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TTO (5% v/w) gel Tungiasis Trial – CRF	Subject Study ID-no:	UNIVERSITY OF CANBERRA

Case Report Form (CRF)

Treatment of tungiasis using a 5% v/w tea tree oil (TTO) gel: A randomised, controlled, proof-of-principle trial

Subject Study ID:

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TTO (5% v/w) gel Tungiasis Trial – CRF

Subject Study ID-no: ______ UNIVERSITY OF CANBERRA

A. Recruitment Form

Please complete this form for every child who is identified as a potential participant in the TTO (5% v/w) gel tungiasis Trial

Investigator: Date:/_/[dd/m	ım/yyyy]
Question	Response (tick one)
Has the child been identified as having active embedded jiggers? If No, excuse participant If Yes, proceed	☐ Yes ☐ No
2. Is the child aged between 6 and 15 years? - If No, excuse participant - If Yes, proceed	☐ Yes ☐ No
3. Explain the study protocol to the caregiver (and the child if appropriate) with the aid of the Participant Information Sheet. - Once done, tick 'Done' and proceed	Done
4. Is the caregiver able and willing to provide written informed consent for the child to take part in the study? - If No, record reason (if given) and excuse participant - If Yes, proceed	☐ Yes ☐ No
Is the caregiver able and willing to be contacted by telephone (voice call and SMS) after the initial assessment?	☐ Yes ☐ No
 6. Is the child willing to participate in the study? If No, excuse participant If Yes, ask child to fill in Written Assent if aged ≥12 years, then proceed 	☐ Yes ☐ No
7. Ensure that the child's caregiver has signed informed consent for the child to participate in the study If 'Done', proceed to Eligibility Assessment Form If consent was not given, provide reason below (if given) and excuse participant	☐ Done ☐ Consent not given

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B. Eligibility Assessment Form			
Please complete this form for every participant who is recruited to the TTO (5% v/tungiasis trial. This form is used to assess whether the participant meets the crite eligible for enrolment into the study. Investigator: Date assessed:/_/ [dd/tool: Study Eligibility Criteria	ria to be]	
Inclusion criteria			
Please tick 'Yes' or 'No' for each item.			
Both 2 items must be marked 'Yes' for the child to be eligible for enrolment.		ı	
Inclusion criteria	Yes	No	
1. Is the child aged from 6–15 years with at least 1 viable (stage II and Stage III) lesion according to the Fortaleza classification on the child's feet? Perform clinical examination of the lesions and confirm their viability based on the four viability signs using the handheld digital microscope. Refer to Figure 1 and Figure 2 on page 10 and 11 of Case Report Form.			
Is the caregiver able and willing to provide written informed consent for the child to take part in the study?			
Exclusion Criteria Please tick 'Yes' or 'No' for each item. All items must be marked 'No' for the child to be eligible for enrolment	•		
Exclusion criteria	Yes	No	
Are there any cluster lesions (more than 3 lesions together) and manipulated lesions?			
2. Are there any complicated lesions (severe) requiring antibiotic treatment?			
3. Do the caregivers intend to change their place of residence during the study period?			
4. Has the child used <u>any medication</u> (systemic or topical drugs medication) in the past week? This could include antibiotics, prescription or non-prescription medications, creams, ointments, medicated wash products, etc.			
If Yes, please tick all that apply and provide name of medication (if known). ☐ Oral medication (specify) ☐ Cream/ointment (specify) ☐ Anti-itch preparation, e.g. steroid (specify) ☐ other (specify)			
5. Does the child have a known history of allergy to any of the study medications listed below?			
If Yes, please tick all that apply. □ Potassium permanganate □ Tea tree oil or other essential oils			
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Eligibility outcome				
		TTO (5% v/w) gel Tungiasis Trial only if any of the exclusion criteria.	they mee	et
For an eligible child, the	ne answer must be '	'Yes' to question 1 and 'No' to question 2	below.	
			Yes	No
Does the child me questions on page		n Criteria (answered 'Yes' to both 2		
Does the child me the 5 questions on		usion criteria (answered 'Yes' to any of		
The participant is	☐ Not eligible fo	or the trial		
	- Please excus	se child and caregiver		
	•	e trial but will not be randomized due to o		
	_	ne trial and will be randomized Baseline Assessment form		
Form completed by: _		Date://[dd/	mm/yyy	/y]
Signature:				
Investigator signature			Page 4 of	
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TTO (5% v/w) gel Tu	ngiasis Trial – CRF	: 9	Subject	Stu	dy ID-no:		UNIVERSITY OF CANBERRA
C. Baseline A							
Please complete the Investigator:School:							
Demographics							
Clinical Assessme	ent 1 - Demogra	phics		Re	esponse		
Age							
Sex					Male	☐ Femal	e
Date of Informed (dd/mm/yyyy)	Consent from le	gal caregive	er		_//		
School							
Usual place(s) of	residence				Rural	☐ Remot	e
Usual place(s) of or community)	residence (nam	e of suburb,	town				
Physical Examina Please record any gastroenteritis). Pro	existing medica						(e.g.
Clinical Assessm				elov	VII HECES	Response	
Height (cm)							_ cm
Weight (kg)							_ kg
Date assessed	Study day	BP	Pulse		Temp.	Comment	
<u> </u>	Day 1 Day 4						
1 1	Day 5						
	Day 7 Day 10						
	рау 10						
							Page 5 of 21

