance of herbal medical practice ^[5].

Stepp ^[6] defined Ethnobiology as "the scientific and humanistic study of the complex set of relationships of the biota to present and past human societies." Ethnomedicine, on the other hand, refers to the study of traditional medicine practice which is concerned with the cultural interpretation of health, diseases and illness and also addresses the health-seeking process and healing practices. The practice of ethnomedicine is a complex multi-disciplinary system, comprising the use of plants and animals, spirituality and the natural environment and has been the source of healing for people for millennia^[7].

However. rich and in-depth indigenous knowledge traditional medicine of and therapeutic potentials of plants and animals lies with the aged, the herbalists, herb sellers, herb collectors, hunters and other groups of people who have constant contact with nature, especially in rural areas. This knowledge is orally passed from generation to generation, hence with continuous disruption of cultural set-ups and younger people showing disinterest in learning local languages, traditional knowledge is on the verge of disappearance. The importance of this body of knowledge is best explained by the

African proverb, 'when a knowledgeable old person dies, a whole library disappears' ^[8]. Abebe^[9] noted that the ethnobiological information of medicinal plants and animals are fast disappearing, and this is more pronounced in developing countries. Worse still, it was also noted that vast knowledge on traditional uses of plants is not fully documented and less than 1% of indigenous cultures have been surveyed for their knowledge of medicinal plants and other [10, 11] products in the world natural Documentation of traditional therapeutic knowhow could lead to the discovery of new drugs as well as contribute to the conservation, sustainable management and use of plant resources; therefore, it is very crucial that ethnobiological surveys be carried out for the preservation of this indigenous knowledge. However, knowledge on the use of medicinal plants is enormous but if this is not rapidly researched and recorded, indications is that it will be lost with succeeding generations^[2].

In order to preserve traditional medicinal knowledge, it is necessary that inventories of plants with therapeutic value are carried out, and the knowledge related to their use documented in systematic studies. These studies can have other values too for society besides conserving traditional knowledge, for they can help to identify plants with market potential that can generate incomes for local communities. Furthermore, ethnobiological surveys provide the rationale for selection and scientific investigation of medicinal plants and animals, since some of these indigenous remedies have successfully been used by significant numbers of people over extended periods of time ^[12]. Therefore, this study was conducted to compile the traditional medicine practices used in Oyo State, Nigeria. The focus of this paper was to document the traditional medicinal practices for general women's health as practiced in Oyo State, Nigeria.

2. Methodology

2.1 Study Area

Oyo state was established in 1976 from the defunct Western Region, with the total estimated population of 6,617,720 people ^[13] mainly Yoruba people. The land area is 28,454km², ranking 14th in the country. The landscape consists of old hard rocks and dome shaped hills, which rise gently from about 500 meters in the southern part and reaching a height of about 1,219 metre above sea level in the northern part. The indigenes are mainly Oyo, Ibadan, Oke-Ogun and Ibarapa peoples, and notable cities include Ibadan (the State capital), Oyo, Ogbomosho, Saki, Okeho, Iseyin, Kishi, Eruwa and many others. The state is divided into thirty-three Local Government areas. Greater parts of the state fall within Guinea savanna, while Ibadan is classified as a derived savannah. The southern fringes of the state are still being dominated by tracts of rainforests. Oyo state is located in Southwest region of Nigeria (Figures 1 and 2) between latitude 8°00 N and longitude 4°00 E. The main indigenous occupation of the people is farming, while arts and crafts are popular in Oyo town.



Fig 1: Map of Nigeria showing Oyo State

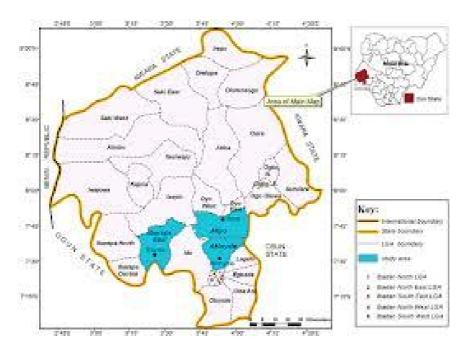


Fig 2: Map of Oyo State, Nigeria

The areas visited during this study include Saki (Saki West LGA), Sepeteri (Saki East LGA), Apata (Ido LGA), Oyo (Atiba LGA), Ikoyi (Orire LGA), Ayetoro (Kajola LGA), Karimu village, Abule Tapa (Iwajowa LGA), Idi-Ayunre, Busogboro (Oluyole), Iseyin (Iseyin LGA), Fiditi (Afijio LGA), Ebedi and Modeke (Oorelope LGA), Ayepe (Oriire LGA), Bode (Ibadan South East LGA) and Idere (Ibarapa Central LGA).

2.2. Ethnobiological Survey

The main data sources consisted of a series of semi - structured and open-ended questionnaires as well as informal interviews administered on local herb sellers, hunters, herbalists and other groups of people rich in traditional medicine knowledge. The administration of questionnaires and informal interviews were done for three years, between November 2008 and January 2012. This involved repeated visits to the selected respondents in the areas visited. The questionnaire administration and interviews were done in their native language (Yoruba language), while the information gathered was sorted, the local names of plants mentioned were interpreted to their respective biological names using the

publication by Gbile and Soladoye^[14] and other relevant previously published research papers.

3. Results

The result is a compendium of traditional medicine practice in Oyo state compiled over a period of three years, with focus on women's health.

