# Ethnomedicinal Plants Used By the Idoma People- Benue State, Nigeria

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#### **ABSTRACT**

## Content and purpose of study

An ethno medicinal survey of plants used by the Idoma people of Benue State, Nigeria, was carried out using a structural questionnaire via oral interview with Traditional Medicine Practitioners (TMPs) and knowledgeable respondents by random sampling at different sites within the Local Government Area. Fifty knowledgeable respondents were consulted for information on the plants used for curative purposes.

## Main findings

A total of 63 plants belonging to 36 families were identified. Their botanical names, ailments treated, plant parts used, mode of administration and their pharmaceutical forms were provided. Some plants like *Azadirachta indica*, *Telferia occidentalis* and *Ocimum gratissimum* are used for the treatment of common ailments such as malaria, anemia and stomach upset respectively among the people.

## Brief summary and potential implication

The need to document, establish the cultivation and sustainable harvesting as well as incorporation of traditional medicinal plants into the primary health care system in Nigeria were also highlighted. The data were analyzed in the forms of 'specific flora' and 'general floral'. The selectivity of a plant for a specific ailment was done by comparing between the expected and observed values of the proportion of citation of a plant for a specific disease. The difference (D) between the two proportions was then used to define the performance index (*Ip*), which ranged from 0 to 3.

Keywords- Ethnomedicine, plants, Idoma tribe, Benue state, Nigeria.

## **INTRODUCTION**

Health and disease are measures of the effectiveness with which human groups. combining cultural and biological resources, adapt to their environment<sup>1</sup>. Every culture irrespective of its simplicity and complexity has its own beliefs and practices concerning diseases. The culture of a community determines its health culture. Health problems and practices of any community are profoundly influenced by interplay of complex social, economic and political factors. Due to the belief in supernatural elements and religion in matters concerning health, the tribals are almost invariably found to repose faith in traditional medicine men, sorcerers and shamans. However, tribals are not adverse in accepting western medicine whenever available<sup>2</sup>.

Ethnobotany and ethno-medical studies are today, recognized as the most viable methods of identifying new medicinal plants or refocusing on those earlier reported for bioactive constituents<sup>3</sup>. Plants have been of immense value to human health and roughly eighty percent of the world's populations rely on them for cure of various ailments<sup>4</sup>. The continual search for natural plant products used as medicines, has acted as a catalyst leading to the widespread use of traditional medicine throughout the world. Traditional medicinal practices today, are an important part of the primary health care delivery system in most of the developing world<sup>5</sup>. There is therefore, the need to understand the concept of traditional medicine if our health care delivery system within our society is to meet our health needs now and in the future<sup>6</sup>. This traditional African healing system has been many names like, known by medicine", "Native medicine", Herbal medicine" and "Ethnomedicine".

Ethnomedical scholars over the years have made several contributions to the development of the traditional medical

system in Nigeria. This they have done through ethnobotanical surveys, preliminary investigations of phytochemistry, microscopy and pharmacological trials on medicinal plants. Some of these ethno medical scholars include<sup>7-23</sup>.

From investigation, it is apparent that no documented information on the traditional medical system of Idoma people is available. Thus this present study was undertaken to fill the gap in the knowledge of folk medicinal practices among the Idoma people in Nigeria.

## MATERIALS AND METHODS

# Study Area

The investigated area is situated on latitude 6.8 and 7.0 degrees North and longitude 8.0 and 8.5 degrees East (see Figure 1).

## Method of Collection

Several field trips within six months were conducted in different sections of the Idoma land. At the end of the field trips, at least one village in each zone was covered. Different categories of people were visited and interviewed on the types of medicinal plants used in Idoma district of Benue State. Nigeria. Herbalists, traditional healers and elderly people who had some knowledge of the medicinal values of the plants were interviewed. Specific questions such as plants part used, dosage, preparation of drug and ailment for which the plant is use was asked and the information recorded. These people were followed into the bush for identification and collection of the plant parts. Surely, the Idoma uses more plants, but plants not personally observed and collected were not included in this study. Some such obvious ones are cultivated plants like wheat, maize, radish, beetroot, carrot, watermelon etc.

## Species Identification

Most of the plant species were identified through the professional assistance of Professor MacDonald Idu in the Department of Plant Biology and Biotechnology. Other plant species were identified with the aid of literatures which includes - A Handbook on West African Weeds<sup>24</sup>; Medicinal Plants of West Africa<sup>25</sup>; Trees of Nigeria<sup>26</sup>; Taxonomy of West African Flowering Plants<sup>27</sup> and Ethnomedicinal Uses of Plants in Nigeria<sup>15</sup>.

## Performance Index of Medicinal Plants

For analyzing the data, "specific flora" is defined as the list of plants used for treating a specific ailment, symptom or physiological effect. The "general flora" is defined as the total list of plants recorded to be used for all types of ailments among a specific group of Idoma people. The relationship between the "specific flora" and the "general flora" can be inferred as follows: if the use of a specific plant for a specific ailment is randomly selected, the proportion of the number of citations to the total number of citations (P1) would be similar to the proportion of specific flora to the general flora (P2). To illustrate the selectivity of a plant for a specific ailment, a comparison is made here between the expected and observed values of the proportion of citation of a plant for a specific disease. The difference (D) between the two proportions is then used to define a performance index (Ip), which ranges from 0 to 3 according to the following arbitrary scale.

