Due to the renewed interest in medicinal plants research resulting from the resistance of malarial parasites as well as antibiotics to known drugs, this study was carried out to document the different medicinal plants used by the indigenes of Ogii in Okigwe, Imo State Nigeria to treat different ailments which complements orthodox medicine which is expensive and not readily available. Information on these plants were readily available with the older generation, hence the need to gather and document these data as soon as possible and also highlight the need for the conservation of plant resources. The different plants were collected during field trips in July and November 2008 as well as April and December 2009. A total of seventy three species mostly trees and shrubs belonging to thirty eight families and sixty eight genera were found useful to the people for curing different human diseases as well as other purposes. The most diverse families were Euphorbiaceae, Annonaceae and Fabaceae with seven genera for the former and six each for the other two. Members of the Annonaceae appeared the commonest species used in malarial treatments suggesting the presence of antiplasmodial substances in this family and the need to extract and characterize such for posterity. The survey was carried out using a structured questionnaire administered to local herbalists (ethnomedicinal practitioners) as well as some elderly men and women. The information provided in this paper included the botanical names, local names, family names, life forms, and parts of the plants used for medicinal purposes. Most of the plants were already known. The dried, pressed, and mounted specimens were deposited in the temporary herbarium of the Redeemer’s University after proper authentication by Mr. B.O. Daramola and Mr. T. Odewo at the University of Lagos Herbarium.

Keywords: ethnobotany, antiplasmodial, medicinal plants, malaria, Ogii.

INTRODUCTION

In developing countries where modern western medicine is expensive, most of the indigenes rely on indigenous plants for the treatment of various ailments. Medicinal plants have been used since prehistoric times for the cure of different ailments (Qureshi et al. 2009). Again, with the ever changing resistance of malarial parasites to modern medicines coupled with the well documented cases of antibiotic resistance (Wongsrichanalai et al. 2002; Okeke, 2003; Shittu, et al. 2011), the locals resort to the combined use of different medicinal plants to curb this menace. Ogii Okigwe is inhabited by Igbo speaking people of Southeastern Nigeria. The area belongs to the humid tropic having the two peculiar dry and rainy seasons respectively. Though several workers have documented medicinal plants from south eastern Nigeria, the information is scanty compared to those from other parts of the country (Ibe and Nwufor, 2005; Obute, 2005; Ndukwu and Ben-Nwadibia, 2005; Edeoga, 2007;
Okujagu et al. 2008; Ogbonna et al. 2008; Njowundu et al. 2010; Nwosu, 2002). Moreover, nothing has been documented from Okigwe generally. This present study is undertaken to first document the different plants and their parts used by the local Ogii community in treating different diseases as well as the preparation methods and dosages. This will pave way for further research on these plants to identify and isolate the different active ingredients contained in them especially as the search for more effective malarial drugs continues. The information contained herein will also highlight the contributions of some plants to the general healthcare of the people of Ogii-Okigwe.

MATERIALS AND METHODS

The study was conducted at the Ogii community located in the Okigwe local government area of Imo state Nigeria (latitude 5° 47'N and 7° 21'E). A structured questionnaire (Appendix 1) was prepared and administered to local herbalists (ethnomedicinal practitioners) as well as some elderly men and women who are more familiar with the medicinal uses of these plants than the younger generations. Two herbalists and fifty elderly people the majority of which were males the (36) were involved. The different plants were collected and shown to them for which they gave the medicinal and other uses. Most of their claims agreed together revealing the common use of some of the plants.

Collection of ethnomedicinal data

Ogii area was surveyed during field trips in July and November 2008 as well as April and December 2009 and the specimens were collected. The questionnaire (Appendix 1) was designed to extract information from the elderly and trado-medicinal practitioners. The elderly were chosen because they are more familiar with the uses of these plants than the younger generations who resort more to orthodox medicine. Bardshah and Hussain (2011) had highlighted the loss of information on medicinal uses of plants as the older generations die since they are more knowledgeable than the younger generations. Again the younger generations prefer western medicines to these local ones due to spiritual inclinations and the notion that herbal medicines are always associated with idol worship, together with the belief that the dosages for these herbal remedies are not reliable.

Identification of the collected specimens were done using Flora of West Tropical Africa (Hutchinson and Dalziel, 1954, 1968); Nigerian Trees (Keay et al. 1954); Outlines and Pictures of Medicinal plants in Nigeria (Odugbemi, 2006, 2008); Handbook of African Medicinal Plants by Iwu, 1993; Medicinal plants of Nigeria (South-East) By Okujagu et al., (2009);; and Guide to West African Weeds by Akobundu and Agyakwa, 1987. The unknown ones were correctly identified and authenticated by Mr. Benjamin Daramola and Mr. Thomas Edewo at the Herbarium of the University of Lagos. All the collected plant specimens were pressed, dried, mounted on sheets and deposited in the temporary herbarium of the Redeemer’s University after proper authentication by Mr. B.O. Daramola and Mr. T. Edewo at the University of Lagos Herbarium.