3.1 Respondents' Identity

Table 1 indicated that a total of 31 people were interviewed for traditional medicine practice in Ovo state, 13 of which were males while the remaining 18 were females. All the herb sellers interviewed were women and in addition, majority (21) of the respondents was within the age range of 40 and 50 (Table 1). The occupations of the respondents include a Government civil service retiree, 16 herb sellers, 10 herbalists, 2 herb collectors and a hunter (Table 1). Only 1 of the respondents was a University graduate, majority (18) were illiterates, while the rest were primary school leaver or drop-outs and secondary school leavers (Table 1). Furthermore all, except the retired civil servant, claimed that they inherited their vocation

from their parents, and possibly their noted that all the respondents were Yoruba ethnomedicinal knowledge as well. It should be speaking people of Oyo state.

S/N	Demographic information	Frequency (n=31)	Percentage
1	Gender - Male - Female	13 18	41.9 58.1
2	Age category (years) - Below 30 - 31-40 - 41-50 - 51-60 - 61-70 - Above 70	0 0 21 5 2 3	0 0 67.7 16.1 6.5 9.7
3	Highest level of education - No formal - Primary - Secondary - Diploma - Degree	18 10 2 0 1	58.1 32.3 6.4 0 3.2
4	Main Occupation - Hunter - Civil servant/retired - Herb seller - Herb collector - Herbalist/Priest/Priestess	1 2 16 2 10	3.2 6.4 51.6 6.4 32.3

Table 1: Source of Ethnomedicinal Information

3.2 Ethnobiological Survey

A total of 62 traditional medicinal practices were described for the treatment of women's related diseased conditions in this study (Table 2). These conditions include breast cancer, blockage of womb or fallopian tube, vulva problems, vaginal discharge, ovarian cysts, menstruation problems and fibroid (Table 2). Furthermore, traditional medicinal practices were also described for antenatal care, post-natal care, delayed child birth, hair breakage, lactation in nursing mothers, contraceptives and abortifacients (Table 2). In addition, 67 plants (Table 3), 9 animals (Table 4) and 16 other ingredients (Table 5) were described as being used in the preparations of traditional remedies for the treatment of various women's health conditions in Oyo State. The 67 plants spread across 42 plant families, with Poaceae and Caesalpiniaceae both having the highest number (5) of species representatives, followed by Papilionaceae (4) and Euphorbiaceae (4). It

should be noted that one of the plants mentioned in this study is yet to be identified. From Table 2, it could be observed that traditional medicinal remedies for menstrual problems are the main women's reproductive challenges in the survey, followed by blockage of the womb.

The mode of administration of the herbal treatments varied greatly, ranging from oral administration (drinking, licking, chewing and eating), topical application, bathing, insertion, washing, and rubbing (Table 2). Similarly, the method of preparation varied widely, which include infusion. decoction. maceration. squeezing, burning, boiling (in water), soaking, grinding/pounding, preparation as food or pepper soup, drying and pulverization into powder and many other variant methods (Table 2). However oral administration appears to be the most widely used method for herbal medicine administration (Table 2).

S/N	Disease	Plants, parts used, preparation and dosage
1	Hair breakage	Mix honey with olive oil, warm it and treat your hair with it, after fifteen
1		minutes, wash it with warm water. Repeat it once a month to stop hair breakage
2	Abortifacient	Grind Jatropha curcas seeds and soak in local gin for twenty-four hours and
_	110 01 01 01 01 01 0	take it orally as abortifacient
		Grind plenty of Aframomum melegueta rhizomes and pour in Cocos nucifera
	David and III	fruit water. Use three spoons three times per day after meal
3	Breast milk production	Prepare <i>Kigelia africana</i> fruit as herbal to wash the breast for milk production
	production	and breast enlargement The woman should cook Ocimum gratissimum leaves as soup and eat it often to
		increase lactation
		Boil Argemone mexicana leaves, Saccharum officinale stem, small unripe Musa
		nana fruit, Xylopia aethiopica seeds, small palm oil with Citrus aurantifolia
		fruit juice for one hour, drink one glass cup three times daily and use it to wash
		the breast always.
		Cut the flowering part of Ocimum gratissimum, grind and mix the paste with
4	Breast cancer	native soap. Bath nipples downwards with fresh spring water and the herbal
		mixture
		Grind Mezoneuron behthamianum leaves, Cola acuminata fruits, Garcinia kola
		fruits and mix with native soap. Bathe the breast with the herbal mixture and
		fresh spring water and with new sponge for four days. Ensure that this
		preparation is used for breast cancer that has never been operated on.
		Blend <i>Pterocarpus osun</i> bark, <i>Jatropha curcas</i> leaf juice with native soap together; wash your private part with it three times daily for one month to clear
		fallopian tube blockage
		Squeeze <i>Momordica charantia</i> leaves and drink to clear fallopian tube blockage
		Squeeze <i>Physalis angulata</i> leaves with water. The woman will drink a glass cup
		each day for five days starting from the day she sees her menses to correct
		shortage of menstrual flow defect
		Blend carmine bee eater's feather, parrot tail, <i>Sorghum bicolor</i> grain chaff,
		small salt, <i>Bixa orellana</i> leaves, <i>Gossypium hirsutum</i> leaves, <i>Staudtia stipitata</i>
		bark and <i>Morinda lucida</i> root together. Take one spoon with hot pap every
		morning for one month to correct shortage of menstrual flow defect
		Burn Citrullus lanatus fruit on fire for twenty minutes, squeeze the juice, and
		add Ananas comosus fruit juice, small Citrus aurantifolia fruit juice, pure honey
		and little potash. Take two spoons every morning to correct shortage of
		menstrual flow defect
	Women's	Burn the head of squirrel, one Aframomum melegueta fruit, and some quantity
5	reproductive	of Nymphaea lotus leaves together. Take one spoon with cold pap morning and
	problems	night to clear all womb blockages
		Burn <i>Secamone afzelii</i> leaves, <i>Pupalia lappacea</i> leaves, <i>Uraria picta</i> leaves, one <i>Aframomum melegueta</i> rhizome together. Take one spoon with cold pap
		morning and night for three months to clear all womb blockages
		Get 12 fruits of <i>Momordica charantia</i> , itana liborotan, <i>Plumbago zeylanica</i>
		root, potash are all grinded and eaten together with catfish on the morning of the
		day menstrual flow ought to start to treat black blood menstrual discharge
		Gongronema latifolium root and duck's gizzard are used to prepare a meal
		which is eaten on the day vaginal discharge was observed, to stop vaginal
		discharge
		Bathe with water mixed with leaf juice of <i>Pterocarpus osun</i> and <i>Ficus</i>
		exasperata on the day vaginal discharge was observed as medication to stop
		vaginal discharge
		Get carmine bee eater's feather, parrot's crown, Sorghum bicolour grain chaff,
		Bixa orellana leaves, Gossypium hirsutum leaves, Harungana
		madagascariensis root, Morinda lucida root, Lawsonia inermis root are all

