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Medicinal Herbs Used for Managing Some Common Ailments among Esan People of Edo State, Nigeria

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Abstract: Medicinal herbs used for managing some common ailments in Esanland, Edo State, Nigeria were investigated in this study. The Esan people have a rich cultural heritage, which is reflected in the well-developed herbal medicine used to cure and manage various disease conditions. Herbal medicine offered remedies to common ailments ranging from common cold to complex pathological disorders including those relating to the respiratory, circulatory and genito-urinary systems. Seventy herbal plants used in 115 different methods or preparation were identified. About 83% of the herbal preparations were given orally, while 17% were applied topically. The aerial parts of the plants (84%) were most frequently administered in the form of decoctions. Some of the herbs also form part of their diets and include: *Talinum trangulare*, *Boerhavia diffusa*, *Euphorbia hirta*, *Gongronema latifolium* and *Aframomum melegueta*. It can be concluded that medicinal herbs have played and will continue to play major roles in the management of common diseases in these communities.

Key words: Medicinal herbs, common ailments, Esanland

Introduction

All civilizations have always had traditions of using herbs to promote healing. Plants still remain the basis for development of modern drugs and medical plants have been used for years in daily life to treat diseases all over the world (Ates and Erzdogrul, 2003). According to Ayitey-Smith (1989), traditional medicine evolved from environmental resources, which the people of a community adapted in desperation for survival from disease. On the African continent, traditional medical practices date as far back as 4000 years. It was the sole medical system for health care before the advent of orthodox or modern medicine. Even in this present technological era, traditional medicine is still the predominant means in the third world for the preservation of health of the rural majority who constitute over 70% of the total population.

According to Gbile and Adesina (1986), the Nigerian flora has made and would continue to make great contributions to health care of Nigerians. In fact the indigenous medicinal plants form an important component of the natural wealth and culture of Nigeria. The present survey was carried out in twenty-one selected communities in Esanland, an ethnic group located in Edo State, Nigeria. The communities studied include: Ahia, Amahor, Amendokhian, Egoro-Naoka, Eko-Ibadin, Ekpoma, Ekpon, Emu, Ewatto, Ibore, Obeidu, Obieromu, Ohordua, Opoji, Ubiaja, Ugbiyokho, Ugbegun, Ukhun, Uwalor, Uromi and Udo. The communities are semi-urban or rural and depend on traditional medicine or the few government and private

hospitals for providing solutions to their health problems. Only five of the communities studied have functioning Government General Hospitals with Medical officer in charge while the rest make do with Primary Health Care Centres headed by a nurse, midwife or a Matron. The rich culture of these areas is reflected in their well-developed herbal medicines/preparations not only as the first remedy for poor health but also in some chronic disease conditions. The objective of the present investigations is to document the uses of indigenous plants for posterity, prior to their possible elimination through urbanization, social development and deforestation. It is also hoped that the publication will stimulate interest for further research in medicinal plant (s) and the ailments for which they are used with the purpose of developing potential drugs for some common diseases.

Materials and Methods

The information about the local names, usages, parts of plants used, methods of preparation and administration of plants was obtained from local healers, herbalists, traditional birth attendants, bone setting homes, experienced parents and patients by filling in questionnaires during personal interviews. Respondents were asked to bring their drugs or herbal preparation they use or guided the authors to places where they are grown. In all 1106 individuals were interviewed and 45% of them were men while 55% were women. Information was compiled from 21 settlements in Esanland .The reference numbers for the plants are

Table 1: Categories of Respondents interviewed for studies

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Categories of Respondents	No	%			
Local healer	100	9			
Herbalist	94	8.5			
Traditional birth attendant	80	7.2			
Bone setting homes	90	8.1			
Experienced parents	342	30.9			
Patients	400	36.2			

n = 1106

Table 2: Routes of Administration of herbal preparations

Route of Administration	Frequency	Percentage	
Orally	95	83	
Topically	19	17	
Inserts or Suppository	0	0	
Inhalation	1	0.9	

n = 115

Table 3: Parts of the plant used in the herbal preparations

Part of plant	Frequency	Percentage	
Leaf	56	51.0	
Seed	9	8.1	
Fruit	10	9.0	
Root	14	12.7	
Back and Steam	10	9.0	
Flower	1	0.9	
Bulb	4	3.6	
Juice/sap	1	0.9	
Tuber	2	1.8	
Whole plant	2	1.8	
Rhizome	1	0.9	

n = 110, Aerial part = 84%, Root = 16%

those used in depositing the plants at the Herbarium of the Department of Botany, Ambrose Alli University, Ekpoma in Edo State (Table 5).

