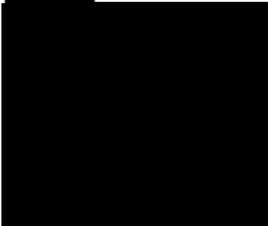


'(3\$570(17 2) +(\$/7+ +80\$1 6(59,&(6

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

0HPRUDQGXP



'DW-HDQXDU\

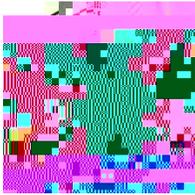
)URP :+2 &ROORDEW &GVOHU IRU 'UDFXQFXQ'LDV LV (UDGLF

6XEM\*8F\*W(\$ :250 :5\$3 83

7R\$GGUHV VHHV

'HWHFW DQG &RQWDBQR(Y,QUHF\*WLRQD,PPHGLDWHO\

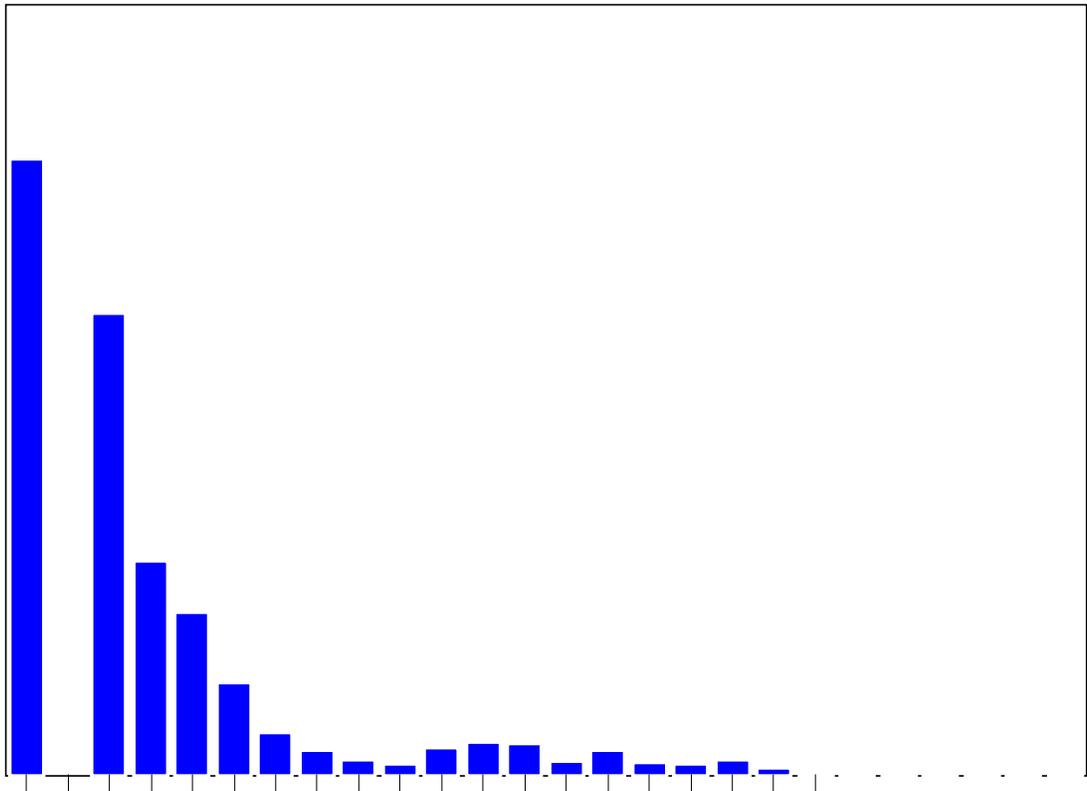
0\$/, 5(32576 =(52 &\$6(6 ,1



)RU WKH ILUVW WLPH VLQFH LWV \*X(3Q HEDH JRDQP (U  
LQWHUYHQWLRQV LQ ODOL KDV URS&UWHGV JH  
\*:' IRU DQ HQWLWHDU DQ QGD )LJQG H)LJXU DHEVOH DQ  
ODOLV ODVW NQRZQ FDVH EHFDP RIL DOP E QN VR  
5HJLRQ RQ 1RYHPEHU D SDWVHQWU HZ&RUZDHW  
FRQWDLQH G LQ HDZEDERPH QHZVIRQ WDLQWV H ULSXS

)LJXUH

0\$/, \*8,1(\$ :250 (5\$',&\$7,21 352\*5\$0  
180%(5 2) &\$6(6'2&81&8/, \$6,6 5(3257('



RI \*XLQHD ZRUP GLVHVDH WUDQVPLVH\LRQRLSUWYHPSJHLMGK  
LQWHUUXSWHG QDRHXUYFRLOVNDUQFUDWYVLIQSEUWQVRFWKH  
UHFHQW GHWHFWLROHFRW\*XRQMLZRDUPHZ GRJV LQ ODO

,QVHFXULW\ KDV RSLPULMMIGRQVRHVUSMFLDQO'DHLLQRVQKHRQRUPEX  
\*DR DQG ORS WUpV'et@ FH WKH

'HVSLWH VLJQLILFDQW ULVNV DQG LQVHFXULW\ WKH SURJ

V FRQILUPHG DV \*XLQHD ZRUVPRQL WHKDVVFD VIK HJ HZDYHC  
V LQ ODXULWDQLD ZDV HVVHLFDYHIG WR DEZDUHQHQV  
V IURP 6RXWK 6XGDQ ZDV IRXQG WR UDQJH IURP