Table 2: Ethnobiological	survey of Wome	n's reproductive	e health in Oyo State	e, Nigeria
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		grinded together. The woman takes it with hot pap every morning as medication
		to stop irregular menstruation
		Prepare Allium sativum rhizome as pepper soup and eat it to control
		menstruation and stop irregular menstruation
		Boil Asparagus africana leaves, Canavalia ensiformis root, Piper guineense
		root, <i>Senna alata</i> leaves and seven <i>Xylopia aethiopica</i> seeds with water. Drink
		one small cup seven days before menstrual day to treat menstrual pains
		Wash <i>Quassia undulata</i> root and cut into pieces, soak in water. Drink a glass
		cup three times daily starting from three days prior to your menstrual day and
		stop it a day to the menstrual day to treat menstrual pains
		Grind <i>Ficus exasperata</i> leaves with small sugar and add pure honey to it. Let
		the woman lick it all times to treat vaginal problem after intercourse
		Boil Annona senegalensis leaves with Citrus aurantifolia fruit juice for fifteen
		minutes. Drink one glass cup every night for three weeks. Drink one glass cup
		every night for three weeks to treat vulva problems
		Blend plenty of <i>Gossypium hirsutum</i> leaves with seven immature <i>Gossypium</i>
		<i>hirsutum</i> seeds on fire for fifty minutes. Take one glass cup three times daily
		after meal to treat ovarian cyst
		The maceration of <i>Basella alba</i> plant is taken twice daily to treat infertility in
		women
		Mix <i>Pterocarpus osun</i> and <i>Jatropha curcas</i> leaves with native soap. The
		woman to apply/wash her genitals with it everyday to treat excessive menstrual
		flow
		Squeeze and extract leaf juice of <i>Jatropha curcas</i> , mix with local hen egg.
		Drink the mixture once daily to treat excessive menstrual flow
		Cook Aframomum melegueta fruit pericarp peel, Kigelia africana root, Senna
		<i>fistula</i> root, <i>Piper guineense</i> fruit and little potash for forty-five mins. Woman
		to take half a glass cup twice daily to treat excessive menstrual flow
		Squeeze a large quantity of <i>Momordica charantia</i> leaves in water and take a
		glass cup twice daily to treat infertility in women
		Eat <i>Citrullus lanatus</i> fruits frequently to treat haemorrhage in women
		Root and leaves of Senna podocarpa, Senna alata, Allium ascalonicum and
		potash are put together into a container, and hot water poured on the mixture.
		The recipe is left till the next day. A glass cup of the herbal mixture is taken
		every morning before break fast for three days to treat leucorrhoea.
		Grind many Aframomum melegueta rhizomes and soak it inside gin. Take one
	D 1	spoon three times daily before meal to treat postnatal pains.
6	Postnatal care	Apply the maceration of <i>Ageratum conyzoides</i> leaves to skin to treat skin
		diseases in women after child birth
		Squeeze fresh Alchornia laxiflora leaves with water and filter it. Add small salt
		and little potash. Place it inside dew till dawn and drink it before every
		breakfast to act as contraceptive
	Equil-Discusion /	Peel male Carica papaya root downward, add sizeable Xylopia aethiopica
7	Family Planning/	fruits, little palm oil and cook with catfish and eat it as contraceptive. To restore
	contraceptive	fertility, carry out the above using female Carica papaya.
		The woman to ingest <i>Ricinus communis</i> seeds and <i>Mucuna sloanei</i> seeds for as
		long as she wants the contraception. To restore fertility, stop eating the seeds
		and take palm oil for two weeks.
		Grind Secamone afzelii leaves inside a bottle of Citrus aurantifolia fruit juice.
		Add a cowrie with no hole and little potash. Soak it for one day. Take two
		spoons once a week to treat fibroid
8	Fibroid treatment	Drop ten cowries in a bottle of Citrus aurantifolia fruit juice and drink half a
0	rioroid deatment	cup to dissolve fibroid
		Boil two hundred and eighty-eight leaves of Aspilia africana and drink to treat
		fibroid
		Prepare a concoction of Senna sieberiana roots, Allium ascalonicum roots,