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Abrha S, et al. BMJ Open 2021; 11:e047380. doi: 10.1136/bmjopen-2020-047380

TTO (5% v/w) gel Tung	iasis Trial – CRF	Si	ubject Study ID-	no:		UNIVERSITY OF CANBERRA	
Medical history							
Medical condition/	illness/allergy	II.	Start date dd/mm/yyyy)	End (dd/n	date nm/yyyy)	Condit ongoin (Y/N)	
				/_			
		_	/	/_			
		_		/_	/		
		_		/_			
		_		/_			
Places record any m	andications take	n by the chi	ld in the last 1 w	vook			
Please record any m	Indication	Dose	Start date (dd/mm/yyyy)	Е	i nd date dd/mm/yyyy)	Ong ng (Y/N	_
			//				
			//				
			//				
			//		//		
Comments:				•		•	
History of Jiggers		estions abou	it jiggers in the c	hild an	d their comn	nunity.	
Clinical Assessment					Response		
1. How long ago did	the child's jiggers	s start? (tick o	one)		☐ < 1 wee ☐ 1-3 wee ☐ 3-6 wee ☐ > 6 wee	ks ks	
2. Has the child prev or doctor?	iously been diagr	nosed with jig	gers by a health v	worker	☐ Yes	□No	
					P	age 6 of 2	1
nvestigator signatur	e				Version 2.0 dat	ted 20/08/201	19

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Clinical Assessment 1 - History of jiggers		Response
3. How many times in the past has the child had	jiggers? (tick one)	☐ 0 ☐ 1-2 times ☐ 3-5 times ☐ >5 times ☐ unknown
Has the child been treated with any jigger's m- past?	edication <u>at any time in the</u>	☐ Yes ☐ No
If Yes, please tick all that apply Potassium permanganate (KMNo4) and Vaseline Vaseline Neem extracts Coconut oil Skin cream/ointment, name unknown Oral medication, name unknown If Yes, how long ago did the most recent treatment end? 1 veek 1 -2 weeks		
5. Has the child been treated with any antibiotics	in the last 1 week?	☐ Yes ☐ No
If Yes, what is the name and indication of the		
Name:	□ Unknown	
Indication:	□ Unknown	

D. Study drug administration

Please record the type of intervention and time of application in this form.

Treatment applied	Amount	Date of application	Time of application
	applied (g)	dd/mm/yyyy	24-hr time
☐ Yes ☐ No		/	:
☐ Yes ☐ No		//	:
☐ Yes ☐ No		/	:
☐ Yes ☐ No		/	:
☐ Yes ☐ No		//	:
☐ Yes ☐ No		//	:

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E.	E. Clinical and symptomatic assessment -1					
1.	Please assess each of the following foot parts for typical jigger lesions (tick if present).					
	☐ Toe 1- A ☐ Toe 2- B ☐ Toe 3- C	☐ Toe 4- D ☐ Toe 5- E ☐ Heel- F	☐ Lateral side- G ☐ Medial side- H ☐ Sole- I			
		Right foot				
	G I H	H G Left foot	F			
	A B G B G B G G G G G G G G G G G G G G	E B A	F			
2.	Are any viable lesions present	on the child's feet?	☐ Yes ☐ No			
3.	Mark all sites of viable lesions and 10.	on the feet diagrams on pages 9	Done			

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E. Clinical and symptomatic assessment -1							
Feet diagram – Full Mark all sites of active jigger lesions with an X. Clearly label the 2 target sites (see question 4) on the diagrams (e.g. "Target Site 1").							
	Right foot						
0000							
	Left foot						
Additional comments:							