Results

The characteristics of respondents, types of plants used as well as the common ailments for which various parts of herbs are used by the Esan people (an ethnic group in Edo state, Nigeria) are presented in Table 1-5. Table 1 gives the details of the various categories of respondents engaged in this investigation. A total of 1106 indigenes were interviewed and of these, patients who were undergoing treatment at various herbal homes constituted the largest percentage of 36.2% while traditional birth attendants constituted the least (7.2%).

Oral route was the most frequently used route of administration (83%) while inhalation and inserts/use of suppositions recorded the least (6.9% and 0% respectively; Table 2).

The results of the present investigations further revealed that aerial parts of the plants (84%) were the most commonly used parts while roots or underground parts of the herbs (16%) were the least used parts (Table 3). The leaf was indeed the most popular plants part used in the various herbal preparations (51%) while seed

(8.1%) and fruits were used occasionally. Flowers have the least frequency of 0.9%. Table 4 gives the herbal plants used for their treatment. Gastro-intestinal disease had the highest number of herbal plants for its treatment (23), followed by treatment of infertility in women or gynaecological and obstetrics problems (17); the least number of plants was used for the management of ear problems (1). A summary of the characteristics of the herbs, parts used and voucher numbers of the Ambrose Alli University; Ekpoma which is located in Esanland is presented in Table 5. The local names of the plants have been included to ease identification by herbalist practicing in the locality and potential researchers from the same environment.

The plants used in Esanland have been presented in alphabetical order of botanical names and other relevant information in Table 5. In all, 70 species were encountered and are used in 115 different methods or preparations. It was recorded that 83% of the herbal preparations were used internally while 17% were applied externally (topical).

Discussion

About 36% of the respondents were patients undergoing treatment for various ailments at herbal homes as both out patients and in patients at the time of investigations (Table 1). Another major category were experienced parents (30.9%) who had encountered the various herbs during the period of raising their children. The high proportion of patients and parents is an indication of the popularity of herbal medicine in the communities studied.

It is apparent from Table 2 that oral route was the most popular method of administration since the majority of the extracts were alcoholic or aqueous and acceptable through the mouth. Topical application was low (17%) while inhalation was a rare means of administering the herbal preparations. The aerial parts of the plants especially the leaves were the most frequently used and were administered directly in the form of decoctions, and in few cases applied externally or topically. Leaves are known to accumulate alkaloid, tannins, inulins etc. which are active components of most herbal preparations in high concentrations and it is these components which give relief to the disease condition in patients (Okoegwale and Omefezi, 2001). Roots, stem bark, fruits and seeds are minor source of these components and hence used to a lesser extent (Table 3).

In the communities studied, traditional medicine offered remedies to some of the common ailments ranging from common cold to complex pathological disorders relating to poor blood circulation, gastro-intestinal, respiratory, genito-urinary system, as well as infertility, impotence, rheumatism and asthma. The highest number of herbs was associated with gastro-intestinal disorders. This is not surprising because water availability is a problem in Esanland which has been

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Table 4: Diseases and Herbs used in managing specific ailments

Ailment	Plants used (Serial numbers as in Table 5)
Common cold/respiratory system	1, 6, 7, 11, 16, 22, 22, 26, 27, 29, 33, 37, 40, 40,70.
Cardiovascular system	22, 34, 56, 61, 68.
Genito-urinary system	2, 6, 29, 44, 52, 61, 68.
Wound/ulcers	4, 37, 43.
Dermatitis/skin	4, 13, 18,20, 60, 28, 39, 39, 47, 49, 64.
Ear	38.
Eye	1, 21, 21, 25.
Female fertility/gynaecology and obstetrics	3, 8 15, 24, 29, 32, 37, 42, 44, 45, 47, 50, 52, 57, 58, 67.
Male fertility/sexual dysfunction	3, 30, 47, 62, 65.
G I T (gastro-intestinal system)	5, 6, 10, 12, 12, 17, 18, 19, 22, 23, 24, 25, 29, 43, 44, 44, 46, 48, 52, 52, 54, 55.
Epilepsy	7, 8, 36, 44, 50, 51.
Dental/mouth	10, 18, 25.
Malaria	14, 14, 22, 47, 53.
Central Nervous System	17, 20.
Fractures/bone	35, 69.
Diabetes	41, 47, 66.
Miscellaneous	4, 9, 31, 52, 59, 63.