RESULTS

A total of seventy three (73) plant species were studied and the local names, family, uses and parts of the plant used are enumerated below. The commonest families were Euphorbiaceae, Fabaceae, Annonaceae, and Rubiaceae (Table 1) with a total of seven, seven, six and four genera respectively. While Euphorbiaceae and Fabaceae were represented by seven species, Annonaceae, and Rubiaceae were represented each by six and four species. Of these seventy three species, 36 were trees, 19 shrubs, 10 herbs and 8 climbers. Figure 1 shows the percentage occurrence of each life form studied. Table 2 summarizes the different diseases and their associated species. Of the fifty two respondents, 65% were above 60 years, while 35% were between 45 and 60 years. They more elderly ones were able to recognize above sixty of the seventy three plants studied. Majority of them attested to having not suffered from serious toothache as they use chewing sticks daily.

   Local name: Nkpodu
   Family: Lecythidaceae
   Life form: Shrub
   Part used: Fresh leaves, stem, roots, fruit
   Specimen No: RH001
   Ethno-botanical uses: Matured fruit edible. Fresh leaves chewed for stomach ache. Roots boiled with “Usu” (Pleurotus tuberregium) and drunk for treatment of chest and heart pains.

2. Botanical name: Burkea africana Hook.
   Local name: Ofo
   Family: Fabaceae subfam. Caesalpinioideae
   Life form: Tree
   Part used: Bark, seeds
   Specimen No: RH002
   Ethno-botanical uses: Stem bark ground together with potash and boiled, taken while hot for seven days to cure tuberculosis. Also combined with ground leaves of “Anyan nnunu” Abrus precatorius and potash and the mixture licked for treatment of tuberculosis. Seeds boiled and ground and used as soup condiment/thickener.
   - Local name: Ogbeduga
   - Family: Loganiaceae
   - Life form: Tree
   - Part used: Root, leaves
   - Specimen No: RH003
   Ethno-botanical uses: Root boiled together with "Osisikaguru" *Strophanthus hispidus* and taken for swollen stomach and oedema. Again, roots boiled and taken for venereal diseases. Leaves used as fodder for livestock.

4. Botanical name: *Strophanthus hispidus* (D. C.)
   - Local name: Osisikaguru
   - Family: Apocynaceae
   - Life form: Climber
   - Part used: Stem, leaves, seeds
   - Specimen No: RH004
   Ethno-botanical uses: A multipurpose medicinal plant. Stem and leaves boiled with palm wine for the treatment of swollen stomach and burning sensation in heart. Half part of a tumbler taken thrice daily for one week. Seeds ground and put in bottle with gin and taken morning and night for eight days for treatment of heart disorders. Added to other preparations to treat different ailments.

5. Botanical name: *Brachystegia eurycoma* Harms
   - Local name: Achi
   - Family: Fabaceae subfam. Caesalpinioideae
   - Life form: Tree
   - Part used: Seeds, roots
   - Specimen No: RH005
   Ethno-botanical uses: Roots infused in gin, I shot taken morning and night for seven days to treat infertility. Roots ground with *Abras precatorius* to treat cough. Roots also used in the preparation of good luck charms. Matured seeds boiled or roasted, ground and used as soup condiment.

6. Botanical name: *Dennettia tripetala* (Bak.) F.
   - Local name: Nnimmii
   - Family: Annonaceae
   - Life form: Tree
   - Part used: Roots, leaves, seeds
   - Specimen No: RH006
   Ethno-botanical uses: Cut roots combined with "odu- agu" *Uvaria chamae* roots put in bottle with gin, one half tumbler taken thrice daily for arthritis treatment. Leaves boiled and used to bathe for malaria. Seeds edible, served as kola to visitors.

7. Botanical name: *Newbouldia laevis* (P. Beauv.) Seemann ex Bureau
   - Local name: Ogirisi
   - Family: Bignoniaceae
   - Life form: Tree
   - Part used: Leaves

   Specimen No: RH007
   Ethno-botanical uses: Leaves boiled with bark of "ugba" *Pentacleter macrophylla* and bark of "osisikaguru" *Strophanthus hispidus* for the treatment of abscesses. Leaves warmed over fire and applied on dislocations. Root scraped, squeezed and put on wound to stop bleeding.

   - Local name: Ori-agbo
   - Family: Icacinaceae
   - Life form: Shrub
   - Part used: Leaves, tuber
   - Specimen No: RH008
   Ethno-botanical uses: Fresh leaves boiled and drunk for malaria. Tuber used in combination with other herbs for pile.

   - Local name: Atunwa nkapi
   - Family: Olacaceae
   - Life form: Shrub
   - Part used: Roots, stems
   - Specimen No: RH009
   Ethno-botanical uses: Stem used as chewing stick for toothache, stems and branches used as broom. Roots used treat impotence in men.

    - Local name: Nne mmanu
    - Family: Rubiaceae
    - Life form: Tree
    - Part used: Bark, Leaves
    - Specimen No: RH010
    Ethno-botanical uses: Infusion of the leaves and bark used to treat malaria and typhoid fever. Bark boiled for treatment of itching of private part in women. Leaves also used as fodder for goats.

11. Botanical name: *Alstonia boonei* De Wild.
    - Local name: Egbu
    - Family: Apocynaceae
    - Life form: Tree
    - Part used: Bark
    - Specimen No: RH011
    Ethno-botanical uses: Bark ground with alligator pepper and placed for embrocating painful part of body or broken arm or leg.