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These should be indicated in the sites that are easily accessible for taking photograph and viability assessment using handheld video microscope. Use a descriptive name like "Toe 1" or "heels "as per question number 1. Mark the location of these sites on the feet diagrams on pages 2. Target site 1: Target site 2: 5. Record the names of the target sites on the last page of each of the Clinical Assessment Forms 1, 2 & 3 for future reference. 6. Photograph each of the 2 viable lesions together with their target sites	Done Done Done
and viability assessment using handheld video microscope. Use a descriptive name like "Toe 1" or "heels "as per question number 1. Mark the location of these sites on the feet diagrams on pages 2. Target site 1: Target site 2: 5. Record the names of the target sites on the last page of each of the Clinical Assessment Forms 1, 2 & 3 for future reference. 6. Photograph each of the 2 viable lesions together with their target sites 7. Record the photograph number using stickers on the last page of each of the	Done
Target site 2: 5. Record the names of the target sites on the last page of each of the Clinical Assessment Forms 1, 2 & 3 for future reference. 6. Photograph each of the 2 viable lesions together with their target sites 7. Record the photograph number using stickers on the last page of each of the	Done
 5. Record the names of the target sites on the last page of each of the <i>Clinical Assessment Forms 1, 2 & 3</i> for future reference. 6. Photograph each of the 2 viable lesions together with their target sites 7. Record the photograph number using stickers on the last page of each of the 	Done
Assessment Forms 1, 2 & 3 for future reference. 6. Photograph each of the 2 viable lesions together with their target sites 7. Record the photograph number using stickers on the last page of each of the	Done
7. Record the photograph number using stickers on the last page of each of the	
	Done
Clinical Assessment Forms 1, 2 & 3 for future reference.	
8. Assess the viability of 2 target lesions. Tick all that apply for each site.	
Lesion characteristics Lesion 1 Lesion	1 2
Localization	
Excretion of faeces (threads)	
Excretion of faeces (liquid)	
Expulsion of eggs	
Pulsation of the flea	
Stage of the lesion	
9. How many Stage II jigger lesions are there on the child's feet (both right (R) and left (L) foot)?]
10. How many Stage III jigger lesions are there on the child's feet (both right (R) and left (L) foot)?]
11. How many <i>numbers of viable lesions</i> (Stages II & III, total) are there on the child's feet?	
12. How many <i>numbers of manipulated lesions (total)</i> are there on the child's feet?	
13. How many <i>numbers of cluster lesions (total)</i> are there on the child's feet?	

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E. Clinica	E. Clinical and symptomatic assessment -1						
14. Ask the on the	□ 0 □ 1 □ 2 □ 3 □ 4						
the 'itcl		ate their pain ov ture scale (tick o		4 hours) based on Very much-3	□ 0 □ 1 □ 2 □ 3 □ 4		
16. Ask the hours) I	□ 0 □ 1						
					☐ 2 ☐ 3 ☐ 4		
Not at a	ıll-0	Only a little-1	Quite a lot - 2	Very much-3			

Acute pathology examination and scoring

			Sites on the right foot											
		Toe 1	Toe 2	Toe 3	Toe 4	To 5	е	He	el La sio	teral le	Me sid	dial e	Sol	е
	Erythema													
pathology	Warmness													
ᇹ	Edema													
닱	Desquamation													
ă	Fissure													
Acute	Suppuration													
Ş	Ulcer													
	Abscess													
					;	Sites	s on	the	left fo	ot				
		Toe 1	Toe 2	Toe	Toe	4	Toe	5	Heel Latera		ral	Medial		Sole
				3						side		side	;	
_	Erythema													
g G	Warmness													
ĕ	Edema													
닱	Desquamation													
ă	Fissure													
Acute pathology	Suppuration						,		•		,		,	
Ş	Ulcer						,		•				,	
1	Abscess													

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F.	Clinical and symptomati	c assessment- 2	
1.	Please assess each of the present).	following foot parts for new	v and existing jigger lesions (tick if
	☐ Toe 1- A	☐ Toe 4- D	☐ Lateral side- G
	☐ Toe 2- B	☐ Toe 5- E	☐ Medial side- H
	☐ Toe 3- C	Heel- F	☐ Sole- I
	E Boo Boo	Right foot), (
	G	H G Left foot	
	DOODE H	G H	F
			,
2.	Are any new embedded ji	ggers present on the child's	s feet? Yes No
3.		ewly embedded sand fleas	s since the
L	last examination?		

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F. Clinical and symptomatic assess	sment- 2								
Mark all sites of new embedded jiq lesions on the feet diagrams on particles.	ggers and existing viab ages 13 and 14.	le Done							
Feet diagram – Full Mark all sites of active jigger lesions with X and newly embedded jiggers with Y. Clearly label the 2 target sites (see question 4) on the diagrams (e.g. "Target Site 1").									
Right foot									
0000									
	Left foot								
Additional comments:									

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F.	Clinical and symptomatic a	ssessment- 2					
5.	Follow the selected viable le	sions together with their target sites.		☐ Done			
	These should be indicated in the sites that are easily accessible for taking photograph and viability assessment using handheld video microscope. Use a descriptive name like "Toe 1" or "heels "as per question number 1. Mark the location of these sites on the feet diagrams on pages 2.						
	Target site 1:						
	Target site 2:						
6.	Record the names of the tar Assessment Forms 1, 2 & 3	get sites on the last page of each of the 0 for future reference.	Clinical	☐ Done			
7.	Photograph the 2 target lesion	ons together with their target sites		☐ Done			
8.	. Record the photograph number using stickers on the last page of each of the Clinical Assessment Forms 1, 2 & 3 for future reference.						
9.	9. Assess the viability of 2 target lesions. Tick all that apply for each site.						
Lesion characteristics Lesion 1 Le				esion 2			
Loc	calization						
Exc	cretion of faeces (threads)						
Exc	cretion of faeces (liquid)						
Exp	pulsion of eggs						
Pul	sation of the flea						
Sta	ge of the lesion						
10. How many Stage II jigger lesions are there on the child's feet (both right (R) and left (L) foot)?							
11.	11. How many Stage III jigger lesions are there on the child's feet (both right (R) and left (L) foot)?						
12. How many <i>total numbers of viable lesions</i> (sage II & III) are there on the child's feet							

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F. Clinical and symptomatic assessment- 2							
13. Ask the child to rate their itching over the last day (24 hours) based on the 'itch man' picture scale (tick one).	□ 0 □ 1						
	□ 2 □ 3 □ 4						
14. Ask the child to rate their pain over the last day (24 hours) based of the 'itch man' picture scale (tick one).	0 1						
R R R	□ 2 □ 3 □ 4						
Not at all-0 Only a little-1 Quite a lot -2 Very much-3							
15. Ask the child to rate their sleep disterbance over the last day (24 hours) based on the following picture scale (tick one).	□ 0 □ 1						
	☐ 2 ☐ 3 ☐ 4						
Not at all-0 Only a little-1 Quite a lot - 2 Very much-3							

Acute pathology examination and scoring

			Sites on the right foot											
		Toe	Toe	Toe	Toe	To	е	Не		ateral	l	dial	Sol	е
		1	2	3	4	5			si	de	sid	е		
_ ≥	Erythema													
g	Warmness													
ĕ	Edema													
딅	Desquamation													
Acute pathology	Fissure													
丰	Suppuration													
\ \cdot \cdo	Ulcer													
1	Abscess													
					5	Site	s on	the	left fo	ot				
		Toe 1	Toe 2	Toe	Toe	Toe 4 Toe		5 Heel		Lateral		Medial		Sole
				3						side		side)	
	Erythema													
99	Warmness													
 	Edema													
Ĭ	Desquamation													
<u>&</u>	Fissure													
Acute pathology	Suppuration													
ટુ	Ulcer													
_	Abscess													

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G.	Clinical and symptomat	ic assessment - 3			
1.	Please assess each of the present).	e following foot parts for new and	l existir	ng jigger les	sions (tick if
	☐ Toe 1- A ☐ Toe 2- B ☐ Toe 3- C	☐ Toe 4- D ☐ Toe 5- E ☐ Heel- F		_	ral side - G al side - H - I
		Right foot			
	G I H	H G Left foot			
	A B G G	G H		F	
				·	
2.		iggers present on the child's feet		☐ Yes	□ No
3.	How many numbers of n last examination?	ewly embedded sand fleas sind	ce the		
					1C -f 21

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4. Mark all sites of new embe	dded jiggers and existing viable	Done
lesions on the feet diagram	ns on pages 13 and 14.	
	lesions with X and newly ember question 4) on the diagrams (e.g	
	Right foot	
0000		
	Left foot	
Additional comments:		

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G.	Clinical and symptomatic a	assessment - 3				
5.	Follow the selected viable lesions together with their target sites.					
	These should be indicated in the sites that are easily accessible for taking photograph and viability assessment using handheld video microscope. Use a descriptive name like "Toe 1" or "heels "as per question number 1. Mark the location of these sites on the feet diagrams on pages 2.					
	Target site 1:					
	Target site 2:					
_						
6.	Record the names of the tar Assessment Forms 1, 2 & 3	get sites on the last page of each of th for future reference.	e Clinical	☐ Done		
7.	Photograph the 2 target lesion	ons together with their target sites		☐ Done		
8.	8. Record the photograph number using stickers on the last page of each of the Clinical Assessment Forms 1, 2 & 3 for future reference.					
9.	Assess the viability of 2 targ	et lesions. Tick all that apply for each	site.			
Les	Lesion characteristics Lesion 1		Les	esion 2		
Loc	calization					
Exc	cretion of faeces (threads)					
Excretion of faeces (liquid)						
Exp	oulsion of eggs					
Pulsation of the flea						
Sta	Stage of the lesion					
10. How many Stage II jigger lesions are there on the child's feet (both right (R) and left (L) foot)?						
11. How many Stage III jigger lesions are there on the child's feet (both right (R) and left (L) foot)?						
12.	12. How many <i>total numbers of viable lesions</i> (sage II & III) are there on the child's feet					

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G. Clinical and sy	G. Clinical and symptomatic assessment - 3						
13. Ask the child to based on the 'i	rate their itching tch man' picture		y (24 hours)	□ 0 □ 1			
	0 0 0	3	4	☐ 2 ☐ 3 ☐ 4			
14. Ask the child to on the 'itch ma	o rate their pain on n' picture scale ((24 hours) based	□ 0 □ 1			
			The same of the sa	□ 2 □ 3 □ 4			
Not at all-0	Only a little-1	Quite a lot -2	Very much-3				
15. Ask the child to hours) based or		disterbance over cture scale (tick o		□ 0 □ 1			
				☐ 2 ☐ 3 ☐ 4			
Not at all-0	Only a little-1	Quite a lot - 2	Very much-3				

Acute pathology examination and scoring

			Sites on the right foot							
		Toe 1	Toe	Toe	Toe	Toe	Heel	Lateral	Medial	Sole
			2	3	4	5		side	side	
,	Erythema									
6	Warmness									
Acute pathology	Edema									
돭	Desquamation									
ğ	Fissure									
ŧ	Suppuration									
5	Ulcer									
•	Abscess									
			•		S	ites on	the left	foot		
		Toe 1	Toe	Toe	Toe	Toe	Heel	Lateral	Medial	Sole
			2	3	4	5		side	side	
_	Erythema									
g	Warmness									
픙	Edema									
£	Desquamation									
Acute pathology	Fissure									
<u>t</u> e	Suppuration									
ر د	Ulcer									
4	Abscess									

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H. Adverse Event Log

Date of entry	Adverse Event	Grade/ Severity	Serious	Date/time of Onset	Date/time of Resolution	Relation to study drugs	Action taken	Treatment given	Outcome
dd/mm/yyyy	Diagnosis (if known) or Signs/symptoms (list one per line)	1=mild 2=moderate 3=severe	(Y/N) *	dd/mm/yyyy 24-hr time	dd/mm/yyyy 24-hr time	1=related 2=not related 3=other Specify	1=none 2=interrupted 3=patient withdrawn 4=medication discontinued 5=other???	(Y/N)	1=resolved 2=resolved w sequelae 3=ongoing 4=death 5=unknown
//									
					// :				
//				// :	// :				
//				// :	// :				
					// :				

*For any Serious Adverse Ever	ts, participant must be	e immediately referre	ed to nearby healthcare	facility for med	di
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I. Final Study Outcome

Question	Response (tick one)
Has the subject completed the study?	☐ Yes ☐ No
If yes, indicte the completion date dd/mm/yyyy	
If NO, specify last follow up date dd/mm/yyyy	
What are the reasons for not completing the	☐ Significant non-compliance
study?	☐ Drug-related AE
	☐ Treatment failure
	□ Consent withdrawn
	☐ Lost to follow-up
	☐ Other (specify)
Remarks	
Investigator's Statement I have reviewed the data recorded in this CF	RF and confirm that the data are complete and accurate
Investigator (Full name)	
Investigator signature	
Signature Date /dd/mm/yyyy/:	

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