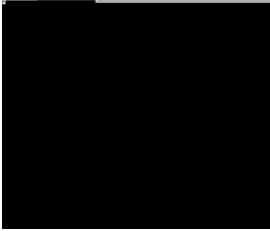


'(3\$570(17 2) +(\$/7+ +80\$1 6(59,&(6

3XEOLF +HDOWK 6H
&HQWHUV IRU 'LVHDVH
\$QG 3UHYHQWLRQ 8

0HPRUDQGXP



'DW1RYHPEHU

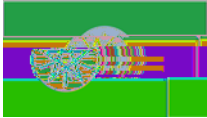
)URP.+2 &ROODERUDWLQFK&FXQVLDUWRU(UDLFDWLRLQ

6XEM*8F1\$:250 :5\$3 83

7R\$GGUHVHHV

(YHU\ XQFRQWDLQHGR*FXDQHDV&RUPHFDQW/SUHDG LQIHFW

*8,1(\$:250 287%5(\$. ,1 (7+,23,\$



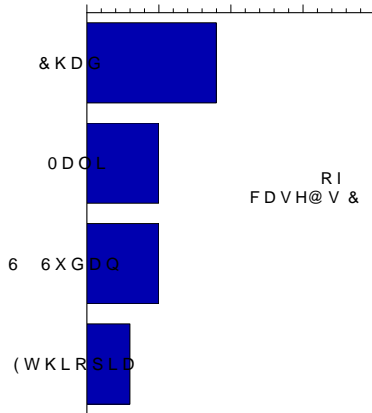
\$IWHU HOHYHQ FRQVHFXWLYH PRQDWRZLWV&K VQFDU
WKH (WKLRSLDQ 'LDFDXQLRQO BDRUV QHFDVGHG DKDARWED
DSSDUHQW FDVHV EHWZHHQ 6HSWHPEHUW BQB
WKH FDVH SDWLHQWV DOOHJHGO\ KDXQVZR\$POHR
WKH SDWLHQWV DUH PDOHV EHWZHHQURDRQGDQGHDLW \$RQ&
RQH ZDV FRQWDLQHG 1LQH SDWLHQWVZKHUHHW&HWUHFWHG
ZHUH GHWHFWHG LQ *DPEHOOD 5HKLRLRQX)WEXUHDN ZDVEQRQ\
ZKHQ WKH LQGH[FDVH DSSHDUHG DQD WKRIZ QHIJLUR QDLOH &W
6HSWHPEHU 6XEVHTXHQWO\ LWZDEU&NBQZRGJRWK&D/GWEZ
DW KHDOWK FHQWHUV LQ <HWL N&BHGHWXIEFGVVRMU2LFRMP LDC
6HSWHPEHU DQG VHQW KRPH 7KWRV&RDSODWKLHDQWKRZUHLWH
QRW TXHULHG DV WR WKH SRWHQW LFDQWWRDXLQPHVQ WIPWHQV/LXU

)LJXUH

5(3257(' &\$6(6 2) '5\$&81&6/6\$%< &28175<

1XPEHU RI FDVHV

1XPEHU RI FDVHV



RI FDVH@V & ' ' ' &a\ Q @À T Q @À H&AFRQWDLQH Q @À T Q @À † Q @À DTW@ARQWEDQ EG
RI FDVH@V & ' ' ' &a\ Q @À T Q @À H&AFRQWDLQH Q @À T Q @À † Q @À DTW@ARQWEDQ EG
RI FDVH@V & ' ' ' &a\ Q @À T Q @À H&AFRQWDLQH Q @À T Q @À † Q @À DTW@ARQWEDQ EG
RI FDVH@V & ' ' ' &a\ Q @À T Q @À H&AFRQWDLQH Q @À T Q @À † Q @À DTW@ARQWEDQ EG
3URYLVLRQDO DV RI
2FWREHU

Table 1

Case #	Village or Locality of Detection	Kebele (Subdistrict)	Woreda (District)	Region
a		j		#
	1	a		μ#
		j		
		j		
a		}		
	F	μ		¶
				¼
				¶
	F	μ		¼
				¶
	7	μ		¼
				¶
	F			¶
				y

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL*	
CHAD	0 / 0	1 / 1	1 / 1	1 / 2	2 / 2	1 / 2	2 / 2	0 / 1	0 / 2	1 / 1	/	/	9 / 14	64%
SOUTH SUDAN	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	/	/	0 / 0	0%
ETHIOPIA [^]	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 7	1 / 5	/	/	1 / 12	0%
MALI [§]	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	/	/	0 / 0	0%
TOTAL*	0 / 0	1 / 1	1 / 1	1 / 2	2 / 2	1 / 2	2 / 2	0 / 1	0 / 9	2 / 6	/	/	10 / 26	75%

% CONTAINED

*Provisional

[^] Only one of the 12 cases confirmed to date. Laboratory confirmation of worms emerging from other patients pending.