    - Local name: Mahogany
    - Family: Meliaceae
    - Life form: Tree
    - Part used: Bark
    - Specimen No: RH 012
    Ethno-botanical uses: Bark boiled in pot with little quantity of local chalk "nzu". I shot (small tumbler) taken thrice
daily for treatment of chest /heart pains.

13. Botanical name: *Chromolaena odorata* (L.) R.M. King and Robinson
   - Local name: Obiarakara
   - Family: Asteraceae
   - Life form: Herb
   - Part used: Leaves
   - Specimen No: RH013

Ethno-botanical uses: Leaves squeezed and applied on fresh cuts to stop bleeding.

   - Local name: Ujukere
   - Family: Anacardiaceae
   - Life form: Tree
   - Part used: Leaves, fruits, bark
   - Specimen No: RH014

Ethno-botanical uses: Stems used in fence making. Ripe yellow fruits edible. Leaves used as fodder for goats but not newly pregnant females, causes abortion. Also used to remove placenta after delivery. Bark used for the treatment of venereal diseases, dysentery and diarrhea.

   - Local name: Odu-agu
   - Family: Annonaceae
   - Life form: Shrub
   - Part used: Stem bark, leaves, fruits.
   - Specimen No: RH015

Ethno-botanical uses: Ripe fruits edible. Leaves and bark boiled and taken for malaria. Stem bark also used as alternative rope to tie firewood. Roots used to treat venereal diseases.

   - Local name: Utazi
   - Family: Asclepiadaceae
   - Life form: Climber
   - Part used: Leaves
   - Specimen No: RH016

Ethno-botanical uses: Leaves used as vegetable, for preparation of pepper soup, yam stew, used together with other spices for postpartum women and treatment of stomach aches.

   - Local name: Uzuza
   - Family: Piperaceae
   - Life form: Climber
   - Part used: Leaves, fruits
   - Specimen No: RH017

Ethno-botanical uses: Leaves and fruits used for pepper soup and ordinary soup making. Sold as source of revenue in big markets. Combined with other herbs for treatment of impotence.

   - Local name: Njamunja
   - Family: Piperaceae
   - Life form: Shrub
   - Part used: Leaves
   - Specimen No: RH018

Ethno-botanical uses: Leaves boiled with “Uzuza” *Piper guineense* and yam. The preparation taken five days for the treatment of dry and chesty coughs. Leaves also combined with bark of “Ofo” *Burkea* occasionally to treat tuberculosis.

   - Local name: Uda
   - Family: Annonaceae
   - Life form: Tree
   - Part used: Fruits
   - Specimen No: RH019

Ethno-botanical uses: Fruits used in combination with *Piper nigrum*, *Tetrapleura tetraptera*, *Capsicum frutescens* to prepare concoction for woman who newly delivered, believed to help in uterus contraction.

   - Local name: Nkpokoro nwa ohio hio
   - Family: Leguminosae
   - Life form: Tree
   - Part used: Fruit
   - Specimen No: RH020

Ethno-botanical uses: Fruit burnt to drive away soldier ants and mosquitoes. Also used as spice to cook for newly delivered women.

   - Local name: Kpirimbo
   - Family: Euphorbiaceae
   - Life form: Shrub
   - Part used: Leaves
   - Specimen No: RH021

Ethno-botanical uses: Leaves combined with *Ceiba* leaves and boiled for fever. Leaves also used as fodder for goats, highly preferred over others by livestock.

   - Local name: Inyima
   - Family: Fabaceae
   - Life form: Tree
   - Parts used: Roots, bark and leaves.
   - Specimen No: RH022

Ethno-botanical uses: Roots and bark used as antidote for poison. Roots boiled with potash for urinary tract infections. Bark boiled for stomach disorders (stooling). Cut stems used to carve mortars for pounding yam, foo foo etc.
   Local name: Ibishi
   Family: Euphorbiaceae
   Life form: Tree
   Part used: Leaves
   Specimen No: RH023
   Ethno-botanical uses: Bark boiled and used as purgative to clean the system. Leaves used as fodder for goat.

24. Botanical name: *Glyphaea brevis* (Spreng) Monachino
   Local name: Ara anyasi
   Family: Tiliaceae
   Life form: Shrub
   Parts used: Stem, bark and leaves.
   Specimen No: RH024
   Ethno-botanical uses: Stem used as cane during masquerade festival. Bark scraped and boiled with leaves for fever, venereal diseases and toothache treatments.

   Local name: Oji nwa nnabe
   Family: Zingiberaceae
   Life form: Herb
   Part used: Whole
   Specimen No: RH025
   Ethno-botanical uses: To cure migraine. Scrape and crush, place on eyelids, and face, open eyes several times, and close again to feel impact.

   Local name: Ububa
   Family: Sterculiaceae
   Life form: Tree
   Part used: Fruits, leaves
   Specimen No: RH026
   Ethno-botanical uses: Ripe fruits edible. Leaves boiled and taken for treatment of venereal diseases.

   Local name: Ububa
   Family: Fabaceae
   Life form: Tree
   Part used: Bark or leaves
   Specimen No: RH027
   Ethno-botanical uses: Bark or leaves boiled for malarial bathing. Bark boiled and used for treatment of stomach upset.