- if P1 P2 < 0, *Ip* = 0: the plants concerned are rejected, not significant;
- if  $0 < P1 P2 \le 1/3$ , Ip = 1: average performance;
- if  $1/3 < P1 P2 \le 2/3$ , Ip = 2: high performance;
- if P1 P2 >2/3, Ip = 3: very high performance;

## RESULTS

Information was obtained for 63 plant specimens. These represent 63 different plant species, distributed in 36 plant families. The following list enumerates the plant with respect to the families and genera within the families. Furthermore, information on folk medicinal plants investigated during the present survey along with their families, botanical names, local names, parts used, usages and biodynamic notes. The botanical names alphabetically arranged. A total of 50 Idoma households were surveyed. From this survey, a total of 63 plant species were collected. A total of 1801 citations were recorded for 51 ailments and other health problems. Some prescriptions are made from a combination of two or three plant species as shown in table 1 below.

## Associated plants

Plants which are prescribed together with other plant(s) for the same prescription. For example, to threat malaria, one informant proposed to prepare (boil) together the stem barks of Mangifera indica, Anacardium occidentale, Carica papaya, and Chromolaena odorata and drink the decoction. For treating diarrhea, another person proposed to boil together the stem barks of Mangifera indica with Psidium guajava and drink the decoction.

Table 2 shows the medicinal plants used by the Idomas for the treatment of various ailments, the various plant families and their natural habitats of each of them.

Table 3 shows the ailments each plant discovered in the course of this study is use in treating alongside the number of persons interviewed (homes and traditional practitioners) that mentioned them to be used for the treatment they are said/known to remedy.

Table 4 shows the index of Performance of Medicinal Plants Used by the Idoma People in Benue State, Nigeria

## **DISCUSSION**

The medicinal plants have been used since ancient times for the treatment of human ailments<sup>28</sup>. There is ample evidence that increasing numbers of people across various parts of the world depend on traditional herbal remedies for their health care. The local uses of plants and products in health care are even much higher in particularly those areas with little or no access to modem health services<sup>29</sup>.

This present study indicates that for the Idoma people, traditional medicine has wide acceptability and a long history. Indeed, majority of the people use these medications at one time or another and this presupposes the efficacy and safety of plant materials used in ethno medicines. However, of the sixty three (63) plants reported, some of them were used in treating the same ailment or category of ailment like Azadirachta indica, Anacardium occidentale, Anthocleista djalonensis, Carica papaya were used for the treatment of common ailments such as malaria. Others are Ocimum gratissimum, Musa sapientum and Elaeis guineensis which were used in treating stomach disorders; Momordica charantia for diabetes. For wound treatment, Musa sapientum and Dioscorea dumetorum: occidentalis Telfairia and Jatropha tanjorensis were used in boosting the blood (Tables 1,2 and 3). Despite the similar usage, each of the plant had different recipes and is used singly.

Also, some of the plants were used with other plant species, like bitter leaf (Vernonia amygdalina) used with scent leaf (Ocimum bassilicum) against skin problems. It was observed in the study that the collected 63 plant species were used in treating 51 ailments (Table 3). The collected

plants are believed to cure different categories of ailments viz. digestive system disorders, skin diseases, gynecological and childbirth problems, respiratory system disorders, heart disease, eye problem, circulatory, urinary and nervous disorders, fevers, ailments of the bone and muscular system, bites, wounds, sores, cuts, convulsion, sore throat and loss of appetite.

The administration of the plant was either internally or externally in the form of juice, decoctions, pastes, infusions or raw as single drugs. Of the various plant parts used the leaves was mostly used followed by stem bark, fruits, root tubers, seeds and roots (Table 4). Two families - Fabaceae and Euphorbiaceae was observed to be the most dominant families with five and four plants respectively while Anacardiaceae, Asteraceae. Cucurbitaceae. Malvaceae. Moraceae and Musaceae had two plants each. This study therefore, on 63 medicinal plants used by Idoma people for the treatment of various ailments can possibly be used as a potential source for making herbal medicines against some diseases and can be treated as a document for preserving the ethno medicinal knowledge for posterity. The ethno pharmacology survey showed that medicinal plants are still widely used by the population in the area where the study was conducted. The recorded plants are grown over an extended area and are used by healers separated by long distances. This may explain the many different types of uses observed. The healers' consensus in the treatment of the main reported diseases is fairly high, giving an additional validity to the plants as a traditional remedy.

This study complements the ongoing activities of evaluation of different uses of medicinal plants and the development of new Improved Traditional Medicine by the Phytomedicine unit of the Department of Plant Biology and Biotechnology in University of Benin. The performance index analytical studies was

carried on these plants in order to ascertain the effectiveness as well as the possible recommendation of the plants followed by designing therapeutic strategies based on the most effective and least reliable plants. Further studies in this direction are needed in future to document the information on other available medicinal plants used by the Idoma people for the treatment of various other diseases prevalent among them. It is hoped that this information will be of use in planning for future research in this direction.