Cells shaded in black denote months when zero indigenous cases were reported. Numbers indicate how many cases were contained and reported that month.

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL*	
CHAD	0 / 0	1 / 1	0 / 0	1 / 1	1 / 1	0 / 1	1 / 2	1 / 3	1 / 2	3 / 4	0 / 0	0 / 1	9 / 16	56%
MALI [§]	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0%
SOUTH SUDAN	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	3 / 4	0 / 0	0 / 0	0 / 1	0 / 0	0 / 1	0 / 0	3 / 6	50%
ETHIOPIA	0 / 0	0 / 0	0 / 0	0 / 0										



\$OVR SDWLHQW ZDV ILUVW VHRQDZLKRK/SLEVDLOVWGLU2DWR'E
DIWHU WKH LQGHIGFDQZDZSRGHWHGADWY VDIQG VZDPHVHRQWS DZD
PHGLFDWLRQ EHIRUH KH ZDV ILQDOFORGLZDFMQRE/HIG ZLWK DQ

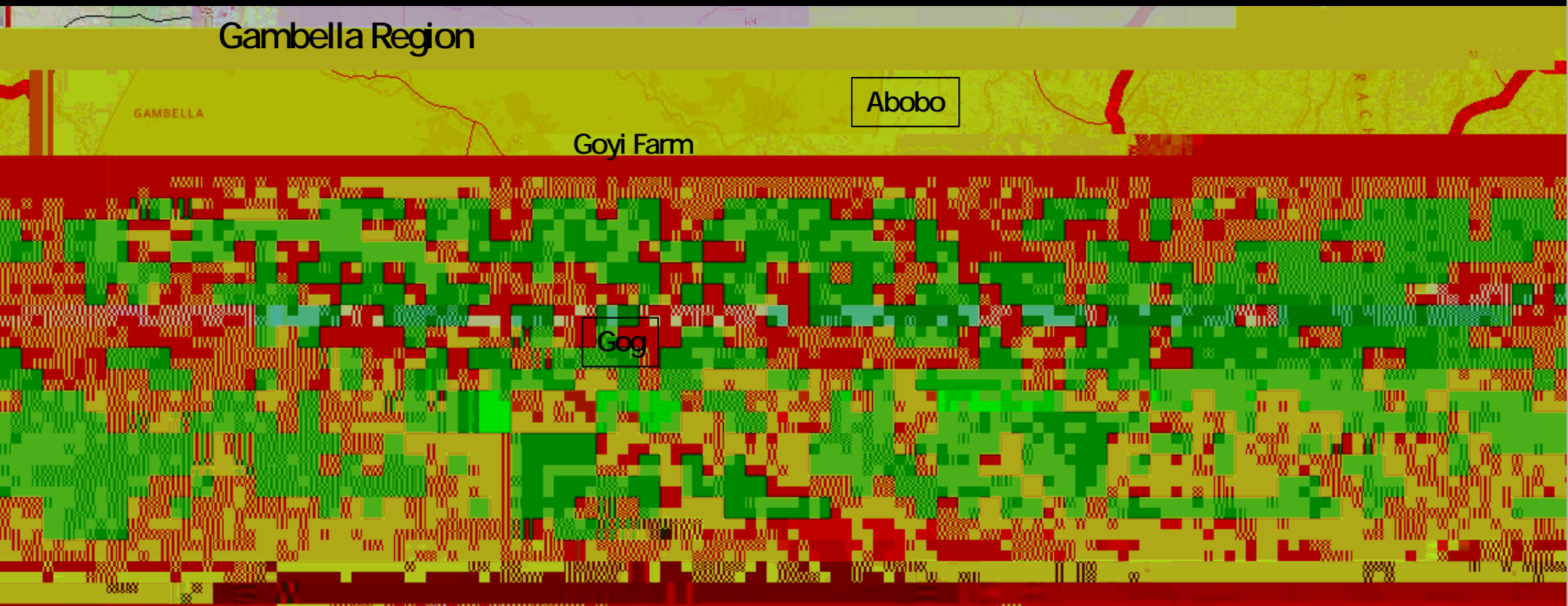
7KH LQGH[FDVH D \HDU ROG PDD UHVDGWHQDW RQDORPDE
<HWL VXE GLVWUWFWL RW \$QILZQRPRDZDMJHRQOREVXNG ZKW D URF
DGMDFHQW ,WDQDGDVWULRW BKHDPKLV LQIHFWRQ Z