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10 Ante-natal care Collect Sida acuta leaves, Oxythenanthera abyschica leaves with its salk, find sand (sieved) all soaked with schnapps (distilleries) for two days, then sieve the water and take half a stainless cup portion every night before going to bed to reat fibroid 9 Breast treatment (somu roro) Get Euphorbia convolvuloides leaves, Saccharum officinale sem, unripe Msa mana, Xytopia aethiopica seeds and pain oil, all boiled in Citrus aurantifolia finit juice. To be taken every day and part of it used to bathe the breast Zea mays silk and bottle of prenney are boiled with water. The pregnant woman to take from it little by little to treat elephantiasis in pregnant women 2 Coek Garcinia kola nuts occasionally to treat nausea in pregnant women 3 Chew Garcinia kola nuts occasionally to treat nausea in pregnant women 4 Coek she-goat meat with Triclista subcordat root, Xytopia quintaris fluits and Piper guineense fruit as stew for the woman to eat to sustain the pregnancy. 9 Biol one fresh local hen egg, grind Cyathula prostrata leaves, add stal and palm oil and cook for the minuts. The woman will pray for pregnaney sustenance and then cat it in the morning before talking to anyone to sustain the pregnancy. 10 Ante-natal care Grind Hybanthus enneaspermus leaves, put Piper guineense are all grinded together and repared to a stew with catfish. The woman will are if on the day she sees blood from the guinense fruit, Parkia biglobosa (locus theans) and the cat the situation in which the foetus did not the systex sees blood from the guine second together and rup it on the lower and docok for the woman to eat to sus			
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11 water and take half a stainless cup portion every night before going to bed to treat fibroid 9 Breast treatment (somu roro) Get Euphorbia convolvuloides leaves, Saccharum officinale sem, umipe Musa nana, Xylopia aethiopica seeds and pain oil, all boiled in Citrus aurantifolia fruit juice. To be taken every day and part of it used to bathe the breast nana, Xylopia aethiopica seeds and pain oil, all boiled in Citrus aurantifolia fruit juice. To be taken every day and part of it used to bathe the breast woman to take from it little by little to treat dephantasis in pregnant woman. Squeeze and take the leaf juice of Carica papay to treat nausea in pregnant woman to take from it little by little to treat dephantasis in pregnant woman. Chew Garcinia kola nuts occasionally to treat nausea in pregnant woman to cast of south every and then east it in the morning before talking to anyone to sustain the pregnancy. Boil one fresh local hen egg, grind Cyathula prostrata leaves, add salt and pain oil and cook for five minutes. The woman will pay for pregnancy sustenance and then eat it in the morning before talking to anyone to sustain the pregnancy. Get Toanjogbe root, <i>Parkia biglobosa</i> (locust beans) and <i>Piper guineense</i> are all grinded logether and prepared to a stew with cattish. The woman will take it on the day she sees blood from her genitals to sustain the pregnancy. Crind <i>Biphanhus emergenermus</i> leaves, put <i>Piper guineense</i> fruit, <i>Parkia biglobosa</i> (locust beans) and one cat fish and cook for the woman to eat to sustain the pregnant woman to revent miscarriage. Dry and grind <i>Oarium gratissium</i> leaves and <i>Aframomum melegueta</i> sees. <i>Deinbollia pinnata</i> leaves, electric fish together very well and put inside Digitaria debitis leaves. Tie it up in a local kitchen til the 7th day, the woman will flax for the solution in which the foctus din ot change position. Boil <i>Corchorus olitorius</i> leaves, squeeze			sand (sieved) all soaked with schnapps (distilleries) for two days, then sieve the
10 Ante-natal care Chew twnty-five uniprate Kernel nut for at least eight weeks to treat fibroid Get Euphorbia convolvaloides leaves, Saccharam officinale stem, unipe Musa nana, Xylopia aethiopica seeds and palm oil, all boiled in Citrus auvantifoldu firuit juice. To be taken every day and part of it used to bathe the breast Zea mays silk and bottle of pure honey are boiled with water. The pregnant women to take from it little by little to treat elephaniasis in pregnant women Squeeze and take the leaf juice of Carica papaya to treat nausea in pregnant women 10 Ante-natal care Chew Garcinia kola nuts occasionally to treat nausea in pregnancy Boil one fresh local hen egg, grind Cyathula prostrata leaves, add salt and palm oil and cook for five minutes. The woman weil take it on the day she sees blood from her genitals to sustain the pregnancy Boil one fresh local hen egg, grind Cyathula prostrata leaves, add salt and palm oil and cook for five minutes. The woman will take it on the day she sees blood from her genitals to sustain the pregnancy Get Toanjogbe root, Parkia biglobasa (locus beans) and Piper guincense fruit grindel together and prepared to a stew with catfish. The woman will take it on the day she sees blood from her genitals to sustain the pregnancy Grind Hybanthus enneaspermus leaves, put Piper guincense fruit, Parkia biglobase (locus beans) and one cat fish and cook for the woman to e at to sustain the pregnancy Insert Ageratum conycoides leaves, put Piper guincense fruit, Warkia biglobase (locus theasy, electric fish together very well and put in iside Digitaria debilis leaves. Fie it up in a local kitchen till the 'Ada, the woman will start eating it bit by bit to treat the situation in which the foetus did not change position Boil Carchorus olitorius leaves, squeeze in cold water and give it to the woman to drink. Whille preparing it, don't call it 'weedu' (the local name			
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Get clay pot settlement, Jatropha curcas leaves and electric fish cooked			
together with <i>Piper guineense</i> fruit and palm oil Let the woman eat early in the			
esgenier (fini i per gemeente nate und pain on. Det inte (forman eut en i fin are			together with <i>Piper guineense</i> fruit and palm oil. Let the woman eat early in the

	morning to ensure safe delivery
Γ	Squeeze plenty of Corchorus olitorius leaves in water and sieve. Drink a glass
	cup of the extract at regular intervals during labour for quick delivery

