

Traditional Eye Medicines And The Factors Associated With Ocular Manifestations Among Patients Attending Mulago National Referral Hospital Eye Department

Author information

- Fransisco Msonge¹, Lusobya Rebecca Clare¹, Anne A. Musika¹, Immaculate Atukunda¹ Juma Paul¹, Elizabeth Nagawa¹, Eunice Headcraph¹, Agaba John¹, Otiti Juliet Sengeri¹.
- Corresponding Author: Fransisco Msonge

Affiliations

 1.Department of Ophthalmology, School of Medicine, Makerere University College of Health Sciences, Kampala, Uganda

Traditional Eye Medicines(TEM)

□TEM

 Any organic or inorganic substance (plant, animal, or chemicals) that were applied to eyes to achieve a desired ocular therapeutic effect.



Background

- Prevalence of TEM use in SSA ≈ 33.8% (Ukponmwan & Momoh, 2010).
- TEM contributes to delay in treatment (Gupta et al., 2017).
- In Uganda, wide spread of TEM was reported in Atyak (Nyathirombo, Mwesigye, & Mwaka, 2013)

Problem statement:

- □TEM and Ocular complications:
- Studies report prevalance of ocular complications occur in 54.8% of TEM users
- These complications are potentially sight threatening: (Ukponmwan & N. Momoh, 2010).
- Observation data at MNRH show ≈ 8.33% used TEM.

Objectives

- To determine the types of traditional eye medicine used among patients attending MNRH
- To determine ocular manifestations of traditional eye medicine users among patients attending MNRH
- To determine the factors associated with ocular manifestations among TEM users attending the MNRH

Methods

- Hospital-based crosssectional study.
- ☐ June 2021 to August 2021 at MNRH
- ☐ Sample size: **182** participants



Methods

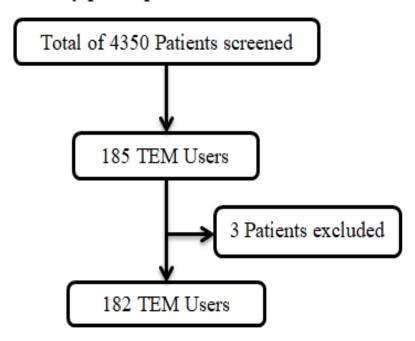
- ☐ Inclusion criteria
 - All patients confirmed to have used TEM, and sign the informed consent or assent buy parents/guardians of children participants
- Exclusion criteria
 - All patients who were unable to respond to the study questions and ocular examination

Methods

- ☐ Study procedure
 - Consecutive sampling technique.
 - A structured questionnaire was then used
- ☐ Data management
 - Electronic Epi Data version 4.2
 - STATA version 15 for analysis.

Results

Study participants flow chart



- Socio-demographic
- (M: 53.3%; F: 46.7%).
- The mean; 36± 21 SD years
- 52.2% resided in the rural
- 52.2% primary school
- Traders 29.1%(n=53)
- Farmers 15.4%(n=28)

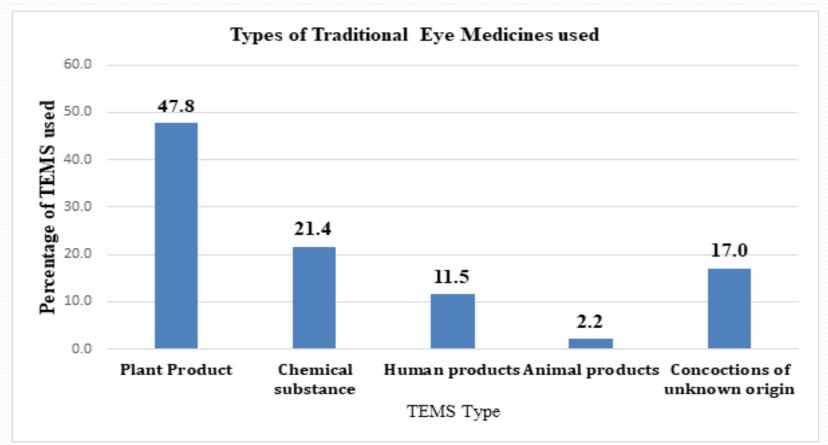
Ocular clinical reasons for using TEM

Characteristics	Frequency	Percentage
Itching	92	50.5
Tearing	114	62.6
Red eyes	52	28.6
Eye discharge	52	28.6
Photophobia	81	44.5
Corneal opacity	33	18.1
Blurred vision	68	37.4
Lens opacity	14	7.7
Eye injury	20	11.0

Social reasons for using TEM

Characteristics	Frequency	Percentages
Poverty	71	39.0
Ignorance of toxic effect	92	50.5
Limited access to health facilities	93	51.1
Limited access to eye care professionals	79	43.4
Poor quality of Healthcare	23	12.6
Cultural belief in TEM	82	45.0
Ease and availability of TEM	103	56.6

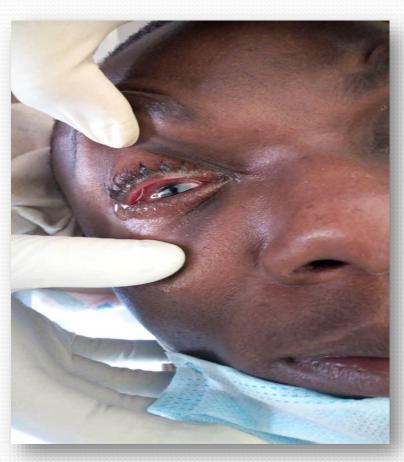
Types of TEM used



Ocular manifestations

Ocular manifestations	Frequency	Percentage
Anterior staphyloma	8	4.4
Blepharitis	6	3.3
Conjunctivitis	98	53.9
Corneal perforation	6	3.3
Corneal ulcer	51	28.0
Endophthalmitis	10	5.5
Descemetocele	3	1.7

Ocular manifestations





Associated factors

	cPR (95% CI)	p value	aPR (95% CI)	p-value
Sex Male Female	1 0.83 (0.68-1.01)	0.067	1 0.85 (0.71 - 1.03)	0.094
Residence Rural Urban	1 1.5 (1.14-1.98)	0.004	1 1.46 (1.12 - 1.91)	0.006
Availability of TEM No Yes	1 1.52 (1.22-1.89)	<0.001	1 1.53 (1.23 - 1.92)	<0.001
Itching No Yes	1 0.98 (0.81-1.19)	0.858	1 0.88 (0.71 - 1.11)	0.278
Tearing No Yes	1 1.03 (0.85-1.26)	0.737	1 1.09 (0.87 - 1.37)	0.436
Health facility No Yes	1 1.15 (0.95-1.40)	0.141	1 1.13 (0.93 - 1.37)	0.235
Culture No Yes	1 1.15 (0.95-1.38)	0.155	1 1.12 (0.92 - 1.36)	0.269

Discussion

- ☐ The commonly used TEM was plant products
 - Y. Jaya, 2014; S. Nwosu 2011; Ukponmwan, 2010
- □70% had ocular manifestations:
 - 54.5% by (Nwosu & Obidiozor, 2011)
 - 58.6% by (Jaya & Masanganise, 2014)
- ☐ Urban dweller were -likely to have ocular manifestations

Conclusions

- Plant-based products were the most frequently used types of TEM and were often prescribed by non-traditional healers.
- A large proportion of the TEM users were found with potentially sight-threatening ocular manifestations
- Urban dwellers and ease of availability of TEM were strongly associated with an ocular manifestation.

END

THANK YOU