ZRUNLQJ JURXSV D Q G D Q D V R I Q R Q B P E N F W R Q Q L S R Q W M H D G G G
GHDO ZLWK WKH RXLV E D U H D I N V B I Q G H L I W F V S R V

2Q 6HSWHPEHU 0U *HWDQHK \$EUKDR(VVWQH H(Z(31 DOWHGR Q DWOI
<HWL .HEHOH \$QILRQ L R 5 H J M V R Q L F W R Q Q B R D W H I L D Y Q H G U W M D G H G
VXVSHFWHG WR KDYH *:' WR WKH F D V H U I E R Q W D L X Q E P H Q T V H Q M Q
2FWREHU WKH 1DWLRQ D O & R R U G D Q G W O R U < M R K Q W G O E A O X J C
WKH &DUWHU &HQWHU (WKLRSLD DQGLRS E B \ H R H W . H E M O K H \$
'LVWULFW &RXQFLO DQG +HDOW K D M W D J I R W F R H F R W P E W M K H D U B
FRRUGLQDWLQJ D R U H * V S B Q R Q J W S R F L O X O H R U U H V L G H Q W

7KH IDLOXUH RI VWDII DW WZR K H C H S D K W F L O H Q W F W I K H \ 2 U B P L M

Ethiopia Dracunculiasis Eradication Program



& + \$ ') (: (5 (0(5*,1* :2506) (: (5 ,1) (&7(' '2*6



&KDG ¶ V *XLQHD :RUP (UDGLFDWLRQ BUH&XUFDL RQV I
IURP WR LQ WKH QXPEHUIURR P XGQJVD Z
DQG IURP WR LQ WKH QXPEHUIURR P XGQJVD Z
6HSWHPEHU DQG WKH VDPH SHULRFGWRRQ LQ)
QXPEHUV RI LQIHFWHG GRJV FRPSDUHG DFRV XMKHOV
EHJDQ LQ 1RYHPEHU)LJXUH IURKPLWK M DQ LP
LQFUHDVHV LQ QXPEHUV RI LQIHFWHG GRJV V RUKHUS RHDWVHG)LQ
LW UHIOHFWV WKH FXPXODWLYH HESIDQ & KDI GQ VIZQLFQIWHIHTX
LQ GRJV ZHUH ILUVV UHFRJQLJHG XFBMULR Q Q UJLQ H EKXWQ B
DQG FRRNLQJ ILVK ZHOO LQ WR IURKPLWK M DQ LP
ODJRRQV IRU WUHDWPHQW ZLWK \$EDWHU LQHWKH BILQJU DQJ
LQIHFWHG GRJV VLQFH -DQXDU\ LQDQG H[SDQGHG GIHQJH M
PDVV WUHDWPHQW RI GRJV 7KH LQQRD DQDLVRIQRV ZIRQV LQ
FRPPXQLFDWLRQ FDPSDLJQ LQ -XOILVK JXWVD SZSLDFU VVWYD
LV SUDFWLFHG E\HKYRUGV LRIKVR XULV DQJ MDHWKHQIEUJ LQIH
SUHYHQW WKHP IURP HQWHULQJ ZDW BBSZLWHG HPRUJLBU IZ
GRJV LQ DQG VR IDU LQ YHZWHHRQVNHUHV SARKHV IEDQ
UHGXFWRQ LQ WUDQVPLVVLRQ WR RGRPEHU XKRRI IZRHU VHIPIHG
LQIHFWHG GRJV KDV DOVR GHFOLQH & LQHXZRU PV 7DQGIH Z
FRQWDLQPHQW RI WKR VH IHZHU ZRUPV FDKLRQ HFDUP S DUKHQ
H[SDQGHG DSSOLFDWLRQ RI \$EDWHU QUDMUH HWKHGGGRU Z QZ D U
LQIHFWLRQ \$EDWH ZDV XVHG LQ LQHVSRQVHDWHRV FRO WDPX
DQG ZLOO EH H[SDQGHG WR RYHFWHG YLGRQVJHQ WIKM KQ HR