Table 5: Medicinal Plants used in Esanland of Edo State Nigeria

Species	Local	Parts Used	Traditional	Preparation and	AAUBH
Name	Name		uses	Administration	No.
1. Abrus precatorius	Empo	Leaf	For cataract	Leaf extract is applied on the eyes	00342
			For asthma	Leaf is chewed	
2. Acacia sieberiana	Alughan	Leaf	For urinary tract disorder	Decoction is taken orally	00076
Aframomum melegueta	Uriema / Usiedo	Seed	For low sperm count	Seed is chewed during breakfast.	01124
		Fruit	For menstrual pain	The fruits with the seeds are chewed together	00023
4. Ageratum conyzoidess	Okhekhe	Leaf	For dressing wound	Decoction is applied on wound surface	00568
		Root	For rheumatism	Decoction is taken orally	
		Leaf	Skin rashes	Leaf extract is applied on affected parts	00021
5. Alchornea latiflora	Obieyba	Leaf	For stopping vomiting	The leaf is ground with pepper and taken orally	00287
6. Allium cepa	Alubasa	Bulb Bulb/leaf	For asthma For kidney problem	Decoction is taken orally Bulb is burnt and taken orally.	00032
			For ulcer	Same as abo∨e	
7. Allium sativum	Nikhere	Bulb Seed (cloves)	For asthma For epilepsy	Decoction is taken orally Cloves are chewed.	03340
8. Alstonia booneii	Ojegbhukhun	Root	For epilepsy	Decoction is taken orally	09003
<u> </u>	-,-9	Bark	For expelling retained placenta	Decoction is taken orally	04402
9. Amaranthus spinosus	Obiwhne	Roots	For allergy	Roots are mashed, soaked in ethanol and taken orally	00012
10. Anacardium occidentale	lkashu	Bark	For dysentery For toothache For sore gum	Decoction is taken orally Bark is chewed.	00062
11. Ananas comosus	Edin-ebo	Fruit	For asthma	Ripe fruit is eaten	009111
12. Aspillia Africana	Ohawe	Leaf Root	To stop vomiting To stop vomiting	Decoction is taken orally Leaf is chewed.	00009
13. Alternanthera sessalis	Obiewe	Leaves	For eczema	Infusion is applied on affected parts	00392
14. Azadirachta indica	Dogoyaro	Leaf Bark	Malaria Malaria	Decoction is taken orally Decoction is taken orally	00073
Table 5 Cont		Leaf	For malaria	Decoction is used to bath	

Table 5 Cont.