   Local name: Nkwu
   Family: Arecaceae
   Life form: Tree
   Part used: Different parts
   Specimen No: RH028
   Ethno-botanical uses: Fronds used to make brooms for sweeping. Mature stem used for building and also tapped for palm wine which is used to infuse most herbal preparations. The ripe fruits used to prepare palm oil for home cooking, and industrial uses. Palm oil taken as antidote for poison. Extracts from palm oil preparation used as anti poison, and for warding off evil spirits. Palm kernels cracked and husks used for sand filling and as fuel for fires, the kernel boiled to prepare palm kernel oil which is used as body cream and as a potent multipurpose medicine especially dropped in the eyes and anus as well as rubbed on the bodies of convulsing children to effect healing. Bark of fronds cut and used to weave baskets for storage and movement of marketable farm products. Fresh ripe fruits roasted in fire and eaten to for relief from cough and as sleep inducing agent.

29. Botanical name: *Ocimum gratissimum* Linn.
   Local name: Nchu anwu
   Family: Lamiaceae
   Life form: Herb
   Part used: Leaves
   Specimen No: RH029
   Ethno-botanical uses: Popular leafy vegetable, used to spice different food preparations and in the preparation of pepper soups. Leaves squeezed into cup and taken for instant relief from stomach upset, also applied onto umbilical cord of babies to sterilize them and prevent infection. Leaves also squeezed and inhaled for relief from catarrh. Leaves also burnt to drive away mosquitoes hence the name. Mixed with mistletoes from Cola too treat diabetes.

30. Botanical name: *Ricinus communis* Linn.
   Local name: Nkpikpi
   Family: Euphorbiaceae
   Life form: Shrub
   Part used: Seeds, roots
   Specimen No: RH030
   Ethno-botanical uses: Seeds used to prepare soup condiment "ogiri". Roots boiled with potash to treat venereal diseases. Oil from seeds used medicinally at home and industry.

31. Botanical name: *Monodora tenuifolia* (Benth.) W.
   Local name: Osisi ogiri/Ehuru
   Family: Annonaceae
   Life form: Tree
   Part used: Seeds
   Specimen No: RH031
   Ethno-botanical uses: Seeds fried and ground to prepare condiment for eating kolanuts. Used in pepper soups. Seeds also chewed and put on forehead to stop headache. Stem chewed for toothache.
32. Botanical name: *Abrus precatorius* Linn.
   - Local name: Anya nnunu
   - Family: Leguminosae
   - Life form: Climber
   - Part used: Leaves
   - Specimen No: RH032
   - Ethno-botanical uses: Infusion of the leaves used to treat whopping cough.

33. Botanical name: *Costus afer* Ker-Gawl.
   - Local name: Okpoto
   - Family: Zingiberaceae
   - Life form: Shrub
   - Part used: Fresh stems, leaves
   - Specimen No: RH033
   - Ethno-botanical uses: Fresh stem chewed for cough, leaves used to wrap sliced oil bean seeds to ferment and improve taste.

34. Botanical name: *Physalis angulata* Linn.
   - Local name: Ogwu ari
   - Family: Solanaceae
   - Life form: Herb
   - Part used: Leaves
   - Specimen No: RH034
   - Ethno-botanical uses: Leaves squeezed and put inside folded *Newbouldia laevis* leaves and dropped in eyes for the treatment of eye infections, redness of eye, scratching of eyes (“ari anya”).

35. Botanical name: *Carica papaya* Linn.
   - Local name: Okwuru bekee
   - Family: Caricaceae
   - Life form: Tree
   - Part used: Every part
   - Specimen No: RH035
   - Ethno-botanical uses: Ripe fruit edible. Fresh leaves and ground potash used for the treatment of whitlow, leaves boiled with *Mangifera indica*, *Cympopogon citratus* and *Citrus aurantifolia* for typhoid and malaria. Stem and roots boiled for venereal diseases. Unripe fruits eaten for malaria. Seeds crushed and used to make face look smooth.

   - Local name: Ngwo
   - Family: Arecaceae
   - Life form: Tree
   - Part used: Exudate from wounded stem, stem, sap.
   - Specimen No: RH036
   - Ethno-botanical uses: Sap used as palm wine and also boiled for gin production. Exudate from wounded stem used to treat whitlow. Stem and fronds used for building. Cut and rotted stem source of raphia maggots which are edible and put in water fed to babies, believed to have medicinal effects and to make babies grow fat.

37. Botanical name: *Raphia hookeri* Mann & Wendl.
   - Local name: Ide
   - Family: Arecaceae
   - Life form: Tree
   - Part used: Exudate from wounded stem, Stem, fronds
   - Specimen No: RH037
   - Ethno-botanical uses: Sap used as palm wine and also boiled for gin production. Exudate from wounded stem used to treat whitlow. Stem and fronds used for building and weaving of local canopy, masquerade wears, hand fans. Fronds used to make canoe paddling poles. Seeds and fruit used by Boys Scouts for decoration.

38. Botanical name: *Jatropha curcas* Linn.
   - Local name: Okwe aru
   - Family: Euphorbiaceae
   - Life form: Shrub
   - Part used: Root, bark
   - Specimen No: RH038
   - Ethno-botanical uses: Root or bark boiled with potash for the treatment of impotence, gonorrhea and other venereal diseases. Planted as a hedge plant. Juice very dangerous to the eyes.

