

Sussex Research

Clinical, haematological and biochemical profiling of podoconiosis lymphoedema patients prior to their involvement in a clinical trial in the Northwest Region of Cameroon

Bertrand Lontum Ndzeshang, Randy Tchachoua Mbiakop, Gordon Takop Nchanji, Chi Anizette Kien, Glory Ngongeh Amambo, Raphael Awah Abong, Timothy Yuyun, Amuam Andrew Beng, John Bonekeh, Manuel Ritter, Mathias Eyong Esum, Jerome Fru Cho, Abdel Jelil Njouendou, Ignatius Nde Ndifor, Kebede Kassaye, Fanny Fri Fombad, Peter Enyong, Ute Klarmann-Schulz, Achim Hoerauf, Samuel Wanji

Publication date

01-12-2020

Licence

This work is made available under the [CC BY-NC 4.0](#) licence and should only be used in accordance with that licence. For more information on the specific terms, consult the repository record for this item.

Document Version

Published version

Citation for this work (American Psychological Association 7th edition)

Ndzeshang, B. L., Mbiakop, R. T., Nchanji, G. T., Kien, C. A., Amambo, G. N., Abong, R. A., Yuyun, T., Beng, A. A., Bonekeh, J., Ritter, M., Esum, M. E., Cho, J. F., Njouendou, A. J., Ndifor, I. N., Kassaye, K., Fombad, F. F., Enyong, P., Klarmann-Schulz, U., Hoerauf, A., & Wanji, S. (2020). *Clinical, haematological and biochemical profiling of podoconiosis lymphoedema patients prior to their involvement in a clinical trial in the Northwest Region of Cameroon* (Version 2). University of Sussex.

<https://hdl.handle.net/10779/uos.23478443.v2>

Published in

Transactions of the Royal Society of Tropical Medicine and Hygiene

Link to external publisher version

<https://doi.org/10.1093/trstmh/traa146>

Copyright and reuse:

This work was downloaded from Sussex Research Open (SRO). This document is made available in line with publisher policy and may differ from the published version. Please cite the published version where possible. Copyright and all moral rights to the version of the paper presented here belong to the individual author(s) and/or other copyright owners unless otherwise stated. For more information on this work, SRO or to report an issue, you can contact the repository administrators at sro@sussex.ac.uk.

Discover more of the University's research at <https://sussex.figshare.com/>

SUPPLEMENTARY TABLES FOR ARTICLE

Supplementary Table 1: Health issues documented on physical examination

	Frequency	Percent
Abdominal pain	4	1.80
Cataract	2	0.90
Conjunctivitis	2	0.90
Fibroid	3	1.30
Frequent pruritic, pains, eye itches	1	0.45
Gastritis	21	9.46
Hyperpigmented patches on leg	1	0.45
Hypertension	5	2.25
Leg ulcer	3	1.30
Lipoma	1	0.45
Marked epigastric tenderness	2	0.90
Minor goiter	1	0.45
Poor vision	9	4.05
Short sightedness	3	1.35
Evidence of surgery	12	5.41
Tinea versicolor	2	0.90
Wound on limbs	1	0.45
None	153	68.92
Total	222	100.0

Supplementary Table 2: Comorbidity condition reported across podoconiosis study participants

Comorbidity	Podoconiosis subjects	
	Frequency	Percentage (%)
Asthma	1	0.45
Cataract	1	0.45
Diabetes mellitus	2	0.89
Gastritis	10	4.46
Hypertension	9	4.02
Leg ulcer	2	0.89
Tinea versicolor	1	0.45
No comorbidity reported	170	75.68

Supplementary Table 3: Haematological parameters for which more than 40 % of the study participants had abnormal values

Parameter	Classification	Stage 2	Stage 3	Stage 4	Total	Reference range
		n (%)	n (%)	n (%)	n (%)	
MCV (fL)	High (> 99.0)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	80.0-99.0
	Normal	32 (34.80)	37 (30.10)	2 (28.60)	71 (32.00)	
	Low (<80.0)	60 (65.20)	85 (69.10)	5 (71.40)	150 (67.60)	
PCT (%)	High (>0.28)	59 (64.10)	67 (54.50)	3 (42.90)	129 (58. 10)	0.10-0.28
	Normal	33 (35.90)	55 (44.70)	4 (57.10)	92 (41.40)	
	Low (<0.10)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	
PDW (fL)	High (>14.0)	50 (54.3)	65 (52.8)	5 (71.4)	120 (54.1)	10.0-14.0
	Normal	30 (32.60)	42 (34.10)	2 (28.60)	74 (33.30)	
	Low (<10.0)	11 (12.0)	15 (12.2)	0 (0.0)	26 (11.7)	
MPV (fL)	High (>10.4)	48 (52.2)	56 (45.5)	1 (14.3)	105 (47.3)	7.4-10.4
	Normal	43 (46.7)	66 (53.7)	6 (85.7)	115 (51.8)	
	Low (<7.4)	1 (1.1)	0 (0.0)	0 (0.0)	1 (0.5)	
PLT (10^3uL)	High (>300)	25 (27.2)	27 (22.0)	1 (14.30)	53 (23.9)	100-300
	Normal	67 (72.8)	95 (77.2)	5 (71.4)	167 (75.2)	
	Low (<100)	0 (0.00)	0 (0.00)	1 (14.30)	1 (0.50)	
RDWSD (fL)	High (>46.0)	4 (4.3)	5 (4.1)	1 (14.3)	10 (4.5)	39.0-46.0
	Normal	20 (21.70)	24 (19.50)	1 (14.30)	45 (20.30)	
	Low (<39.0)	68 (73.9)	93 (75.6)	5 (71.4)	166 (74.8)	

Supplementary Table 4. Biochemical parameters of urine in study subjects

Parameters	Class	Frequency	Percentage
Leucocytes	Negative	164	82.41
	Small-trace	22	11.06
	Moderate -large	11	5.53
	Missing	2	1.01
Nitrite	Negative	190	95.48
	Positive	8	4.02
	Missing	1	0.50
Urobilinogen	Normal	168	84.42
	Presence	28	14.07
	Missing	3	1.51
Protein	Negative	162	81.41
	Trace	23	11.56
	Present	12	6.03
	Missing	2	1.01
Blood	Negative	172	86.43
	Small	19	9.55
	Moderate	7	3.52
	Missing	1	0.50
Ketone	Negative	197	98.99
	Present	2	1.01
Bilirubin	Negative	194	97.49
	Present	5	2.51
Glucose	Negative	193	96.98
	Trace	1	0.50
	present	5	2.51