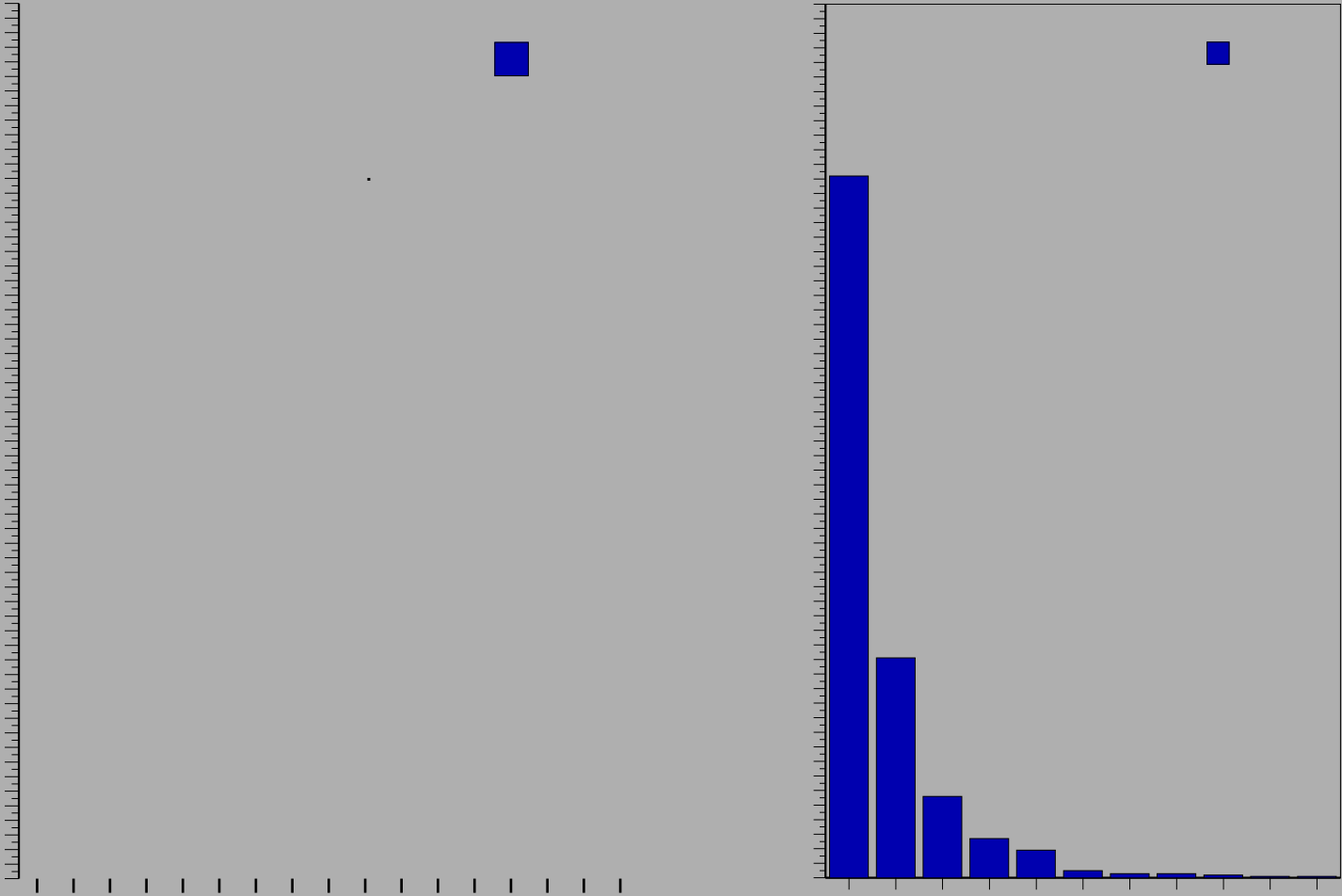
&KDG KDV UHSRUWQHG ZRDFHGLRHD XHULQKXPV DOW VRI ZKLF
ZHUH FRQWDLQHG 7DEOH 7KH R[VDUIH ZUGSRQDDG LDFQGD XQ
LQ KXPQV LQ GLIIHUHQW &KDG LQQRQY ZD B D HV H&KDG \ B D VRL
LQIHFWHG GRPHVWLF FDWV VRHIDW NQRLZQ\ HDYHU V% RQDW R
ZDWHU KRZHYHU LQIHFWHG GRPHVWLF EQWHV DLRHQ XEQOEN
ZDWHU