   - Local name: Ogwu afo
   - Family: Euphorbiaceae
   - Life form: Herb
   - Part used: Leaves
   - Specimen No: RH039
   - Ethno-botanical uses: Leaves boiled with yam and used as purgative.

40. Botanical name: *Peperomia pellucida* (L.) H. B. & K.
   - Local name: ……….. 
   - Family: Piperaceae
   - Life form: Herb
   - Part used: Leaves
   - Specimen No: RH040
   - Ethno-botanical uses: Leaves crushed and applied in between toes to treat athletes’ foot. Leaves also applied to wounds to effect healing.

41. Botanical name: *Lawsonia inermis* Linn.
   - Local name: Lali
   - Family: Lythraceae
   - Life form: Shrub
   - Part used: Roots, Leaves
   - Specimen No: RH041
   - Ethno-botanical uses: Roots boiled with potash and used as abortifacient. Leaves ground and applied as cosmetics on nails.

42. Botanical name: *Annona senegalensis* Pers.
   - Local name: Nri nnunu
   - Family: Combretaceae
Life form: Shrub
Part used: Fruits, Bark, fruit
Specimen No: RH042

43. Botanical name: *Senna alata* L. (Roxb)
Local name: Ogwu ululoo
Family: Fabaceae
Life form: Herb
Part used: Leaves
Specimen No: RH043
Ethno-botanical uses: Leaves crushed for the treatment of ring worm. The ring worm site is initially scratched before the application of the crushed *Senna* leaves. Leaves burnt to drive away mosquitoes.

44. Botanical name: *Vernonia amygdalina* Del. Cent.
Local name: Olugbu
Family: Compositae
Life form: Shrub
Part used: Leaves
Specimen No: RH044
Ethno-botanical uses: Leaves applied to fresh cuts to stop bleeding. Leaf decoction used to treat cough, and also taken for malaria. Leaves squeezed and taken to reduce blood sugar, recommended for diabetics.

45. Botanical name: *Bryophyllum pinnatum* (Lan.) Oken
Local name: Akwukwo ndu
Family: Crassulaceae
Life form: Herb
Part used: Leaves
Specimen No: RH045
Ethno-botanical uses: Squeezed juice from heated leaves mixed with talc powder for the healing of navels in infants. Leaves crushed and applied on wounds for healing.

46. Botanical name: *Alchornea cordifolia* (Benth.) Pax and K. Hoffin.
Local name: Ubube
Family: Euphorbiaceae
Life form: Shrub
Part used: Leaves, twigs
Specimen No: RH046
Ethno-botanical uses: Leaves boiled and used to bathe children with small pox. Leaves also used as fodder for goats. Twigs used as chewing stick to treat toothache.

47. Botanical name: *Borassus aethiopium* Mart.
Local name: Ebi
Family: Arecaceae
Life form: Tree
Part used: Fruits, root, leaves
Specimen No: RH047
Ethno-botanical uses: Fruits edible. Root boiled with potash and used to treat swollen testis. Leaves woven to make local hand fan. Matured stem used as timber for building construction.

Local name: Uri
Family: Rubiaceae
Life form: Shrub
Part used: Fruits, roots, bark
Specimen No: RH048
Ethno-botanical uses: Fruits crushed and used to decorate body to heal smallpox. Bark and leaves boiled and used to bathe also for relief from smallpox.

Local name: Amunkita
Family: Apocynaceae
Life form: Shrub
Part used: Fruit, roots
Specimen No: RH049
Ethno-botanical uses: Root boiled for treatment of venereal diseases. Fruits ground and used as worm expeller.

50. Botanical name: *Maesobotrya barteri* (Baill.) Hutch.
Local name: Uvune
Family: Euphorbiaceae
Life form: Shrub
Part used: Fruit, stems
Specimen No: RH050
Ethno-botanical uses: Ripe fruits edible. Stem used as chewing stick to treat toothache. Roots cut and infused in gin for arthritis. Stems also used for fencing and supporting yam tendrils on the farm.

51. Botanical name: *Pterocarpus santalinoides* L' Herit. Ex DC.
Local name: Uturukpa
Family: Fabaceae
Life form: Tree
Part used: Leaves
Specimen No: RH051
Ethno-botanical uses: Leaves used as vegetables and as livestock feed for goats.

52. Botanical name: *Pterocarpus soyauxii* Taub.
Local name: Oha/Ora
Family: Fabaceae
Life form: Tree
Part used: Leaves
Specimen No: RH052
Ethno-botanical uses: Fresh leaves used as vegetables and as livestock feed for goats. Fresh leaves also recommended for consistent use by diabetics. Bark
crushed used for treating eczema and ringworm. Matured trees used as timber and for making talking drums used to announce meetings and during masquerade festivals.

53. Botanical name: *Cleistopholis patens* (Benth) Engl. And Diels
   Local name: Oghuru/Oghulu
   Family: Annonaceae
   Life form: Tree
   Part used: Bark
   Specimen No: RH053
   Ethno-botanical uses: Leaves combined with *Uvaria chamae* for malarial treatment or stem bark boiled in water with yam and taken for quick relief from malaria.