Table 3: List of plants used for the treatment of women's health in Oyo State, Nigeria

S/N	Plant Name	Family	Local/Common name	Part used
1	Aframomum melegueta (Rosc.) K. Schum.	Zingiberaceae	Atare, alligator pepper	Fruit
2	Ageratum conyzoides L.	Asteraceae	Imi-esu, goat weed	Flower, leaf, leaf sap, whole plant
3	Alchornea laxiflora (Benth.) Pax & K. Hoffm	Euphorbiaceae	Ijan, pepe, three-veined bead string	Leaf
4	Allium ascalonicum L. Backer	Liliaceae	Alubosa elewe, Leafed onion, Shallot, wild onion	Bulb
5	Allium sativum L.	Liliaceae	Ayuu, garlic	Rhizome
6	Ananas comosus (Linn.) Merrill.	Bromeliaceae	Ope-oyinbo, pineapple	Fruit
7	Annona senegalensis Pers.	Annonaceae	Abo, African custard apple	Root, leaf
8	Argemone mexicana L.	Papaveraceae	Egele, egun arugbo, Mexican poppy	Leaf
9	Aspilia africana (Pers.) C.D Adams	Asteraceae	Yunyun, haemorrhage plant	Leaf
10	Basella alba L.	Basellaceae	Amunututu, Malabar Spinach	Leaf, whole plant
11	Bixa orellana Linn.	Bixaceae	Osunbuke, aje, Arnatto Seed, bar	
12	Canavalia ensiformis (L.) D.C	Papilionaceae	Sese-nla, popondo, sword bean	Root
13	<i>Carica papaya</i> Linn.	Caricaceae	Ibepe, pawpaw	Seed, sap, leaf, leaf extract, fruit
14	<i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai	Cucurbitaceae	Bara, water melon Fruit	
15	<i>Citrus aurantifolia</i> (Christm.) Swingle	Rutaceae	Osan wewe, Lime fruit Fruit, lea	
16	Cocos nucifera L.	Arecaceae	Agbon, coconut tree	Coconut water
17	Cola acuminata Schott. & Endl.	Sterculiaceae	Obi abata, Kola Fruit	
18	Corchorus olitorius L.	Tiliaceae	Ewedu, Jute	Leaf
19	Cyathula prostrata L.	Amaranthaceae	Sawerepepe, pasture weed	Leaf
20	Deinbollia pinnata Schum. & Thonn.	Sapindaceae	Ogiri, water willow Leaf	
21	Digitaria debilis (Desf.) Willd	Poaceae	Eeran, crabgrass Leaf	
22	Entandrophragma angolense (Welw.) C. DC	Meliaceae	Ijebo, Tiama Bark	
23	Euphorbia convolvuloides Hochst. ex Benth	Euphorbiaceae	Egele, ege-ile Leaf	
24	Ficus exasperata Vahl.	Moraceae	Ewe-ipin, sandpaper tree	Leaf
25	Garcinia kola Heckel	Guttiferae	Orogbo, Bitter kola	Root, bark, stem bark, root bark, seeds
26	Gongronema latifolium Benth.	Asclepiadaceae	Madunmaro, Utazi	Root, leaf
27	Gossypium hirsutum Linn.	Malvaceae	Owu, cotton plant	Leaf, seed

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28	Harungana madagascariensis	Hyperiaceae	Amuje, dragon's blood	Root, bark
29	Lam. ex Poir Hybanthus enneaspermus (L.)	Violaceae	Abiwere, Hybanthus,	
30	F.Muell Jatropha curcas L.	Euphorbiaceae	Lapalapa funfun, physic Leaf, seed.	
21	-	_	nut	Seed, root,
31	Kigelia africana (Lam.) Benth.	Bignoniaceae	Pandoro, Sausage tree	fruit, bark
32	Lawsonia inermis L.	Lythraceae	Laali, Henna	Root, leaf
33	Mezoneuron benthamianum (Baill.) Herend. & Zarucch	Caesalpiniaceae	Amuranju, senifiran	Leaf, root
34	Momordica charantia Linn.	Cucurbitaceae	Ejinrin-were, bitter gourd	Leaf, fruit, whole plant
35	Morinda lucida Benth.	Rubiaceae	Oruwo, brimstone tree	Leaf, root
36	Mucuna sloanei Fawcett & Rendle	Papilionaceae	Ina funfun, stinging bean	Fruit, seed, leaf
37	Musa nana J. de Loureiro	Musaceae	Ogede wewe, omimi, banana	Fruit, sap
38	Nymphaea lotus Linn.	Nymphaeaceae	Osibata, water lily	Leaf
39	Ocimum gratissimum L.	Lamiaceae	Efinrin, Basil	Leaf, scent
40	Oxytenanthera abyssinica (A. Rich) Munro	Poaceae	Oparun, bamboo	Leaf
41	Parkia biglobosa (Jacq.) R. Br.	Mimosaceae	Irugba, locust beans	Fruit/seed
42	Physalis angulata Linn	Solanaceae	Koropo, wild cape Leaf	
43	Piper guineense Schum & Thonn.	Piperaceae	Iyere, black pepper Fruit,	
44	Plumbago zeylanica L.	Plumbaginaceae	Nabiri, Inabiri, Ceylon leadwort Root	
45	Pterocarpus osun Craib.	Papilionoideae	Osun, Bloodwood	Bark, leaf
46	<i>Pupalia lappacea</i> (L.) Juss	Amaranthaceae	Emo agbo, Ram's bur	Leaf
47	<i>Quassia undulata</i> (Guill. & Perr.) F.Dietr.	Simaroubaceae	Oriji,	Root
48	Ricinus communis L.	Euphorbiaceae	Laa, Castorplant	Seed, seed oil
49	Saccharum officinarum L.	Poaceae	Ireke, sugarcane	Stem
50	<i>Secamone afzelii</i> (Schult.) K.Schum	Asclepiadaceae	Ailu, secamone Leaf	
51	Senna alata L. Roxburgh	Caesalpiniaceae	Asunwon oyinbo, candle bush	
52	Senna fistula L.	Caesalpiniaceae	Aidan tooro/lawale, Golden shower	Root, bark
53	Senna podocarpa (Guill & Perr) Lock	Caesalpiniaceae	Asunwon ibile	Root, leaf
54	Senna sieberiana DC.	Caesalpiniaceae	Aidantooro, West African laburnum Root	
55	Sida acuta Burm. f.	Malvaceae	Osepotu, Broom weed Root, leaf	
56	Sorghum bicolour (L.) Moench	Poaceae	Oka baba, guinea corn Grain cha	
57	Spondias mombin Linn.	Anacardiaceae	Iyeye, hog plum Bark	
58	Staudtia stipitata Warb.	Myristicaceae	Oropa, amuje Bark	
58	Talinum triangulare (Jacq.) Wild	Portulacaceae	Gure, water leaf	Leaf
60	Tetrapleura tetraptera (Schum & Thonn) Taub	Mimosaceae	Aidan	Bark, fruit
61	Triclisia subcordata	Menispermaceae	Wowo	Root
62	Uraria picta (Jacquin) Desvaux ex Candolle	Papilionaceae	Alupayida	Leaf
63	Vernonia amygdalina Del.	Asteraceae	Ewuro, bitter leaf	Leaf
64	<i>Xylopia aethiopica</i> (Dunal) A. Rich	Annonaceae	Eru, Ethiopian pepper	Seed, fruit, bark

65	<i>Xylopia quintasii</i> Pierre ex Engl. & Diels	Annonaceae	Eru awonka	Fruits, seed, leaf
66	Zea mays L.	Poaceae	Agbado, maize	Processed grain chaff, silk
67	Unidentified		Toanjogbe	Root

Table 4: List of animals used for the treatment of women's health in Oyo State, Nigeria

S/N	Biological name	Local/common name	Part used
1	Merops nubicus	Aluko, carmine bee eater/woodcock	Feather
2	Psittacus erithacus	Ayekooto, African grey parrot	Feathers, crown/head, tail
3	Malapterurus electricus	Ojigi, Electric fish (electric cat fish)	Whole body
4	Ratufa macroura	Squirrel	Head
5	Clarias gariepinus	Abori/aaro, Catfish	Whole body
6	Anas platyrhynchos	Pepeye, Duck/white duck	Gizzard
7	Gallus sp.	Adiye, domestic fowl (hen)	Eggs
8	Capra hircus	Ewure, she-goat	Button
9	Sus scrofa domesticus	Elede, pig	Pork

Table 5: List of other ingredients (non-plants materials) encountered in the study

Honey	Olive oil
Gin/local gin/schnapps	Palm oil
Native soap	Fresh spring water
New sponge	Potash
Prepared pap	Itana liborotan
Sugar	Salt
Cowrie	Fine sand (sieved)
Fermented corn extract	Palm kernel nut

4. Discussions

This study once again confirmed the universality of traditional medicinal practices in the study area, as a model for the entire Nigeria and Africa. For instance, herbal medicinal preparations used contraceptives and abortifacients were as identified in this study. Furthermore, there are herbal preparations for ante-natal and post-natal cares for pregnant women, while herbal remedies were also identified in this study to ensure safe delivery of foetuses. This perhaps explains why large percentages of child births still take place as managed by Traditional Birth Attendants (TBAs) in local maternity centres than in hospitals across Africa, as noted by Sofowora ^[15]. It has also been suggested that only about 28 percent of rural Nigerian women have births handled by skilled personnel ^[16,17]. The majority of the births in rural Nigeria take place with the assistance of traditional birth attendants [18,19].

Uterine leiomyomas (fibroids) are the commonest tumour of the female genital tract ^[20]. It is

estimated that 20% - 45% of women above the age of 30 years have uterine fibroids ^[21]. Fibroids are common in black women than in their Caucasian counterparts ^[22]. In Nigeria, uterine fibroids have been reported to account for 3.2 -7.8% of new gynaecological cases ^[23, 24]. They also accounted for about 68.1% hysterectomy cases ^[23, 24]. Fibroids are often detected in women undergoing infertility evaluation in many black communities. An incidence of 17.9% - 26% has been found at laparoscopy in some Nigerian studies ^[25, 26] which is much higher than 11% reported in Europe and United States ^[27]. They are symptomatic in 50% of cases, with the peak incidence of symptoms occurring among women in their 30s and 40s ^[28,29,30].