## **CONCLUSION**

The ethno pharmacology survey showed that medicinal plants are still widely used by the population in the study area. It allowed us to report 51 different diseases or ailments treated by the sixty three medicinal plants included in this survey. Several types of preparations of these plants were used. The plants grow over an extended area and are used by healers separated by long distances. This may explain the many different types of uses observed. The healers' consensus in the treatment of the main reported diseases is fairly high, giving an additional validity to the plants as a traditional remedy.

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#### Author's contribution

Idu M conceived of the study, and participated in its design. Himself and EO

Joseph spare headed the ethnobotany work. They travelled to Benue state, visited and interviewed the respondents in the course of this study while Ovuakporie- Uvo O helped to sort the information obtained from the survey, draft the manuscript and put the American Journal draft in the of Ethnomedicine publication format. All authors read and approved the final manuscript.

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 Table 1. Citations of Medicinal Plants in the Households among the Idoma People

Ail	Scientific name of plant	Associated plant	Pl-part	Phar	Adm	Hh
Boi	Acanthus montanus		fr	ju	rob	2
Cou	Acanthus montanus		le	ma	dri	3
Dia	Ageratum conyzoides	with Stachytarpheta indica, Sorghum bicolor	le	со	dri/ bat	6
Hiv	Ageratum conyzoides		le	ma	dri	1
Ulc	Ageratum conyzoides		le	ma	dr	1
Fev	Alchornea cordifolia		le	СО	dri	2
Dia	Allium sativum		bu	mas	mas	2
Antc	Allium cepa		bu	mas	mas	1
Sti	Allium cepa		bu	mas	mas	2
Cat	Aloe vera		le	ma	dro	3
Cons	Aloe vera		le	ma	rob	1
Dia	Anacardium occidentale.		st-ba	со	dri	9
Diar	Anacardium occidentale.		st-ba	со	dri	3
Abp	Anacardium occidentale.		st-ba	со	dri	2
Snb	Anacardium occidentale.		st-ba	ma	dri	2
Mal	Anacardium occidentale.	With Mangifera indica, carica papaya, Chromolaena odarata.	st-ba	со	dri	12
Tub	Anacardium occidentalis	with <i>Khaya ivorensis</i>	st-ba	со	dri	3
Coc	Ananas comosus		fr	de	dri	14
Coc	Anthocleista djalonesis		st-ba	de	dri	1
Fev	Anthocleista djalonesis		le	ma	dri	2
Mal	Anthocleista djalonesis		ro-ba	ma	dri	4
Dys	Antrocaryon klaineanum	with B. micrantha, Treculia Africana	st-ba	de	dri	1
Cho	Azadirachta indica	with Ocimum gratissimum	le	ma	dri	17
Dia	Azadirachta indica		st-ba	ma	dri	5
Mal	Azadirachta indica		yo-le	ma/ma s	dri	13
Dys	Bridelia micrantha	with Antrocaryon klaineanumand Treculia Africana	st-ba	de	dri	1
Cou	Bridelia micrantha	with Capsicum frutescens	st-ba	ma	dri	4
Umc	Bryophyllum pinnatum		ju	inf	dro	7
Ear	Bryophyllum pinnatum		le	ma	dri	2
Cou	Capsicum frutescens	with <i>Bridelia micrantha</i>	fr	ma	dri	3
Mal	Carica papaya	with Ananas comosus	fru	ma	dri	11
Fev	Carica papaya	with Ananas comosus	fru	ma	dri	4
Coc	Carica papaya	with Ananas comosus	fru	ma	dri	2
Lac	Ceiba pentandra		st-ba	de	dri	2
Mal	Chromolaena odarata	with Mangifera indica	le	со	dri	9
Wou	Chromolaena odarata		le	mas	rob	5
Cata	Citrus aurantifolia		le	ma	rob	9

Pim	Citrus aurantifolia		fr	inf	rob	8
Ski	Citrus aurantifolia		fr	inf	rob	9
Jau	Citrus limon		fr	ma	dri	3
Eas	Cochorus olitorius		le	ma	dri	4
Inf	Cochlospermum planchoni	with Tetrapleura tetraptera	ro	ma	dri	1
Mea	Cola acuminata	with Jatropha tanjorensis, Senna alata	se	со	eat	4
Art	Cola laurifolia		se	mas	mas	5
Sex	Costus lucanuscianus		le	inf	dri	3
Too	Daniella oliveri		le	inf	to-in	2
Dia	Dialium guineense		le	inf	dri	2
Abp	Dracaena arborea		le	ma	dri	6
Antc	Elaeis guineensis		fr	inf	dri	2
Ear	Elaeis guineensis		yo-le	in	dro	5
Head	Elaeis guineensis	with <i>Scleria boivinii</i>	se	s-oil	rob	2
Cos	Fuirena ciliaris		se	no	bea	3
Sna	Funtumia elastica		sa	no	rob	2
Ana	Gossypium hirsutum		yo-le	de	dri	4
Mea	Gossypium hirsutum	with <i>Ocimum gratissimum</i>	yo-le	СО	eat	2
Too	Gossypium hirsutum		jui	inf	was	3
Fev	Irvingia gabonensis		ro-ba	со	dri	2
Too	Irvingia gabonensis		st	no	che	4
Mea	Jatropha tanjorensis	with <i>Ocimum gratissimum</i>	yo-le	ma	eat	4
Sca	Jatropha tanjorensis		le	ma	dri	4
Tub	Khaya ivorensis	with Anacardium occidentale	st-ba	со	dri	3
Cos	Lawsonia inermis		le	ро	ext	4
Mal	Mangifera indica	With Anacardium occidentale, carica papya	st-ba	со	dri	14
Fev	Mangifera indica	With Anacardium occidentale, Musa paradisiaca, Carica papaya.	st-ba	со	dri	11
Ear	Manihot esculenta		tu	inf	dro	3
Dia	Momordica charantia		fr	СО	dri	2
I-hel	Musa paradisiaca		fr	СО	dri	7
Fev	Musa paradisiaca	With Anacardium occidentale, Mangifera indica, Carica papaya.	d-le	со	dr	11
Fev	Musa sapientum	with Mangifera indica, Anacordium occidentalis	dr-le	со	dri	7
Wou	Musa sapientum		le	inf	rob	2
Epi	Newbouldia laevis		le	СО	dri	2
Antc	Nicotiana tabacum		le	mas	dri	1
Cou	Ocimum gratissimum		le	ро	dri	12
Gon	Ocimum gratissimum	Associated with Vernonia amygdalina	le	inf	rob	5
Stp	Ocimum gratissimum	with salt	le	ma	dri	12

Sex	Ocimum gratissimum	with Vernonia amygdalina	le	ma	dri	2
Sna	Palisota ambigua		st	ро	rob	2
Ear	Pandanus candelabrum		le	inf	dro	1
Rhe	Piper guineense	with <i>Palisota hirsute +</i> extracter (alcohol or 7up)	fr	dec	dri	3
Fev	Psidium guajava	With Carica papaya, Mangifera indica	le	со	dri	6
Mal	Psidium guajava	With Chromolaena odorata,	le	со	dri	2
Lac	Pycnanthus angolensis	With Solanumanguivi	fr	de	dri	3
Head	Scleria boivinii	with <i>Elaeis guineensis</i>	ro	as	rob	3
Mis	Senna alata	With Jatropha tanjorensis, Cola acuminata	yo-le	со	dri	4
Con	Senna occidentalis		le	СО	bat	4
Sca	Senna podocarpa		le	mas	rob	5
Fun	Sida acuta		le	inf	rob	9
Head	Sida acuta		le	ma	rob	1
Wou	Sida acuta		le	inf	rob	1
Lac	Solanum anguivi	with Pycnanthusangolensis	fr	de	dri	3
Pil	Solanum tuberosum		tu	ma	rob	1
Ski	Solenostemon monostachyus		le	inf	rob	1
Ana	Telfairia occidentalis		yo-le	ma	dri	3
Sna	Terminalia superba		st-ba	de	dri	4
Inf	Tetrapleura tetraptera	With Cochlospermumplanchoni	le	ma	dri	1
Dys	Treculia Africana	with <i>Bridelia stenocarpa</i>	st-ba	de	dri	1
Gon	Vernonia amygdalina	with <i>Ocimum gratissimum</i>	le	inf	rob	14
Ski	Vernonia amygdalina	with <i>Ocimum gratissimum</i>	le	inf	rob	9
Sca	Vernonia amygdalina	with <i>Ocimum gratissimum</i>	le	ma	Rob	7
Stp	Vernonia amygdalina	with salt	yo-le	ma	Dri	3
Bil	Zingiber officinale		tu	Scr	Mas	2
Eas	Zingiber officinale		le	scr	Dri	2

**Hh** = number of households where the specific usage (a citation) was cited

Ailments (Ail): Abp = Abdominal pain; Ana = Anaemia; Ant = Antidote; Antc = Anticonvulsion; Art = Arthritis; Bil = Bilhazia; Boi = Boils; Cat = Cataract; Cata = Catarrh; Chp = Chicken pox; Cho = Cholera; Coc = Common cold; Cons = constipation; Con = Contraceptive; Cos = Cosmetic; Cou = Cough; Cui = Cuisine; Dia = Diabetes; Diar = Diarrhoea; Dob = Dog bite; Dys = Dysentery; Ear = Ear-ache; Eas = Easy labour; Epi = Epilepsy; Fev = Fever; Fil = Filariasis; Fun = Funaria; Gon = Gonorrhoea/Syphilis; Hea = Head ache; Hiv = HIV/AIDS; Hyp = Hypertension; Inf = Infertility; Ins = Insecticide; I-hel = Intestinal helminthiasus; Jau = Jaundice; Lac = Lactation failure; Mal = Malaria; Mea = Measles; Mis = Miscarriage; Nau = Nausea; Ost = Osteoarthritis; Pil = Piles; Pim = Pimple; Poi = Poisons; Prp = Pregnant pain; Pur = Purgatives; Rhe = Rheumatism; Sca = Scabies; Sex = Sexual dysfunction; Ski = Skin infections; Ssc = Skin surface cleaning; Snb = Snake bite; Sps = Spider stings; Stm = Stimulant;

Stp = Stomach pains; Too = Toothache; Tub = Tuberculosis; Typ = Typhoid; Umc = Umbilical Cord; Vet = Veterinary; Ven = Venereal disease; Wai = Waist pain; Wou = Wound.

Major habitats= Sa = Swamp area;  $C_p = Cultivated$  plant;  $F_1 = Primary$  forest;  $F_2 = Secondary$  forest;  $O_p = Ornamental$  plant.

**Plant part (Pl-part):** bu = bulb; d-ba = dried bark; dr-le = dried leaf; flo = flower; fr = fruit; le = leaf; ro = root; ro-ba = bark of the root; sa = sap; se = seed; sp = spine; st = stem; st-ba = bar of the stem; tu = tuber; wo = wood; yo-le = young leaf.

**Pharmaceutical form (Phar):** as = ash; co = cooking; de = decoction; inf = infusion; ju = juice; ma = maceration (soak); mas = masticated; p-oil = palm oil; po = pounding; scr = scraping; scr + wa = scraping and warming; s-oil = seed oil; tr = tritured; no = not prepared.

**Mode of administration (Adm):** bat = general bath; dri = drinking; dro = dropping juice on part; eat = eating as soup; mas = mastigating orally; rob = robbing on the infected part; to-in = instillation in the teeth.

**Table 2.** Medicinal Plants Recorded among the Idoma and their Habitats

Plant species	Family	Major Habitat
Acanthus montanus(Nee) T. Andus	Acanthaceae	F <sub>2</sub>
Ageratum conyzoides Linn.	Asteraceae	F <sub>2</sub>
Alchornea cordifolia	Euphorbiaceae	F <sub>2</sub>
Allium sativum L	Liliaceae	$C_p$
Allium cepa L.	Liliaceae	$C_p$
Aloe vera (L.) Burm f.	Asphodelaceae	$O_p$
Anacardium occidentale L.	Anacardiaceae	$C_p$
Ananas comosus (L) Merr.	Bromeliaceae	$C_p$
Anthocleista djalonensis A. Cheve.	Loganiaceae	$O_p$
Antrocaryon klaineanum Pierre	Anacardiaceae	F <sub>1</sub>
Azadirachta indica A. Juss.	Meliaceae	Op
Bridelia micrantha (Hochst) Baill.	Euphorbiaceae	<b>F</b> <sub>1</sub>
Bryophyllum pinnatum (Lam) Oken.	Crassulaceae	F <sub>1</sub>
Capsicum frutescens L.	Solanaceae	Op
Carica papaya L.	Caricaceae	$C_p$
Ceiba pentandra (L.) Gaertn	Bombacaceae	F <sub>2</sub>
Chromolaena odarata (L.)R. M. King & Robinson	Asteraceae	F <sub>1</sub>
Citrus aurantifolia (Christm.) Swingle	Rutaceae	$C_p$
Citrus limon (L.) Burm. F.	Rutaceae	C <sub>p</sub>
Corchorus olitorius L.	Tiliaceae	F <sub>1</sub>
Cochlospermum planchonii Hook. f.	Cochlospermaceae	$C_p$
Cola acuminata (P. Beauv.)Schott & Endl.	Sterculiaceae	C <sub>p</sub>
Cola laurifolia Mast.	Sterculiaceae	C <sub>p</sub>
Costus lucanuscianus L.	Zingiberareae	F <sub>1</sub>
Dialium guineense Willd.	Caesalpinioideae	F <sub>2</sub>
Daniella oliveri (Rolfe) Hutch & Dalz.	Caesapiniodeae	Op
Dracaena arborea (Willd.) Link	Agavaceae	F <sub>1</sub>
Elaeis guineensis Jacq	Palmaceae	C <sub>p</sub>

Fuirena ciliaris (Linn) Roxb.	Cuperaceae	C <sub>p</sub>
Gossypium hirsutum L.	Malvaceae	Op
Irvingia gabonesis (AubLec. Ex O'R) Bail.	Irvingiaceae	C <sub>p</sub>
Jatropha tanjorensis Ellis & Sarojo	Euphobiaceae	Op
Lawsonia inermis Linn	Lythraceae	F <sub>1</sub>
Khaya ivorensis A. Chev.	Maliaceae	F <sub>1</sub>
Mangifera indica L.	Anacardiaceae	C <sub>p</sub>
Manihot esculenta Crantz	Euphorbiaceae	C <sub>p</sub>
Momordica charantia L.	Cucurbitaceae	Sa
Musa sapientum(L)	Museaseae	C <sub>p</sub>
Musa paradisiaca L.	Museaseae	C <sub>p</sub>
Newbouldia laevis(P. Beaur)	Bignonaceae	Op
Nicotiana tabacum L.	Solanaceae	Op
Ocimum gratissimum L.	Lamiaceae	Op
Palisota hirsuta (Thunb.) K. Schum	Commenlinaceae	F <sub>1</sub>
Pandanus candelabrum P. Beauv.	Pandanaceae	F <sub>1</sub>
Piliostigma thonningii (Schum.) Milne-Redhead	Caesalpinioideae	F <sub>1</sub>
Piper guineense Schum & Thunn.	Annonaceae	Sa
Psidium guajava L.	Myrtaceae	C <sub>p</sub>
Senna alata (L) Roxb.	Fabaceae	F <sub>1</sub>
Senna occidentalis Linn.	Fabaceae	F <sub>2</sub>
Senna podocarpa Guill & Perr	Caesalpinoideae	F <sub>2</sub>
Sida acuta Burn.	Malvaceae	Op
Solanum tuberosum	Solanaceae	C <sub>p</sub>
Solenostemon monostachyus	Labiatae	F <sub>1</sub>
Telfairia occidentalis Hook. f.	Cucurbitaceae	C <sub>p</sub>
Tetrapleura tetraptera (Schumacher & Thonn.) Taub.	Mimosaceae	C <sub>p</sub>
Vernonia amygdalina Del.	Asteraceae	C <sub>p</sub>
Zingiber officinale Roscoe Engl	Zingibaraceae	C <sub>p</sub>

**Table 3.** Ailments Recorded in the Interviews with the Idoma People

Group of Ailments	Ailments	Number of Citations
	Epilepsy	1
	Hypertension	4
Cardiovascular system	Stimulant	2
	Convulsion	4
	Cataract	7
	Cholera	19
	Dysentery	17
	Diarrhoea	21
Digestive system	Diabetes	26
	Stomach pain	132
	Purgatives/Laxative	12
	Intestinal helminthiasus	1
Famala ganital systems	Lactation failure	4
Female genital system: obstetrics and	Contraceptive	9
	Miscarriage	32
gynaecology	Easy labor	97
	Gonorrhea	25
Male genitor-urinary	Syphilis	21
system	Sexual dysfunction	56
	Infertility	34
	Rheumatism	96
Musculo-skeletal system	Waist pains	104
·	Osteoarthritis	4
	Bilharzias	2
	Boils	26
	Chicken pox	7
	Cold	67
Parasitic diseases	Fever	243
	Filariasis	1
	HIV/AIDS	1
	Malaria	97
	Measles	3
	Typhoid	43
	Scabies	76
	Skin infections	66
	Toothache	33
	Piles	11
Posniratory system	Cough	207
Respiratory system	Tuberculosis	7
	Snake bite	32
Specific conditions	Poison	12
Specific conditions	Spider stings	6
	Dog bite	9
Specific symptoms	Anemia	3
Specific symptoms	Wounds	72

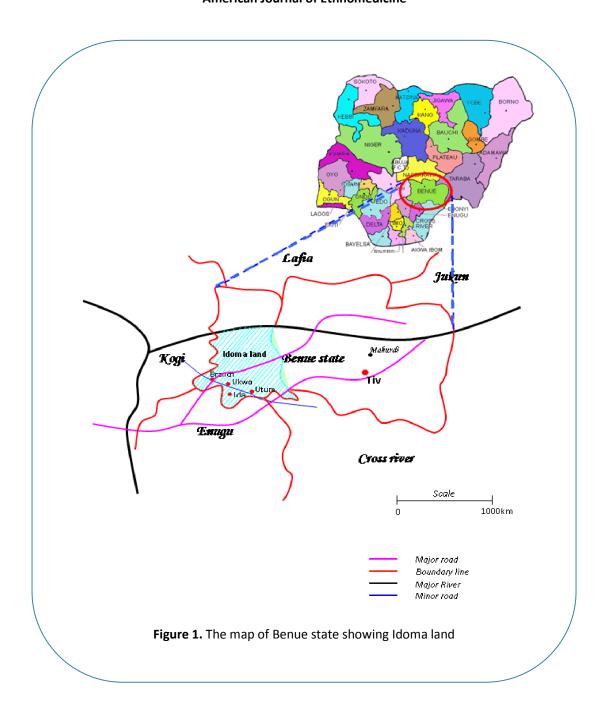
	Ear-ache	54
	Head ache	31
	Veterinary	1
	Insecticide	3
Special cases	Cuisine	1
	Antidote	1
	Cosmetic	2
Total number of		1801
citations		1501

Table 4. Index of Performance of Medicinal Plants Used by the Idoma People in Benue State, Niger