54. Botanical name: *Ceiba pentandra* (L.) Gaertn.
   Local name: Akpu
   Family: Bombacaceae
   Life form: Tree
   Part used: Fresh leaves, stem
   Specimen No: RH054
   Ethno-botanical uses: Fresh leaves used as vegetable. Bark boiled in water and used for diabetes and erectile dysfunction treatments. The silk used in some medicinal preparations. Matured stem used as timber for construction.

   Local name: Akpu ogiri
   Family: Bombacaceae
   Life form: Tree
   Part used: Bark, leaves, stem
   Specimen No: RH055

56. Botanical name: *Pisidium guajava* Linn.
   Local name: Gova
   Family: Myrtaceae
   Life form: Tree
   Part used: Stem, leaves, fruits
   Specimen No: RH056
   Ethno-botanical uses: Matured fruits edible. Stem used as chewing stick. Leaves boiled with *Cymbopogon citratus*, *Citrus aurantifolia* (sliced fruits/leaves), *Carica papaya*, and *Azadirachta indica* leaves. Hot preparation put in a cup and drank, also poured into basin and patient covered with thick cloth over the steam to sweat for malarial treatment. The preparation boiled and used to bath the following morning and evening for four days. Fresh leaves also chewed to stop stooling.

57. Botanical name: *Ficus polita* Vahl / *F. capensis* Thunb
   Local name: Ukoro
   Family: Moraceae
   Life form: Tree
   Part used: Leaves, Twigs, fruits
   Specimen No: RH057
   Ethno-botanical uses: Leaves and twigs boiled and left overnight to cool, taken afterwards with malt drink or milk as blood tonic. Leaves also used as fodder for livestock. Fruits edible.

58. Botanical name: *Mucuna pruriens* (L.) DC
   Local name: Agbara ohia
   Family: Leguminosae
   Life form: Climber
   Part used: Leaves, seeds
   Specimen No: RH058
   Ethno-botanical uses: Fresh leaves squeezed and taken with malt or milk as blood tonic. Seeds swallowed while hunting to prevent snake bite. Leaves used in mulching of farms.

59. Botanical name: *Mondia whitei* (Hook. F.) Skeels
   Local name: Ukukoro
   Family: Periplocaceae
   Life form: Climber
   Part used: Fruit
   Specimen No: RH059
   Ethno-botanical uses: Fruits eaten as fruit vegetable with palm oil. Whole plant boiled for the treatment of pile.

60. Botanical name: *Telfaria occidentalis* Hook. F.
   Local name: Ugu
   Family: Curcubitaceae
   Life form: Climber
   Part used: Leaves
   Specimen No: RH060
   Ethno-botanical uses: Leaves used as vegetable. Old leaves used as fodder for goats. Healthy Fresh leaves squeezed and taken with malt or milk to treat anaemia. Seeds scooped out from matured fruit boiled and eaten as vegetable. Roots very potent poison.

   Local name: Oranjele
   Family: Compositae
   Life form: Herb
   Part used: Leaves
   Specimen No: RH061
   Ethno-botanical uses: Leaves squeezed and applied to fresh cuts and wounds to stop bleeding. Leaves also used for the treatment of stomach troubles and as fodder for livestock.

   Local name: ujuju
   Family: Moraceae
   Life form: Tree
   Part used: Stem bark, fruits
   Specimen No: RH062
Ethno-botanical uses: Ripe fruits edible. Stem bark boiled to treat dysentery and stomach upset.

   Local name: Adu
   Family: Discoreaceae
   Life form: Climber
   Part used: Aerial tubers
   Specimen No: RH063
   Ethno-botanical uses: Aerial tubers harvested and stored. Eaten during slight famine after planting of yams, cocoyams etc. Tubers also used for spiritual remedy of mental disorders.

64. Botanical name: *Canarium schweinfurthii* Engl.
   Local name: Ube mgba
   Family: Burseraceae
   Life form: Tree
   Part used: Fruits, bark
   Specimen No: RH064
   Ethno-botanical uses: Fruits softened in boiled water and eaten like black pear. Bark boiled with potash for venereal disease treatment and used to rub limbs of pregnant women with oedema. Matured tree used as timber.

65. Botanical name: *Nauclea latifolia* Smith.
   Local name: Uvuru
   Family: Rubiaceae
   Life form: Shrub
   Part used: Roots, Fruits, bark
   Specimen No: RH065
   Ethno-botanical uses: Roots and stem bark boiled with potash for venereal disease treatment. Leaves boiled with other leaves for malarial treatment. Leaves also used as fodder for goat.

66. Botanical name: *Mitracarpus villosus* (Sw.) DC.
   Local name: Ogwu ngwo
   Family: Rubiaceae
   Life form: Herb
   Part used: Leaves
   Specimen No: RH066
   Ethno-botanical uses: Leaves crushed, squeezed and applied on already scratched eczema surface.

67. Botanical name: *Cola lepidota* (K. Schum)
   Local name: Ochichaa
   Family: Sterculiaceae
   Life form: Tree
   Part used: Fruits, Leaves
   Specimen No: RH067
   Ethno-botanical uses: Testa of ripe fruits eaten raw or with palm oil for nutrients. Stem bark used for the treatment of pile and stomach disorders in combination with *Citrus aurantifolia*, *Gongronema latifolia* and *Scoparia dulcis*. Roots cut in pieces, put in gin and used for arthritis.