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15. Boerhaavia diffusa	Ebe-Ukpokodo	Leaf	For fertility	Leaf is used for making soup which is taken orally.	09321
			For menstrual pain	Leaf is pounded with pepper (Capsicum annuum), salt	
				is added and taken orally.	
16. Bryophillum	Ogbodogho	Leaves	For cough	Leaves are passed over	00081
pinnatum	3 3		· ·	the fire for a minute, fluid	
				produced is taken orally.	
17. Caesalpina	Eko-omode	Leaf/bark	As purgati∨e	Decoction is taken orally	00066
pulcherrima		Seed	For nervous ailment	Seed powder is taken orally	
18. Cajanus cajan		Root	For frequent stooling	Root is ground and taken orally	00099
	Olene	Leaf	For toothache	Leaf extract is used as	
			For chicken pox	mouth wash Decoction	
				is taken orally	
19. Calotropis procera	Tofiafia	Leaf	For stomach pain	Leaf extract is taken orally	00451
20. Cannabis sativa	ltabe-elimin	Leaf	For dandruff	Leaf extract is applied	01243
				on the scalp	
		Leaf	As stimulant	Prepared along with food such as beans and porridge	
21. Capsicum frutescens	Asin	Leaf	For eye pain	The extract of the leaf is	000154
.,				applied on the eye	
		Seed	For eye pain	Seed is ground and	
			- '	taken orally	
22. Carica papaya		Dry leaf	For asthma	The smoke of burnt leaf	03457
				is inhaled	
		Seed	For tuberculosis	Seed is chewed	
	Okodu	Unripe fruit	For stomach ulcer	Decoction is taken orally	
		Leaf	For hypertension	Leaf is crushed, little quantity	
				of water and native chalk is	
				added to it, the extract	
		Dried leaf	For malaria	is taken orally. Leaf is boiled for along	
		Dileci leai	i di ilialalia	time and is taken orally.	
23. Ceiba pentandra	Okha	Leaf	For stomach pain	Decoction is taken orally	05112
24. Chromolaena	Ebe-awolowo	Leaf	For diarrhoea	Decoction is taken orally	00452
odorata	250 011010110	Leaf	For menstrual pain	The leaf of C. odorata	00 102
25. Citrus aurantifolia	lgbopin-nigue	Fruit	For abdominal pain	Juice is taken orally	00812
	Obiede	Leaf	For bad breath	Leaf is chewed	
	Stem		For opthalmia	Decoction is taken orally	
26. Citrus paradise	Alimo-grape	Fruit	For tuberculosis	Juice is taken orally.	00521
27. Citrus sinensis	Alimo	Fruit	For tuberculosis	Juice is taken orally	01230
28. Cleome viscose	lkharo-oha	Leaf	For female infertility	Leaf is chewed three	02010
				times a day.	
29. Cocos nucifera	Uvin	Bark	For scables	Decoction is taken orally	00025
		Root	For uterine diseases,	Decoction is taken orally.	
			urethritis, bronchitis, liver		
00.0 / / :			ailment and dysentery		01001
30. Crateva adansoni	Ogiri-oha	Root	For weakness of male	Root is chewed at regular	01921
			reproductive organ	inter∨al for a month.	
21 Cumbonagan atratas	lhumibo	leaf	(decreased Libido)	Deportion is taken orally	05111
31. Cymbopogon citrates 32. Cynodon dactylon	IIIuiiibo	Leaf	For high fever For irregular menstruation	Decoction is taken orally Decoction is taken orally	00051
	lgen	Leaf	For hiccup	Leaf is chewed.	04191
			For hypertension	Decoction is taken orally	09100
33. Dialium guinense	_	Leaf		Decodion is taken draily	00 100
33. Dialium guinense 34. Dichapetalium	Ureaja	Leaf	. c. ryparamen		
33. Dialium guinense	_	Leaf Roots	For bone fractures	Scrapings from the outer	00076
33. Dialium guinense 34. Dichapetalium heudebtii	Ureaja			Scrapings from the outer covering of the roots are	00076
33. Dialium guinense 34. Dichapetalium heudebtii	Ureaja				00076
33. Dialium guinense 34. Dichapetalium heudebtii	Ureaja			covering of the roots are	00076
33. Dialium guinense 34. Dichapetalium heudebtii	Ureaja			covering of the roots are mixed with ground fruits of <i>Xylopia aethiopica</i> , oil added, the mixture is made	00076
33. Dialium guinense 34. Dichapetalium heudebtii	Ureaja			covering of the roots are mixed with ground fruits of <i>Xylopia aethiopica</i> , oil added, the mixture is made warm over the fire. The	00076
33. Dialium guinense 34. Dichapetalium heudebtii	Ureaja			covering of the roots are mixed with ground fruits of <i>Xylopia aethiopica</i> , oil added, the mixture is made	00076