6287+ 68' \$1 0,1,67(5 /\$88 & \$7,21\$ / &20081, &\$7,21
&\$03\$, *1



7KH 0LQLVWHU RI +HDOWK RI 6RXWRK IXQRDIFL RQR
DW D FHUHPRQ\ LQ .DSRHW D WR OD XFDQK S DUKHQ Q DW
3D\ V WR 5HSRUW *XLQHD :RUP' RQ 6 B W X UGRXW R F V
6XGDQ ¶ V QRWDEO HDSULRQJ HXV LQ HQ Z BDKH LGD V XID F/KL C
RI WKH FDPSDLJQ WR VXSSRUW VQRXVGH F HIGI RUKVDW 67
6XGDQ ZRXOG QRZ RIIHU DQ HYHQ OQ U XHG D Q B V K U
3RXQGV a86 IRU UHSRUWLQJ D B B X M R 16 XGLDQH B DZGR U R FG
FDVK UHZDUG WR 6RXWK 6XGDQ I H V H LQR XQ GRU B V: URD SO B
\$Q HVWLPDWHG SHUVRQHV RDKVWHUQ B H V Q RWKHH

Figure 3



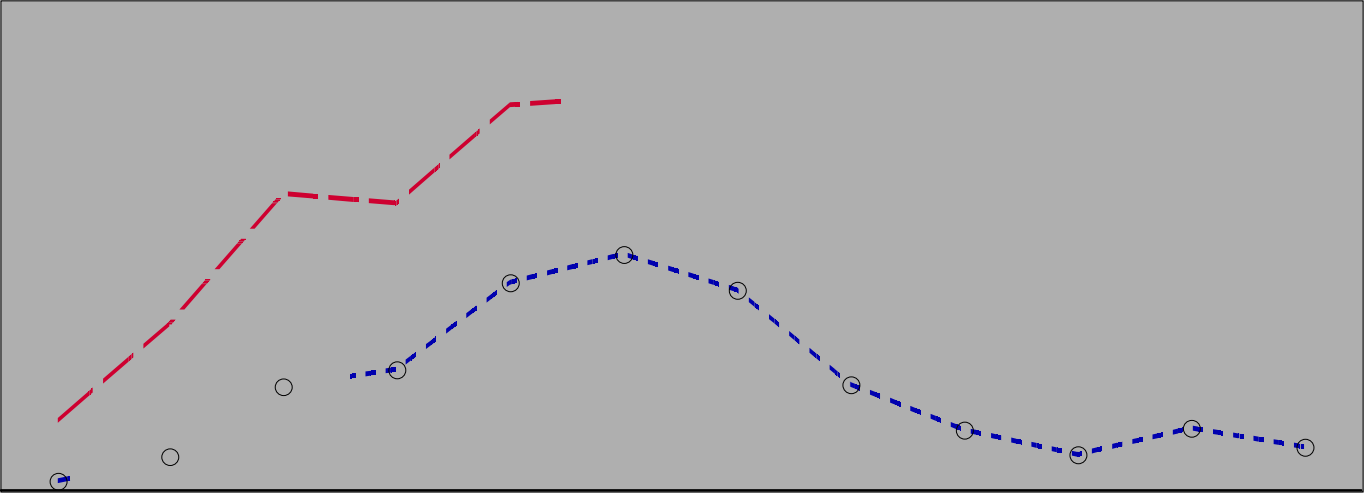


Table 3

	Name	1 or 2=VAS	3=VNAS	Mandelia	Chari Baguirmi	Age	Sex	Date GW emerged (D/M/Y)	(Yes, No, or Pending)	If no, date of Abate Rx	Name	1 or 2=VAS	3=VNAS	Presumed Source of infection identified?		Actions/ Comments?		
														(Yes or No)	Name (Yes or No)			
1.1	Loumia	1				10	F	27 Feb 17	Yes		2	Loumia	1		No	N/A	N/A	Patient and family eat frogs and catfish (<i>Synodontis</i>) as well as Nile water monitors (<i>Varanus</i>).
1.2	Loumia							5 Mar 17	Yes				1					
2	Kakale Mberi	1		Guelendeng	Mayo Kebbi Est	6	F	22 Mar 17	Yes		2	Kakale Mberi	1		No	N/A	N/A	Patient's dog had two worms emerge during the same week.
3	Bougoumene 1	2		Dourballi	Chari Baguirmi	10	M	31 Mar 17	Yes		2	Bougoumene 1	2		No	N/A	N/A	Patient household is between those of two infected dogs.
4	Tarangara	1		Danamadji	Moyen Chari	7	M	27 Apr 17	No	6 May 17	2	Tarangara	1		No	N/A	N/A	Patient resides in a quartier where 100% of the known dog population was infected in 2016.
5	Kira	1		Sarh	Moyen Chari	12	M	11 May 17	Yes		2	Kira	1		No	N/A	N/A	18 animal infections were reported in Kira in 2016, as well as 1 human case in 2014.
6	Choukara	1		Amtiman	Salamat	43	M	2 Jun 17	Yes		2	Choukara	1		No	N/A	N/A	
7.1	Bembaya	1		Sarh	Moyen Chari	62	M	10 Jun 17	Yes		2	Bembaya	1		No	N/A	N/A	Patient's nephew is Case 5 and they swim and participate in the collective fishing together. Pt also lives in close proximity to 3 infected dogs.