68. Botanical name: *Enantia chlorantha* Oliv.
   Local name: Erumeru
   Family: Annonaceae
   Life form: Tree
   Part used: Stem bark.
   Specimen No: RH068
   Ethno-botanical uses: Stem bark boiled in water and taken for malaria. Stems used for supporting yam tendrils on the farm.

   Local name: Agbilu
   Family: Clusiaceae
   Life form: Tree
   Part used: Fruits
   Specimen No: RH069
   Ethno-botanical uses: Fruits eaten raw for cough and sore throat. Could also be eaten together with “tom- tom” for faster relief of chesty coughs. Fruit also served as cola to visitors as sign of good will.

70. Botanical name: *Syncepalum dulcificum* (Schum. and Thonn.) Daniell.
   Local name: Ununaa/Ununoo
   Family: Sapotaceae
   Life form: Shrub
   Part used: Fruits, leaves
   Specimen No: RH070
   Ethno-botanical uses: Leaves and fruits edible. Used to sweeten tongue especially during masquerade festival so as to drink even very sour palm wine which tastes sweet.

   Local name: Ujiri
   Family: Irvingaceae
   Life form: Tree
   Part used: Fruits, stem
   Specimen No: RH071
   Ethno-botanical uses: Testa of matured ripe fruits edible. Stems cut and used as chewing stick.

   Local name: Ogbono
   Family: Irvingaceae
   Life form: Tree
   Part used: Fruits, stem
   Specimen No: RH072
   Ethno-botanical uses: Testa of matured ripe fruits bitter not edible. Ground seeds used as soup condiment/thickener. Very economic, money yielding crop. Stems cut and used as chewing stick.
Table 1. Summary of the different Plant Families; their representative Genera and Species.

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<tr>
<th>S/No</th>
<th>Families</th>
<th>Total Genera</th>
<th>Number of Species</th>
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<td>Diabetes</td>
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<td>Daniellia oliveri</td>
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<td>Bombax buonopozense</td>
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<td><strong>Eye infections</strong></td>
<td>Dysentery/diarrrhoea</td>
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<td>Mental disorder</td>
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<td>Newbouldia laevis</td>
<td>Rothmannia whitfieldii</td>
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<td></td>
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<td>Worm expeller</td>
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73. Botanical name: *Citrus aurantifolia* (Christm.) Swingle
   Local name: *Ujiri nta/ oroma nkiri*
   Life form: Tree
   Family: Rutaceae
   Part used: Fruits, leaves, stem
   Specimen No: RH073

   Ethno-botanical uses: Fruit highly medicinal, added to various medicinal preparations. Used for stomach upset, clean bitter tongue/mouth especially during high fevers. Fruits cut in pieces and added mixed in boiled water with “lipton” teabags for fever treatment. Fruits cut and used to wash male organ after sex to prevent venereal diseases. Leaves and twigs boiled with other leaves for malarial treatment. Twigs also cut and used as chewing stick.

**DISCUSSION**

Majority of the different plants used by the people of Ogii have been documented as medicinal plants in other parts of Nigeria (Odugbemi 2006, 2008; Bhat et al. 1990; Kadiri et al. 2010; Sofowora, 1984, 1993; Obole et al. 2010; Ubom, 2010 amongst others), with few exceptions like the use of *Cleistopholis patens* in malarial treatment (B. O. Daramola, University of Lagos Herbarium, Oral communication).

Most of the respondents attested to the common use of *Strophanthus hispidus* as a “great medicine” used to strengthen others in medicinal preparations. Its action against heart problem could be due to the presence of a substances similar to the cardiac glycoside strophanthin which has been isolated from the ripe seeds of *S. kombe*, a variety of the Genus common in East Africa. This study has highlighted the common use of plants of the *Annonaceae* in malarial treatment which calls for further investigation. Possibly this plant family contains an active ingredient which could compete with other malarial drugs in effective treatment of the menace. Liu *et al.* (1990) had isolated a new alkaloid, 3-methoxysampangine in association with three already known alkaloids, eupolaridurine, lirodenine, and eupolaridurine N-oxide from the root bark of *Cleistopholis patens*. The new alkaloid had proved effective against the fungi *Candida albicans*, *Aspergillus fumigatus*, and *Cryptococcus neoformans*. Furthermore, Seidel *et al.* (1999) had also isolated partially acetylated tri- and tetrarhamnosidc dodecanoyl ether derivatives from its matured leaves. Possibly the antiplasmodial action attested to by the respondents could be caused by the presence of these elements, though further investigations using the stem bark which was what most respondents claim to use need to be carried out.

Some of the information gathered from the Ogii respondents agrees with those from other southeastern Nigerian villages revealing common use of these plants especially *Telfairia occidentalis*, *Gongronema latifolium*, *Elaeis guineensis* kernel extract in treating convulsion in children, *Ocimum gratissimum*, *Uvaria chamae*, *Denettia tripetala* and *Ricinus communis* (Obute, 2005; Okujugu, *et al.* 2008; Ibe, and Nwufo, 2005, amongst others).