Furthermore, menstrual problems have been reported in about 87 percent of school girls in Nigeria ^[31]. For example in 352 randomly selected healthy Nigerian school girls in urban areas, 187 (53.1%) had menarche but 40 percent of those were deficient in their knowledge of

menstruation. Although menstrual knowledge was higher in post-menarche girls, 10 percent were also totally ignorant about menstruation and 84 percent were not psychologically prepared for the first menstruation. A similar study in Haryana among 130 girl students aged 13-17 years reported poor awareness and health seeking practices during menstruation. The study reported the commonest reported menstrual problem as dysmenorrhoea (40.7%) followed by irregular menses $(2.3\%)^{[32]}$.

Carcinoma of the breast (breast cancer) is one of the leading causes of death among women aged 30 years and above ^[33]. Lambo ^[34] explained that there is likely to be 100,000 new cases each year, and that by 2010 there may be 500,000 new cases. It is worthy of note that the survival rate for breast cancer in the Unites States of America is 85 % while it is a dismal 10% in Nigeria ^[35]. between 1960 and 1980 (Figure 3), Cervical Cancer had 19.9% prevalence while breast cancer had 11.2% but between 1981 and 1995, breast cancer has taken over the lead with 25.7% while cervical cancer followed closely with 22.7%, while breast cancer deaths rates higher than other types of cancers with 8,454 (15.9%) deaths ^[36].

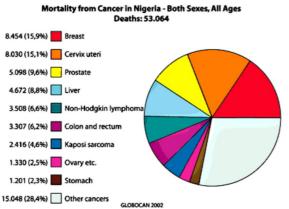


Fig 3: Chart showing mortality from cancer in Nigeria between 1960 and 1980

Source: Globocan^[36]

From secondary data mining, previously published scientific information are lacking on the traditional medicinal remedies for the treatment of fibroid. Therefore, the herbal remedies for treating fibroid as identified in this study offers great pharmaceutical foundation for further studies and documentation. However, one of the herbal remedies described in this for the treatment of breast cancer resembles the 9th recipe described for treating cancers in Soladoye *et al.*^[37]. The use of *Ocimum gratissimum* and *Kigelia africana* as galactogogue was noted by Gbadamosi and Okolosi ^[38], while *Aframomum melegueta* have also been reported to possess milk stimulating properties ^[39].

In Nigeria, the use of herbal contraceptives and abortifacients has increased in the recent times ^[40]. This is probably due to the fact that abortion is still illegal in Nigeria. Some women prefer this alternative of birth control above the synthetic contraceptives and other abortion pills. Because it constitutes little or no side effects, it is relatively cheap, easily accessible and effective. The medicaments are usually preferred after sexual intercourse and before pregnancy. Therefore most users are young women between age 18 and 40 [40] Several plants are being used as contraceptives and abortifacients in Nigeria. Kadiri ^[40] identified the use Abrus precatorius, Xylopia aethiopica, Carica papava, Ricinus communis, Colocynthis citrullus, Aframomum melegueta and many others as contraceptives, some of which are also mentioned in this study.

5. Conclusions

This study has revealed the herbal remedies used for the treatment of several health issues that affect women in Oyo State, Nigeria. The documentation and publication of these finding will ensure the preservation of indigenous knowledge, cultural values and knowledge of medicinal plants, which could act as basis of further pharmacological research, bioprospecting and drug discovery.

6. References

- 1. Miller MN. Traditional Medicine in East Africa. America Universities Field Staff Report, 1990, 22:1-15.
- 2. Hostettmann K, Marston A, Ndjoko K, Wolfender J-L, The Potential of African Medicinal Plants as a Source of Drugs. Current Organic Chemistry 2000; 4:973-1010.
- 3. Diallo D, Paulsen BS. Pharmaceutical research and traditional practitioners in Mali: Experiences with benefit sharing. *In:*

Responding to Bioprospecting from Biodiversity in the South to Medicine in the North. Svarstad H & Dhillion S (eds.), Norway, 2000, 133-144.

- Bako SP, Bakfur MJ, John I, Bala E. Ethnomedicinal and phytochemical profile of some savanna plants species in Nigeria. International Journal of Botany 2005; 1(2):147-150.
- 5. Ukwuomah B, Da Costa K. Government may soon formulate crude drugs herbal policy. In the Guardian Newspaper (Nigeria), October 3, 1997; 4.
- 6. Stepp JR. Advances in Ethnobiological Field Methods. Field Methods, 2005; 17(3):211–218
- 7. Williams LAD. Ethnomedicine. West Indian Medicinal Journal 2006; 55(4):215-216.
- Lalonde A. African Indigenous Knowledge and Its Relevance to Sustainable Development, 55-63. In: Traditional Ecological Knowledge – Concepts and Cases. Ottawa: International Program on TEK and the International Development Research Centre, 1993.
- 9. Abebe D. Development and Utilization of herbal remedies in Ethiopia. Ethiopian Health and Nutrition Research Institute Workshop, 1996.
- Prance GT. Ethnobotany and the future of conservation. Biologist (London), 2000; 47(2): 45-68
- 11. Weldegerima B. Review on the importance of documenting ethnobiological information on medicinal plants. African Journal of Pharmacy and Pharmacology 2009; 3(9):400–403.
- 12. Geerlings EC. Background information on research subjects, sheep husbandry and ethnoveterinary knowledge of Raika Sheep pastoralist in Rajasthan, India (MSc thesis), 2001.
- 13. National Bureau of Statistics. 2006 Population Census. Available at http://www.nigerianstat.gov.ng. Accessed 28 January 2010.
- Gbile ZO, Soladoye MO. Vernacular names of Nigerian plants (Yoruba), 2nd Ed. Forestry Research Institute of Nigeria, Ibadan, 2006.
- 15. Sofowora A. Medicinal Plants and Traditional Medicine in Africa. 3rd Edition, Spectrum Books Ltd, Ibadan, Nigeria, 2008, 439.
- 16. Harrison K. Maternal Mortality in Nigeria: The Real Issues. African Journal of Reproductive Health 1997; 1:7-13.
- UNICEF. Maternal Care: End Decade, 2007. Database: <http://www.childinfo.org/eddb/mat_mortal/i ndex.htm> (Accessed: 3rd July, 2013).