7.2	Bembaya	1		Sarh	Moyen Chari	62	M	13 Jun 17	Yes		2	Bembaya	1		No	N/A	N/A	
7.3	Bembaya	1		Sarh	Moyen Chari	62	M	6 Jul 17	Yes		2	Bembaya	1		No	N/A	N/A	
8	Ngargue Marche	1		Bouso	Chari Baguirmi	35	M	22 Jun 17	No	29 Jun 17	2	Ngargue Marche	1		No	N/A	N/A	
9	Djoballa 4	1		Bouso	Chari Baguirmi	42	M	27 Jul 17	Yes		2	Djoballa 4	1		No	N/A	N/A	
10.1	Gouari	2		Sarh	Moyen Chari	50	F	29 Jul 17	Yes		2	Gouari	2		No	N/A	N/A	4 infected dogs were reported in Gouari
10.2	Gouari	2		Sarh	Moyen Chari	50	F	19 Aug 17	Yes		2	Gouari	2		No	N/A	N/A	
11.1	Birme		3	Massenya	Chari Baguirmi	34	F	25 Aug 17	No		2	Birme		3	No	N/A	N/A	
11.2	Birme		3	Massenya	Chari Baguirmi	34	F	2 Sep 17	No		2	Birme		3	No	N/A	N/A	
12.1	Woin	2		Sarh	Moyen Chari	25	F	4 Sep 17	No		2	Woin	2		No	N/A	N/A	
12.2	Woin	2		Sarh	Moyen Chari	25	F	19 Sep 17	No		2	Woin	2		No	N/A	N/A	
13	Anguitey		3	Amtiman	Salamat	20	F	21 Sep 17	No		2	Anguitey		3	No	N/A	N/A	
14	Woin	2		Sarh	Moyen Chari	29	M	1 Oct 17	Yes		2	Woin	2		No	N/A	N/A	1 infected dog reported in Woin in 2016

VAS = village under active surveillance in level 1 or 2 areas
VNAS = village not under active surveillance, level 3 areas

,7)'(5(6(\$5&+(56 ',6&866 *:(3

/\$%25\$725< &21),50\$7,21 2) :250 63(&,0(16 \$7 7+(
&(17(56)25 ',6(\$6(1&22/ \$1' 35(9(17,21

:H OHW WKH UHDC H I Q V K I L S U N Q R Z O W X Z P U S P D W S L H F Q W M Q X V S H F W

,QFOXVLRQ RI LQIRUPDWLRQ LQ WKH *XLQHD :RUP
GRHV QRW FRQVWLWXWH SXEOLFDFWLRQ RI WKDW
,Q PHPRU\ RI %2% .\$,6(5

1RWH WR FRQWULEXWLRQV WR ERKQDURP DRO WZUDSXS#FGF JRY RU WR 'U
HUXLJWL#HPRU\ HFXWKE\ PRQWK QV KSK EQLG BZLQJOPDQWLKJXWLRUMX MVR&W KLV LVV
QDWLRQDO *XLQHD :RUP (UDGLFDWLRQ DQJLQDQMVWUR 5XLQDOSHQ RRSKH &DUW
5R\ RI '& 'U 'LHXGRQ:p 2DQDQ UU ODUN (EHUKDUG

WHO Collaborating Center for Dracunculiasis Eradication, ~~cc~~ for Global Health, Centers for Disease Control and
Prevention, Mailstop C-09, 1600 Clifton Road NE, Atlanta, 30329, USA, email: gwwrapup@cdc.gov, fax: 404-728-8040. The