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36. 1	Elaeis guineensis	Udin	Kernel oil	As anticonvulsant	The extract is applied all over the body	00413
37. E	Euphorbia hirta	Azugben	Leaf	For wound	It is applied on the surface of the wound	00995
			Fresh leaf	For asthma	Decoction is taken orally	
			Flower	1 01 43011114	Infertility in women	
			11000		It is prepared as soup	
					which is taken orally.	
38.	Euphorbia		Leaf	For our nain	Latex is applied directly	06311
50.	·		Leai	For ear pain		00311
20	heterophylla	Et	1 6	F	on the ear twice a day	07440
39. 1	Ficus exasperata	Ebe-Ameme	Leaf	For ring worm	Leaf is used to scratch the affected part.	07113
40. <i>l</i>	Ficus exasperata		Leaves	For boils	Leaves are ground and	
					applied directly	
					on the boil.	
41.	Garcinia kola	Adu	Root bark	For asthma	Decoction is taken	00301
• • •	Carewna Nora	, ida	Noot bank	1 of usuma	orally after food	00001
			bulb/seed	For tuberculosis	,	
12.	Gongronema	Utezi	Leaf	Diabetes	Eaten raw or as vegetable	00115
12.	-	Olezi	Leai	Diabetes	_	00113
40	latifolum	Ob also	1 5	Observed day 1	in soup as spice	04045
43.		Obobo	Leaf	Abnormal development	Leaf is ground with salt and	01942
	rosasinensis			of foetus	taken orally once a day	
44. <i>l</i>	lpomoea batatas	lyan ebo	Leaf	For boils and wounds	Poultice of leaf is applied	00341
				As purgati∨e	on affected area	
					Decoction is taken orally	
45.	Jatropha curcas	Ujavade/ Okokoiko	Root	Fr epilepsy	Decoction is taken orally	02231
	carcac	Onononio	Seed	For gonorrhoea	Seed is burnt and eaten	
			Seed	As an abortifacient		
			Seeu	As an abortilacient	Dry seed is ground, kept in	
					local gin and taken orally.	
			Leaf	For indigestion	Infusion is taken orally.	
			Dry leaf	For stomach ulcer	Decoction is taken orally	
46.	Manihot	Egu	Tuber	For bleeding during	Start is extracted from the	02003
	utillissima			pregnancy	tuber, stays for three days	
					before the addition of a glass	
					of water and is taken orally.	
47.	Melanthera scandens	Obreshelle	Leaf	For stomach disorders	Decoction is taken orally	007201
48.	Momordica	Urakhanye	Leaf	Malaria	The three plants are	00112
	charantia	oranian, o	250.	Trial area	squeezed together in	001.2
	Charanna				water and taken orally.	
			Leaf and fruit	For fertility	Leaf and fruit are	
			Lear and nuit	For letting		
					macerated in water, the	
					fluid is taken orally	
			Whole plant	For diabetes	Decoction is taken orally	
			Fruit	Low sperm count	A mixture of ground	
					young fruit with snails is	
					taken orally once a day.	
		Momordica	Leaf	For ring worm	Leaf extract is applied	
		charanta			on theaffected area	
49.	Musa paradisiaca	Oghede	Unripe fruit	For stomach ulcer	Decoction is taken orally	00512
	,	•	Leaf	For haemorrhoids (pile)	Leaf mixed with palm oil	
			250.	r or madimentificate (pillo)	is applied externally	
50.	Musa sapientum	Oghede-nikhere	Leaf	For eczema	The leaves are burnt, and	00219
50.	wusa sapientum	Ognede-likitere	Leai	For eczenia	,	00219
					the ashes are rubbed	
					in the affected area	
51.	Newbouldia laevis	Ukhimi	Root	For epilepsy	Decoction is taken orally	
			Stem bark	Early abortion	Decoction is taken orally	00017
52.	Nicotiana tabacum	ltaba	Fresh leaf	For epilepsy	Decoction is taken orally	09655
	Olax subscorpioidea	Ukpakon	Root	To reduce fat during	Decoction is taken orally	00555
			· •	pregnancy, for constipation		22300
			Bark/leaf	For yellow fever, jaundice,	Decoction is taken orally	
				-		
				venereal diseases		
				venereal diseases and guinea worm		