	Anaemia	Bilhazia Roils	Catarrh	Cataract	Constipation	Cholera	Common cold	Contraceptive	Cosmetics	Convulsion	Cough	Diabetes	Diarrhoea	Dog bite	Dysentery	Ear-ache	Easy labour	Epilepsy	Fever	Filariasis	Gonorrhoea	Head ache	HIV/AIDS	Hypertension	Intectinal helminthiasus	lamplice lample	Lactation failure	Malaria	Miscarriage	Measles	Osteoarthritis	Pimples	Piles	Poison	Rheumatism	Scabies	Sexual dysfunction	Skin infections	Snake bite	Spider stings	Stimulant	Stomach pain	Syphilis	Toothache	Tuberculosis	Waist pains	Wounds	Veterinary		Total number of citation
Acanthus montanus	0	0 2	2 0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) !	5
Ageratum conyzoides	0	0 0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 2	2 0	) {	8
Alchonea cordifolia	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) [	2
Allium sativum	0	0 0	0 0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) [	2
Allium cepa	0	0 0	0 0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	2	0	0	0	0	0 (	0 0	0 0	) [	1
Aloe vera	0	0 0	0 0	) 2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) ,	4
Anacardium occidentale.	0	0 0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	3	0	0	0	0	0	0 (	o c	0	0	0	1	0	0	2	0	0	0	0	0 0	0 0	) 2	24
Ananas comosus	0	0 0	0 0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) 1	L4
Anthocleista djalonensis	0	0 0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0 0	0	0 0	2	0	0	0	0	0	0 (	o 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) [	7
Anthocleista djalonensis	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0 0	) (	0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) :	1
Azadirachta indica	0	0 0				2	0	0	0			_	0	0	0		0	0	0	0	0	0	_	_		) (		_		0			_	0 (	_	_		0	-	0				_	_		0 0	0 0	) 3	35
Bridelia micrantha	0	0 0	0 0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0 (	) (	0 (0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) !	5
Bryophyllum pinnatum	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) !	9
Capsicum frutescens0	0	0 0	0 0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 (0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) [	3
Carica papaya	0	0 0	0 0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0 (	) (	0 0	3	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) 1	L7
Ceiba tandra	0	0 0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	) 2	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) [	2
Chromolaena odarata	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	2	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	3 0	0 0	) 1	L4
Citrus aurantifolia	0	0 0	) 2	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	3	0	0 (	0 0	0	0	3	0	0	0	0	0	0	0	0	0 0	0 0	) 2	26
Citrus limon	0	0 0	0 0	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) 2	2 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) [	3
Cochorus olitorius	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) _ /	4
Cola acuminata	0	0 0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	3	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) /	4
Cola laurifolia	2	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) [	5
Costus lucanuscianus	0	0 0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	3	0	0	0	0	0	0	0	0	0 (	0 0	0 0	) [	3
Daniella oliveri	0	0 0				0	0	0	0				0	0	0	0	0	0	0	0	0	0	0		0 (		0 0	0		0	0	0	0	0 (	0 0	0	0	0		0					0		0 0	0 0		2
Dracaena arborea	0	0 0	0 0	0	0	0	0 ;	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	) (	6