- Essien E, Shehu D, Ikeh A, Juna M. Community Loans Funds and Transportation Service for Obstetric Emergencies in Northern Nigeria. International Journal of Gynaecology and Obstetrics 1997; 59:237-244.
- 19. Ransom E, Yinger N. Marking Pregnancy Safer, Overcoming Obstacles on the Pathway to Care, Washington DC: Population Reference Bureau, 2002.
- Lowe DG. Benign. Tumors of the Uterus. In: Dewhurst's Textbook of Obstetrics and Gynaecology for Postgraduate. 6th Ed, Edmonds DK (Ed) Blackwell Science Publication London, 1999, 552–559.
- 21. Akinyemi BO, Adewoye BR, Fakoya TA. Uterine fibroid: A review. Nigeria Journal of Medicine 2004; 13(4):318–329.
- 22. Oguniyi SO, Fasuba O. Uterine fibromata in Ilesha, Nigeria. Nigeria Medical Practitioner 1990; 191:93–95
- 23. Aboyeji AP, Ijaiya MA. Uterine fibroids. A Ten year clinical review at University of Ilorin Teaching Hospital, Ilorin, Nigeria. Nigeria Journal of Medicine, 2002; 11(1):16–19.
- 24. Otolorin EO, Ojengbede O, Falase AO. Laparoscopic evaluation of the tubo-peritoneal factor in infertile Nigerian women. Gynaecology and Obstetrics, 1987;25:42–52.
- Sagay S, Udoeyop EU, Pam C, Karshina JA, Daru PH, Otubu JAM. Laparoscopic evaluation of 1000 consecutive infertile women in Jos Nigeria. Tropical Journal of Obstetrics and Gynaecology 1998; 15(1):30–35.
- 26. Vollenhoven BJ, Lawrence AS, Healey DC. Uterine fibroid: a clinical review. British Journal of Obstetrics and Gynaecology 1990; 97:285– 298.
- Ogedengbe OK. Uterine Fibroids In: Contemporary obstetrics and gynaecology for developing countries. In: Okonofua .F and Odunsi K (Ed) Intec Printers Limited Ibadan, 2003, 202–213.
- 28. DeWaay DJ, Syrop CH, Nygaard IE, Davis WA, Van Voorhis BJ. Natural history of uterine polyps and leiomyomata. Obstetrics and Gynaecology,2002;100:3-7.
- 29. Baird DD, Dunson DB, Hill MC, Cousins D, Schectman JM. High cumulative incidence of uterine leiomyoma black and white women: Ultrasound evidence. American Journal of Obstetrics and Gynecology 2003; 188:100-107.
- 30. Wise LA, Palmer JR, Stewart EA, Rosenberg L. Age-specific incidence rates for self-reported uterine leiomyomata in theblack women's health study. Obstetrics and Gynecology 2005; 105:563-568.

- 31. Abioye-Kuyeti EA. Menstrual knowledge and practices amongst secondary school girls in Ile Ife, Nigeria. J R Soc Promot Health 2000; 120(1):23-26.
- 32. Singh MM, Devi R, Gupta SS. Awareness and Health Seeking Behaviours of Rural Adolescent Schools Girls on Menstrual and Reproductive Health problems. Indian Journal of Medicine and Science 1999; 53:439-443.
- Haris JS, Lippman ME, Veronesi U, Willett W. Breast Cancer New England Journal of Medicine 1992; 327:319-328
- Lambo EO. Press Release on State of Health in Nigeria. Retrieved on 28th Aug 2007 from Google online database.
- 35. Olopade F. Why Take it if you don't Have Anything? Breast Cancer Risk Perceptions and Prevention Choices At A Public Hospital. Canada Pubmed Online Journal of the National Library of Medicine and the National Institute of Health 2007.
- Globocan. Country fast stats Nigeria. http://globocan.iarc.fr/factsheets/populations/ factsheet.asp?uno=566. Accessed 23/5/2011
- Soladoye MO, Amusa NA, Raji-Esan SO, Chukwuma EC, Taiwo AA. Ethnobotanical Survey of Anti-Cancer Plants in Ogun State, Nigeria. Annals of Biological Research 2010; 1 (4):261-273.
- 38. Gbadamosi IT, Okolosi O. Botanical galactogogues: nutritional values and therapeutic potentials. Journal of Applied Biosciences 2013; 61:4460–4469.
- 39. Iwu MM. Handbook of African Medicinal Plants. CRC Press Inc, Florida, 1993.
- 40. Kadiri AB. An Examination of the Usage of Herbal Contraceptives and Abortifacients in Lagos State, Nigeria. Ethnobotanical Leaflets, 2009; 13:140-46.