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54. Parguetina	Ufiogba	Leaf	Malaria	The three plants are	00086
nigrescence				squeezed together in water	
				and is taken orally.	
55. Paullinia pinnata	Ekeleba-kpugho	Leaf	As a purgati∨e	Decoction is taken orally	09433
56. Penisetum	Esun	Root	For indigestion	Root extract is	00009
purpureum				taken orally	
57. Persea americana	Olumuebo	Leaf	For hypertension	Leaf is boiled and	00871
				taken orally	
58. Phyllanthus amarus	lkekeebe	Whole plant	For bleeding	Decoction is taken orally	00097
			during pregnancy		
59. Portulaca oleracea	Userue	Leaves	For bleeding	Parts are cooked using	09076
			during pregnancy	yam and palm	
				oil and are eaten.	
60. Saccharum	Uriekhue	Matured stem	For typhoid fe∨er	Juice extract of matured	09097
officinarum				care is taken	
61. Sida acuta	Ubane alimi	Leaf	For gonorrhea	Leaf extract is taken	00086
62. Sphenocetrum	Obiomanuwhuno	Root	For impotence,	Root is chewed	00128
jolyanum			loss of Libido	like chewing	
				stick every morning	
63. Spondias mombin	Ogheghe	Leaves	For allergy	Leaves are eaten	00681
64. Talinum triangulare	Ebodondon	Tuber	For schistosomiasis	Tuber extract is taken orally	08553
		Leaf	For scabies and fresh cuts	Leaf extract is taken orally.	
65. Telferia occidentalis	Umwenken	Seed	For increasing sperm	Seed is boiled and eaten	00954
			count in male		
66. Terminalia catappa	Belebo	Leaf	For diabetes	Decoction is taken orally	09762
67. Triumfetta	Uwerientan	Leaf	To induce fertility	Infusion is taken orally	00423
rhomoboidea			and make womb receptive		
			to implantation of foetus		
68. Vernonia amydgalina	Oriwo	Leaf	For hypertension	Unwashed leaf is	05030
				prepared as soup and	
				taken in the evenings.	
69. Xylopia aethiopica	Erierie	Fruits	For bone fractures	Fruits are mixed with	05117
				scrappings from the	
				outer roots of <i>Dityandra</i>	
				<i>involucrate</i> and oil. Then	
				mixture is made warm	
				over fire and applied on	
				the fractured site.	

without good source of water from time immemorial. Some of the preparations are potent antibiotics and are used to treat pathologies such as wounds/ulcers, venereal diseases, dysentery, urinary tract infections, eczema, dandruffs and schistosomiasis. The potent antibiotics include: Garcina kola for treating tuberculosis; Olax subscorpioidea for yellow fever and venereal diseases such as Neiseria gonorrhea. As indigenous communities, emphasis is placed on child birth and its associated gynaecological/obstretic disease conditions. Herbs used in the management of reproductive disorders were Sphenocetrum jolyanum for loss of libido in men, Telferia occidentalis and Aframomum melegueta for low sperm counts; and Cloeme viscose for managing infertility in women (Table 5).

Interestingly, some of the plants, which are known for treating specific ailments, also form part of the diet of the indigenes, who use them in various food preparations. Notable among these are: Aframomum melegueta, Euphorbia hirta, Telferia occidentalis, Vernonia

amydgalina, Allium cepa, Talinum triangulare, Citrus aurantifolia, and Boerhavia diffusa.

Previous works on traditional medicine in Nigeria include: Mume (1976); Gill and Akinwumi (1986); Sofowora (1993); Adegoke et al. (1968); Daodu (2000); Oliver (1990); others are: Gill and Akinwumi (1986), Sofowora (1993), Gill and Siakpere (1990) and Gill and Akporhunor (1988). The findings of the present investigations were compared with some previously published studies on traditional medicine in Southern Nigeria: Okoegwale and Omefezi (2001); Gill et al. (1993), Osifor (1988); Gill (1992). From these reports, it was apparent that some of the plants, parts used and purpose of use cut across other cultures not only in Nigeria but other parts of the world with similar cultural and socio-economic background (Ayitey-Smith, 1989).

Conclusion: It could be said that the use of medicinal herbs to cure common ailments would continue to be a major part of the health care delivery system in many societies. This may be related not only to cost and

difficulty in obtaining modern orthodox medical care but also the proven efficacy and tolerability of these herbal preparations-a practice that has been with indigenous groups for ages.

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