An assessment of earlier workers when compared to the present revealed some areas in which the results are close indicating the common use of some of these plants in southeastern Nigeria, while for some like *Costus afer*, *Cleistopholis patens*, *Cola lepidota*, *Canarium schweinfurthii*, *Piper umbellatum*, *Burkea africana* and *Spondias mombin*, the information contained here from available literature are new to the knowledge of south
eastern Nigerian medicinal plants. Furthermore, the linking of *Burkea africana* and *Piper umbellatum* with the treatment of leprosy and tuberculosis is worth investigating going by the deleterious effects of the diseases on humanity. Since the Genera of organisms responsible for leprosy and tuberculosis are similar, the combined therapy of both plants should be tested on *Mycobacterium leprae* and *M. tuberculosis*. Annually, Nigeria spends a lot of foreign exchange on the importation of ergometrine derived from the ergot of rye (*Claviceps purpurea*) which is used medically for placental ejection after delivery and stoppage of bleeding, the respondents have pointed out the potentials of *Spondias mombin* in delivery of placenta after birth in goats. The need to verify this claim and possibly isolate a substance similar to ergometrine which would reduce the amount of money spent on importation will be a worthwhile research.

In response to Ayodele (2005) and Odugbemi (2008) assertions, the need for scientists to indulge in extensive research to ascertain whether what these locals have said concerning the medicinal properties of these plants were true need not be over emphasized. Okujagu et al. (2008) had made remarkable progress in testing and documenting the active ingredients such as alkaloids, flavonoids, saponins, phenols, etc present in some of these medicinal plants. Edeoga et al. (2005) had also investigated the active ingredients in *Sida acuta*, *Emilia coccinea*, *Cleome rutidosperma*, *Scoparis dulcis*, *Euphorbia heterophylla*, *Tridax procumbens*, *Richardia brasiliensis*, *Spigelia anthelmia*, *Physalis angulata*, and *Stachytarpheta cayennensis*. Steroids and phlobatannins were the most common ingredient they found of which steroids are useful in relation to sex hormones. Though Ogbonna et al. (2008) had investigated the antimalarial properties of selected herbs from southeastern Nigeria using only three out of the numerous plants associated with malarial treatment, majority of the plants they used were encountered in this study and the performance of *Nauclea latifolia* and *Enantia chloraranta* in vivo proves their efficacy as good malarial remedies thereby confirming the claims of the respondents. Aderounmu (2002) had also reported the efficacy of *Enantia chloraranta* together with *Cymbopogon giganteus*, *Azadirachta indica* and *Morinda lucida* in treating malaria caused by the most deadly malaria parasite *Plasmodium falciparum* (Krettli, 2001).

Obute and Adubor, 2007 had investigated the chemical constituents of about seventeen medicinal plants from southeastern Nigeria. They isolated phenols and flavonols which are the substances that confer these medicinal properties on these plants. Among the plants they studied that were encountered in this survey were *Vernonia amygdalina*, *Psidium guajava*, *Chromoleana odorata*, *Carica papaya*, *Telfairia occidentalis*, *Mangifera indica*, *Aspilia africana*, and *Newbouldia laevis*. Their findings justified the use of these plants in traditional medicine.

Though Ndubwu and Ben-Nwadibia (2005) had recorded *Xylopia aethiopica*, *Piper guineense*, *Piper nigrum*, *Piper umbellatum*, *Zingiber officinale*, *Tetrapleura tetraptera*, *Ocimum gratissimum*, *Dennettia tripetala* among spices used by Niger Delta people of Nigeria their other uses were slightly different from those of Ogii people. This study has shown more uses of these plants by the people of Ogii-Okiwe.

As the search for new drugs continues, other plant groups apart from the Angiosperms and Gymnosperms need to be investigated also. Nwosu (2002) had listed some pteridophytes of medicinal value in Southeastern Nigeria, hence the need to investigate, isolate and characterize the active ingredients these lower plants contain. Furthermore, the medicinal properties of fungi species especially mushrooms like *Ganoderma lucidum*, *Pleurotus tuberregium*, *Lentinus* spp., have also been reported (Ofodile et al. 2011; Zoberi, 1973). These are the popular ones, there are still over eight species of edible mushrooms from Southeastern Nigeria (U. Igboke, 2009, personal communication). This study has highlighted the economic importance of the listed plants and their contributions the general healthcare of the people of Ogii-Okiwe. Further studies on mostly herbs and more shrubs, is underway to add to the medicinal plants database of southeastern Nigeria and the whole country as a whole.

**ACKNOWLEDGEMENTS**

I grateful to the numerous men and women whom I interview and who responded to the questionnaire especially the two popular traditional medicine practitioners Nze Ugoaagbara Igboke and Mrs. Philomena Ohiaeri who patiently took me through the uses of each of the plants and also confirmed the statements of other respondents.

**REFERENCES**


APPENDIX 1

QUESTIONNAIRE

NAME OF RESPONDENT:

NAME OF PLANT: a) Local: ____________________________
               b) Scientific/Common: _______________________

SERIAL NUMBER: ____________________________

LIFE FORM: TREE □  SHRUB □  CLIMBER (LIANA) □  HERB □

RECOGNIZED BY RESPONDENT: YES □  NO □

KNOWN TO INVESTIGATOR: YES □  NO □

MEDICINAL: YES □  NO □

PART OF PLANT USEFUL:

AILMENT USED FOR:

OTHER USES: