

Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Kamgno et al. “**Test and not treat” for onchocerciasis control in a *Loa loa* endemic area**

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Table S1. Individuals examined and treated and number of AEs per village by health area

Health area	Village	No. Exam	Loa microfilaremia (%)	Ov16 (%)	No. AEs
Ekekam III	Bidzinguele	23	30.4	21.7	0
Ekekam III	Ekekam III	138	27.5	18.5	23
Ekekam III	Essakoss	33	21.2	15.6	1
Ekekam III	Eyang	104	22.1	19.4	6
Ekekam III	Ngoas	132	27.3	26.6	25
Ekekam III	Nkolbiyen	66	25.8	14.1	0
Ekekam III	Nkolbot	44	27.3	9.1	2
Ekekam III	Nkolfoundi	72	27.8	38.6	10
Ekekam III	Nkolmelen	21	33.3	23.8	5
Ekekam III	Nkolmeyang	132	20.5	18.0	9
Ekekam III	Nkolomang I	29	20.7	10.3	2
Ekekam III	Nkolomang II	39	25.6	17.9	0
Ekekam III	Nkonmesse	110	26.4	22.7	6
Ekekam III	Otou Ngonon	28	14.3	22.2	1
Ekekam III	Ozasingui	56	33.9	32.1	7
Ekekam III	Ozom I	237	8.0	12.5	2
Ekekam III	Ozom II	185	25.9	14.0	13
Ekekam III	Ozom III	53	30.2	13.7	10
Ekekam III	Qbam	56	17.9	18.2	10
Lobo	Akok	117	15.4	33.3	4
Lobo	Elig Abode	99	19.2	35.1	18
Lobo	Koudi	172	30.2	28.8	6
Lobo	Lobo	406	15.8	30.7	31
Lobo	Menguek I	88	21.6	26.2	10
Lobo	Menguek II	79	24.1	28.2	9
Lobo	Menvoa	65	29.2	45.3	10
Lobo	Nkongkadak	114	24.6	43.9	6
Lobo	Ovang	136	15.4	20.0	15
Lobo	Tikong	123	28.5	26.0	6
Lobo	Tsek	273	22.3	25.1	11
Mvoua	Bilono I	190	18.9	21.1	17
Mvoua	Bilono II	189	22.2	17.0	10
Mvoua	Ekabita Tom	212	18.4	12.6	18
Mvoua	Louma	393	19.3	24.8	46
Mvoua	Mvoua	463	20.7	23.8	44
Mvoua	Nkol Bega	317	15.5	11.9	7
Mvoua	Ntsama	308	16.6	23.9	31
Mvoua	Oban I	143	25.2	21.7	15
Mvoua	Okoukouda	212	20.3	17.7	7
Mvoua	Oyama	219	15.1	21.3	25

Table S1 (Continued)

Health area	Village	No. Exam	Loa microfilaremia (%)	Ov16 (%)	No. AEs
Ngoya	Beyidzolo	326	13.5	16.2	2
Ngoya	Ebot	112	30.4	16.7	4
Ngoya	Essong Aboudi	157	18.5	11.7	2
Ngoya	Etoud	146	22.6	23.4	8
Ngoya	Leboudi	590	7.7	22.3	13
Ngoya	Metak	158	24.1	16.3	2
Ngoya	Minsole	151	20.5	11.3	17
Ngoya	Mintotomo	242	15.7	16.2	5
Ngoya	Ngoya I	496	11.7	13.9	10
Ngoya	Ngoya II	265	14.7	10.2	8
Ngoya	Nkloessong	281	14.9	16.1	8
Ngoya	Nklondom	121	25.6	18.2	1
Ngoya	Nkolenyeng	81	13.6	9.9	1
Ngoya	Nkolngon	319	13.2	12.8	11
Ngoya	Nkong	119	18.5	22.4	3
Ngoya	Nouma	380	20.4	17.1	13
Ngoya	Yagassi	288	18.8	13.0	27
Ngoya	Zamengoue	290	7.3	10.0	16
Nlong	Akak	14	35.7	42.9	0
Nlong	Ebenga	25	16.0	40.0	0
Nlong	Ekoumtik	221	18.6	32.9	12
Nlong	Elig Menyenke	87	18.4	14.6	1
Nlong	Elig Vondo	91	18.7	23.6	4
Nlong	Kelle	69	21.7	32.4	1
Nlong	Mbama	91	16.5	11.1	4
Nlong	Ngondzie	40	17.5	22.5	4
Nlong	Ngoulmakong	90	21.1	14.4	2
Nlong	Nklongock	95	30.5	28.3	2
Nlong	Nkolbeyegle	53	13.2	17.0	0
Nlong	Nkolget	40	27.5	25.0	10
Nlong	Nlong	88	20.5	17.9	2
Okola	Leboth	323	17.6	25.1	30
Okola	Ledom I	292	13.4	39.6	15
Okola	Ledom II	250	17.2	33.5	13
Okola	Legom	394	11.7	28.5	18
Okola	Lekie Assi	296	15.2	25.4	12
Okola	Nkoldjobe	311	22.5	23.9	12
Okola	Nkolessong	137	16.8	30.9	0
Okola	Nkolfeb	147	21.8	17.9	6
Okola	Nkolmekouma	126	17.5	27.6	10
Okola	Nkolnyada	337	22.6	23.0	17
Okola	Nkolodou	153	21.7	30.7	5
Okola	Obak	346	22.5	22.6	23
Okola	Oban II	293	21.5	33.6	26
Okola	Okola – Centre	345	6.1	22.2	18

Okola	Okola – Camp Sap	142	4.9	29.3	3
Okola	Okola – Haoussa	464	11.4	24.0	23
Okola	Okola – Nylon	238	14.3	23.6	15
Okola	Okola – Zanzibar	260	15.0	30.7	19

Figure S1. Principle of use and outputs of LoaScope.

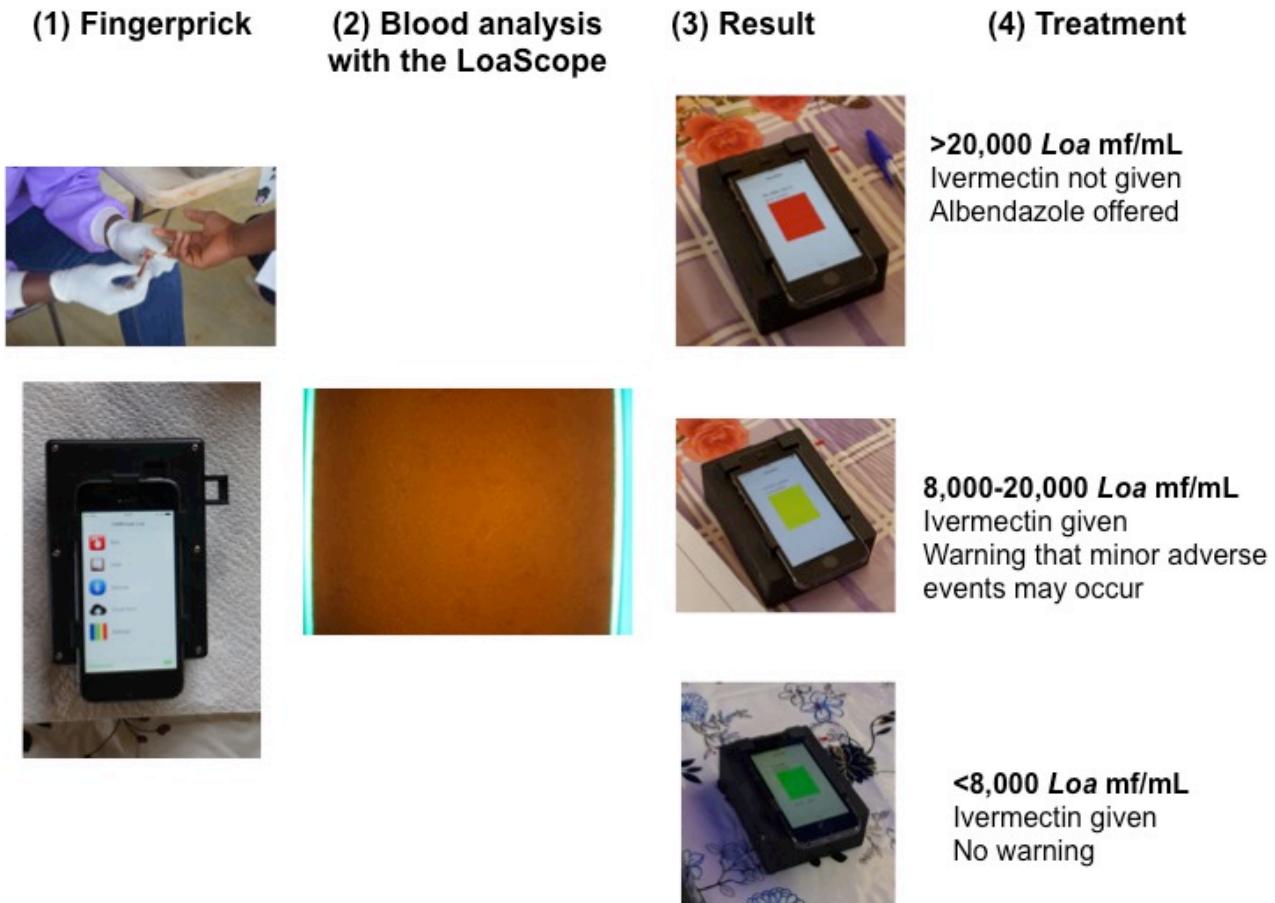


Figure S2. Location of the 92 villages included in the TaNT survey with Ov16 prevalence.

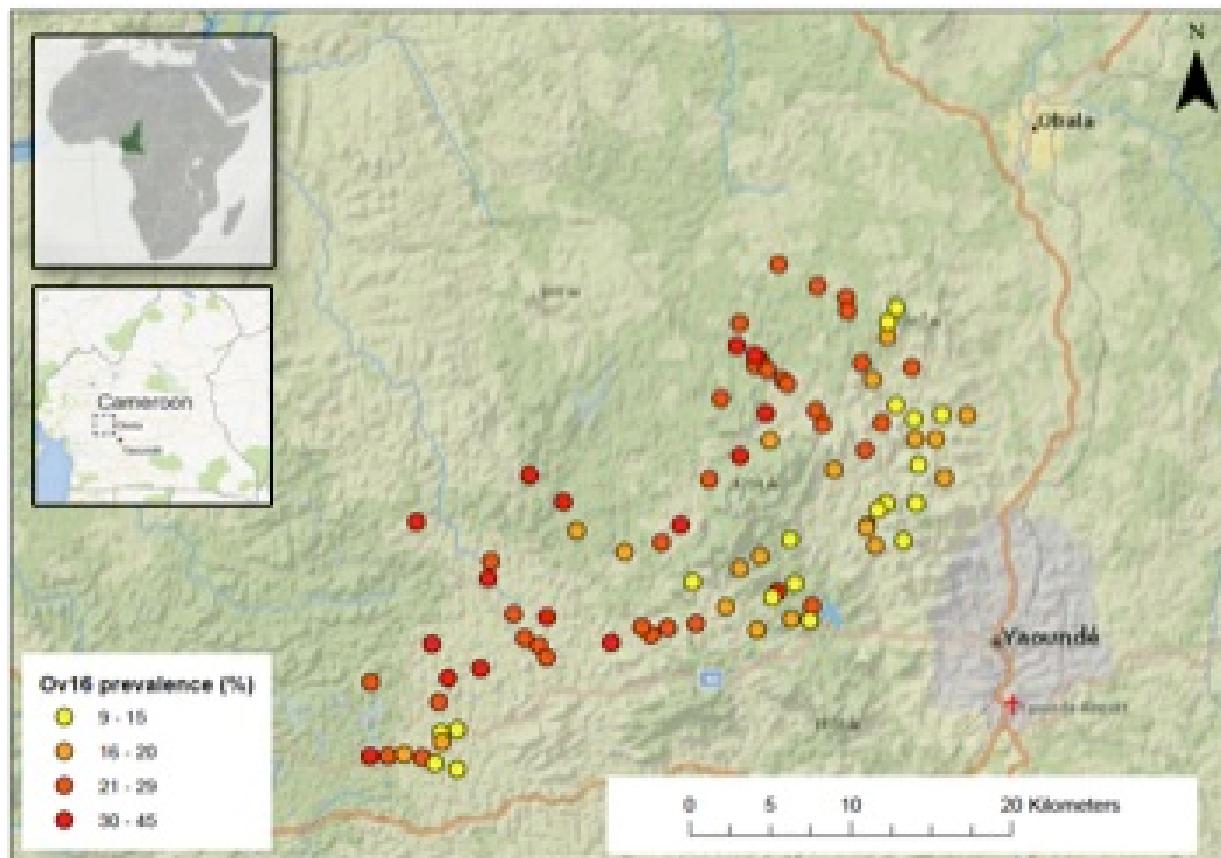


Figure S3. Timeline of the Test and not Treat strategy during year 2015

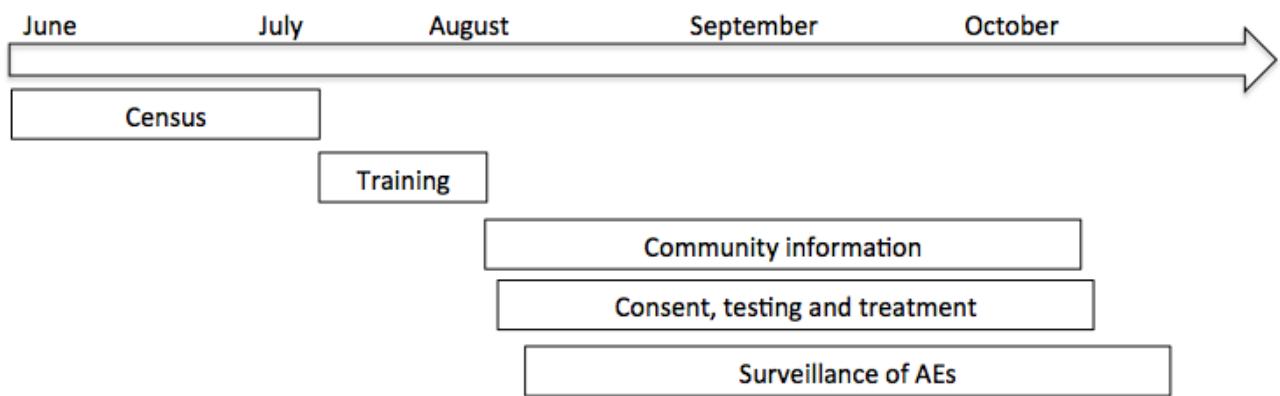


Figure S4. Individual card given to all participants

Date : _____	Village : _____
N° TNT- _____	N° ménage _____
Nom : _____	_____
Prénom : _____	Age _____ ans
Résultat LoaScope	_____ mf/mL
Nb cp de Mectizan reçus	_____
Signature du participant	_____
Une équipe de surveillance passera 1, 2, 3, et 6 jours après le traitement dans votre village	En cas de réaction au traitement, revenez avec votre carte individuelle
Tél. de l'équipe:	696 50 51 85

The logo is circular with the acronym "CRFIIMT" in the center. Around the center, the text "CENTRE DE RECHERCHE SUR LES PATHOSES ET MALADIES TROPICALES" is written in a circular path, with "RENAUD" at the bottom.

Figure S5. Standardized form to record all adverse events following ivermectin treatment

« Test and treat » - Effets secondaires

Première visite Visite de suivi Date du jour : _____ / _____ /2015
 Effectuée par (initiales) : _____

Date du traitement par Mectizan _____ / _____ / 2015 Village _____
 N° TNT- _____ Numéro de ménage : _____ LoaScope JO: _____

Nom et prénom _____ Sexe _____ Age _____(ans)
 Patient vu au point de consultation au domicile alité
 Interrogatoire : patient entourage
 Plaintes spontanées (noter heure de début, écrire au verso si nécessaire):

Questionnaire (entourer chaque réponse, ajouter + après si marqué)

Asthénie: Oui / Non Anorexie: Oui / Non Céphalées: Oui / Non Lombalgies: Oui / Non
 Autres arthralgies: Oui / Non Myalgies: Oui / Non Prurit: Oui / Non
 Troubles visuels: Oui / Non si oui, préciser _____
 Troubles auditifs, vertiges: Oui / Non si oui, préciser _____
 Antécédents médicaux: Oui / Non si oui, préciser _____
 Carnet vu : Oui / Non
 Traitement antérieur par IVM: Oui / Non / NSP si oui, date(s) : _____

Examen systématique

Rash: Oui / Non œdèmes: Oui / Non Adénites: Oui / Non (préciser localisations au verso)
 Hémorragie conjonctive palpébrale: Oui / Non, Précisions: _____ Photo faite: Oui / Non
 Difficultés à marcher: Oui / Non si oui, par: Douleur / Fatigue
 Difficultés à se lever d'une chaise: Oui / Non si oui, préciser cause _____
 Mutisme: Oui / Non Obnubilation: Oui / Non Agitation: Oui / Non
 Troubles de la conscience: Oui / Non si oui, Glasgow mesuré : Oui / Non Résultat: _____ /15
 Incontinence urinaire: Oui / Non autres troubles neuro : Oui / Non (si oui, préciser au verso)
 Autres troubles (digestifs, etc.): Oui / Non si oui, préciser: _____
 Karnofsky (%): _____ Température: ____ °C TA couché: ____ / ____ TA debout/assis: ____ / ____

Examens supplémentaires nécessaires ($T \geq 38/5^\circ$ ou indice Karnofsky $\leq 70\%$): Oui / Non

Si oui, remplir une fiche « Examens supplémentaires »

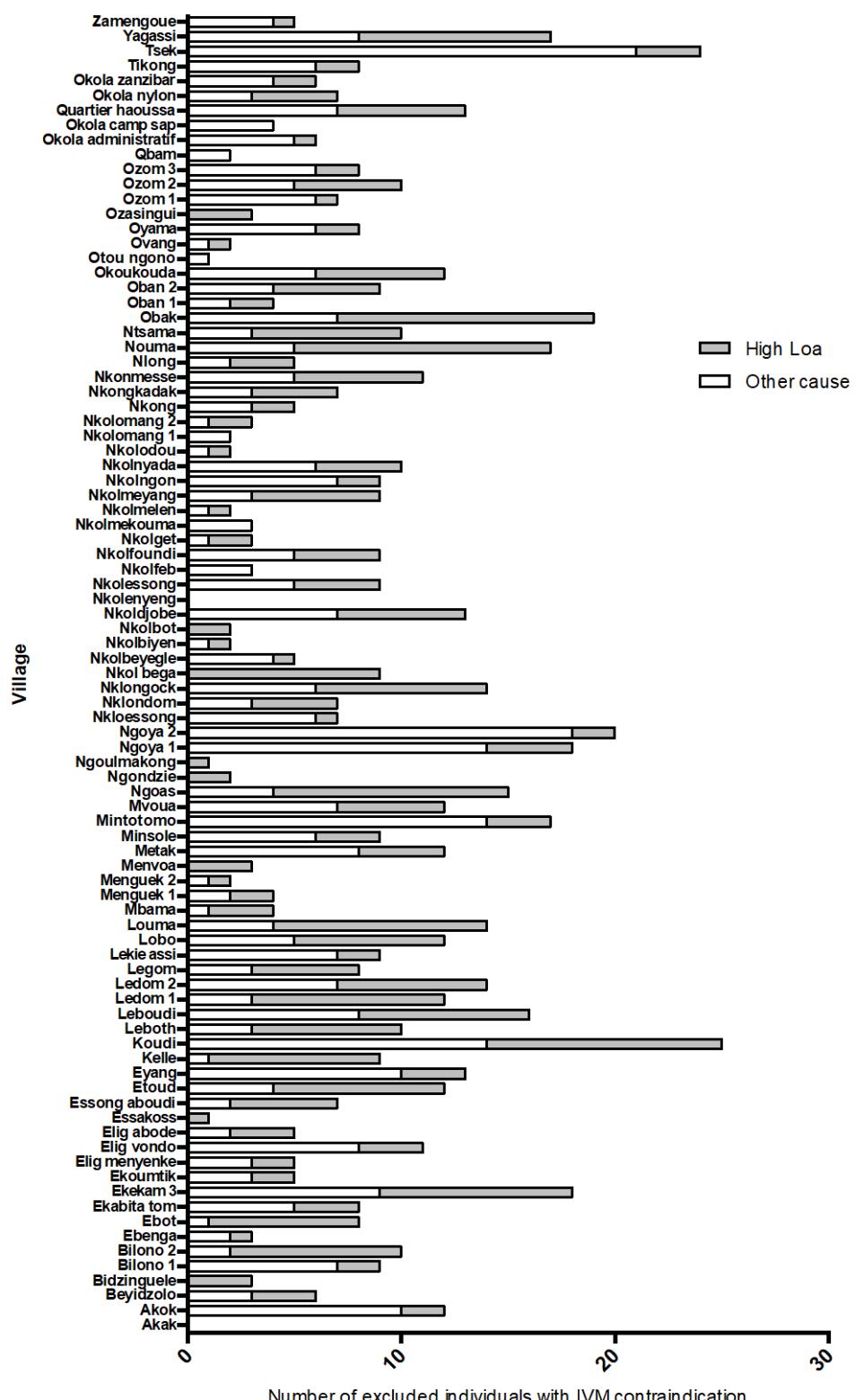
Traitemen en cours: paracétamol / ibuprofène / chlorpheniramine / multivit. / quinine / SRO / artemether / amoxicilline / doxycycline / sulfate ferreux / hydroxyde d'Alu / métronidazole

Traitemen donné ce jour: paracétamol / ibuprofène / chlorpheniramine / multivit. / quinine / SRO / artemether / amoxicilline / doxycycline / sulfate ferreux / hydroxyde d'Alu / métronidazole

Hospitalisation: Oui / Non Si oui, préciser : _____

A remplir par l'opérateur de saisie: Informations au verso vérifiées Fiche saisie

Figure S6. Number of excluded individuals in each village, classified by cause of exclusion (high *Loa* microfilaremia or other cause)



Movie S1. Link to a movie of the process from introduction of the capillary to the result.

<https://www.dropbox.com/s/mctgg4i9ibz3768/LoaScope%20process.MP4?dl=0>

Supplementary Methods: announcement of the TaNT campaign to the population

During a house to house census, the objectives and study design were explained informally to the head of each household, specifically highlighting the benefits of ivermectin treatment at the individual level (effect on filarial and intestinal worms, clinical improvement) and at the community level (impact on transmission) along with the potential risks of ivermectin-based MDA. During the week prior to the TaNT campaign, village authorities provided the population with logistical information, and flyers (available on demand) explaining the TaNT strategy were distributed to all households.