	Anaemia	Bilhazia	Boils	Catarrh	Cataract	Constipation	Cholera	Common cold	Contraceptive	Cosmetics	Convulsion	Cougn	Diabetes	Dog hite	Dysentery	Ear-ache	Easy labour	Epilepsy	Fever	Filariasis	Gonorrhoea	Head ache	HIV/AIDS	Hypertension	Infertility	halminthiseue	Jaundice	Lactation familie	Miscarriage	Measles	Pimples	Piles	Poison	Purgatives/Laxative	Rheumatism	Scabies	Sexual dystunction	Snake bite	Spider stings	Stimulant	Stomach pain	Syphilis	Toothache	Tuberculosis	Waist pains	Wounds	Ulcer Veterinary	Total number of citation
Eleais guineensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	3	0	0	0	0	0	3	0	0	0	0	0 (	0	0 (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	9
Funtumia elastica	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	0 0	0	0	0	0	0	0	0 (	) 2	2 0	0	0	0	0	0	0	0	0 0	2
Fuirena ciliaris	0	0	0	0	0	0	0	0	0	2	0	0	0	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	3
Gossypium hirsutum	3	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	0 0	0	0	0	0	2	0	0 (	0 0	0	0	0	0	3	0	0	0	0 0	9
Irvingia gabonesis	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0	0	2	0	0	0	0	0	-	0	0 (	0	0 (	0 0	_	_	0	0	0	0	0 (	0 0	0	0	0	0	2	0	0	0	0 0	6
Jatropha tanjorensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0	0	0	0	0	0	0	0	-	0	0 (	0	0 (	) 3	0	0	0	0	0	2	0 (	0 0	0	0	0	0	0	0	0	0	0 0	8
Khaya ivorensis	0	0	0	0	0	0	0	0	0		-	_	_	0 (	_	_	_	Ŭ	0	0	0	0	0	0	-		0 (	_	0 (	_		_	0	0		0	_	0 0		Ť	0	_	0	3	0		0 0	
Lawsonia inermis	0	0	0	0	0	0	0	0	0	3	0	0	0	0 (	) (	0	0	0	0	0	0	0	0	0	-	0	0 (	0	0 (	) (	0	0	0	0		0	0 (	0 0	0 (	0			0	0	0	0	0 0	
Mangifera indica	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0	0	3	0	0	0	0	0	0	0	0 (	0	3 (	) (	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	25
Manihot esculenta	0	0	0	0	0	0	0	0	0		-	0	0	0 (	0	2	0	0	0	0	0	0	0	0	-	0	0 (	0	0 (	) (	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	3
Momordica charantia	0	0	0	0	0	0	0	0	0	0	0	0	2	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	2
Musa parasidiaca	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	3	0	0	0	0	0	0	2	0 (	0	0 (	0 0	0	0	0	0	0	0	0 (	0 0	0 0	0	0	0	0	0	0	0	0 0	18
Musa sapientum	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0	0	3	0	0	0	0	0	0	0	0 (	0	0 (	) (	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	3	0 0	9
Newbouldia laevis	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	2	0	0	0	0	0	0	0	0	0 (	0	0 (	0 0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	2
Nicotiana tabacum	0	0	0	0	0	0	0	0	0	0	1	0	0	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	0 0	0	0	0	0	0	0	0 (	0 0	0 (	0	0	0	0	0	0	0	0 0	1
Ocimum gratissimum	0	0	0	0	0	0	0	0	0	0	0	3	0	0 (	0	0	0	0	0	0	2	0	0	0	0	0	0 (	0	0 (	) (	0	0	0	0	0	0	0 :	1 0	0	0	3	0	0	0	0	0	0 0	31
Palisota ambigua	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	0	0	0	0	0	0	0	0 (	) 2	2 0	0	0	0	0	0	0	0	0 0	2
Pandanus candelabrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	1	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	0 0	0	0	0	0	0	0	0 (	0	0	0	0	0	0	0	0	0	0 0	1
Piper guinense	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	0 0	0	0	0	0	2	0	0	0 0	0 (	0	0	0	0	0	0	0	0 0	3
Psidium guajava	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	3	0	0	0	0	0	0	0	0 (	0	2 (	0 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	8
Pycnanthus angolensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0 (	) C	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	3
Scleria boivinii	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0	0	0	0	0	0	3	0	0	0	0	0 (	0	0 (	) (	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	3
Senna alata	0	0	0	0	0	0	0	0	2	0	0	0	0	) (	) (	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 2	2 0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	4
Senna occidentalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0 (	0	0 (	) (	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0 0	4
Senna podocarpa	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	) (	0	0	0	0	0	0	0	0	0		0	0 (	0	0 (	) (	0	0	0	0	0	2	0 (	0 0	0	0	0	0	0	0	0	0	0 0	5

	Анаенна	BIINazia	Boils	Catarrh	Cataract	Constination	Cholera	Common cold	Contracentive	Cosmetics	Convulsion	Cough	Diahetes	Diarrhoea	Dog bite	Dysentery	Ear-ache	Easy labour	Epilepsy	Fever	Filariasis	Gonorrhoea	Head ache	HIV/AIDS	Hypertension	Infertility	Intestinal helminthiasus	Jaundice	Lactation failure	Malaria	Miscarriage	Wieasies Pimplos	Filliples	Poison	Purgatives/Laxative	Rheumatism	Scables	Sexual dysfunction	Skin infections	Snake bite	Stimulant	Stomach pain	Syphilis	Toothache	Tuberculosis	Waist pains	Wounds	Ulcer	Veterinary	Total number of citation
Sida acuta	0	0	0	0	C	) (	) (	) (	0 0	0	0	0	) (	0 0	0	0	0	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0 (	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	11
Solanum anguivi	0	0	0	0	0	) (	) (	) (	0 0	0	0	0	) (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0 (	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Solanum tuberosum	0	0	0	0	C	) (	) (	) (	0 0	0	0	0	) (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 1	1 (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Solenostemon monostachyus	0	0	0	0	C	) (	) (	) (	0 0	0	0	0	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Telfairia occidentalis	2	0	0	0	C	) (	) (	) (	0 0	0	0	0	) (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Terminalia superba	0	0	0	0	C	) (	) (	) (	0 0	0 (	0	0	) (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 (	) (	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	4
Tetrapleura tetraptera	0	0	0	0	C	) (	) (	) (	0 0	0	0	0	) (	0 0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	0	0	0	0 (	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Treculia africana	0	0	0	0	C	) (	) (	) (	0 0	0 (	0	0	) (	0 0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Vernonia amygdalina	0	0	0	0	C	) (	) (	) (	0 0	0	0	0	) (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 (	) (	0	0	2	0	3	0	0	2	0	0	0	0	0	0	0	33
Zingiber officinale	0	3	0	0	C	) (	) (	) (	0 0	0 (	0	0	) (	0 0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (	0 (	) (	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total number of citation	3	2	26	7	7	, ,	19	61	6	2	4	207	26	21	6	17	54	97	1	243	1	25	31	1	4	34	1	9	4	97	32	ν <	t [	17	12	96	92	99	99	32	2	132	21	33	7	104	7/	7	H	1801



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