VHG LQ 0D\ 0DOLTV 1DWPLRQLQ & BQXDUULFD MEURX  
,W DOVR YLVLWHG ORSWL DQG BYNBEM 5WJD  
FWV DQG WKH UHJLRQDO SURYHGHC D\HV25DQGRQKZ  
7KH \*:(3 HVWDEOLVKHG DEWJE RIILFH LQ ORSWL D

J DQRWKHU VXUSULVH WKHRZQVGLHV QREUGRZQDQ  
XQFXOLDVLV LV RFFXUULQJ LQWKXPQDQ &KDFUHWK  
LWV DSDURHQWLDQWFLUVXSDO QDHLQWR (BRZWLQXH  
LQJ WHWKHULQJWIDQJHFWHGDGMEWRD\$EDMNLQV ZHOQ  
Tp€ UHQPLPUDQVP"€ ÅaVLRQ

@ ð Å 0

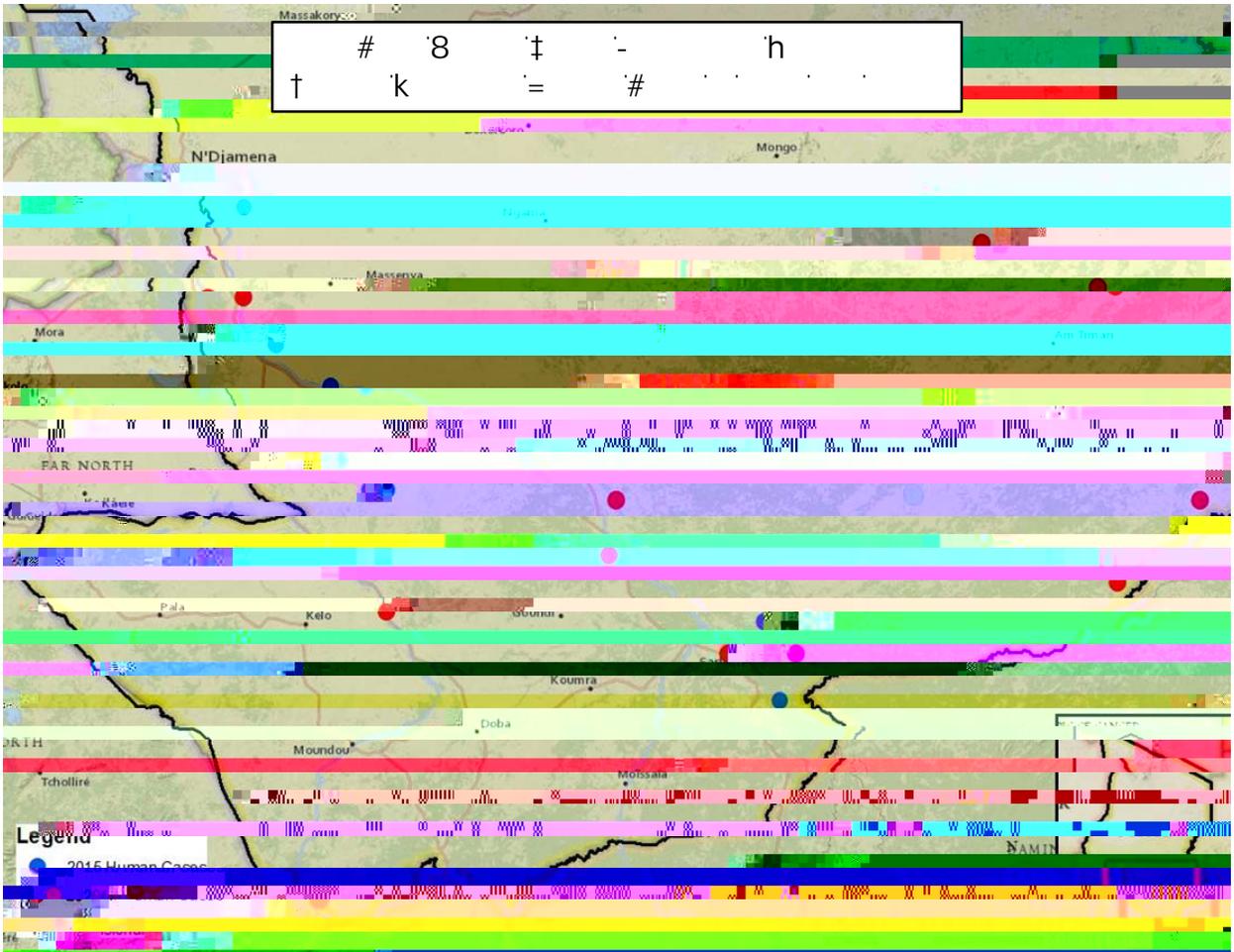




&+ '\$' 025( &\$6(6 \$1' ,1)(&Z(6 \$1' 025( ,17(59(17,216

&KDG UHSRUW HGH D FZRVHPVGR LV HXLVCH LHOU - D Q X D U \ F I R R Q V H I P I E Q H G  
FDVHV FRQWDLQH G LQ 7 F D O H V L Q J X U H L Q F O X Q G H G D  
RI FDVHV DQG DLW F O H G V W I R R Q V H I R R Q J L R Q Q R 6 D V R D X P W K W H S V W H  
1RWDEO\ WKH FDVHV UHVLGH GLQ IH UG LQ WH UH W K W Q LY F L L O V O L D J H H  
ODQJXD J H V 7 D E O H 1 R Q H R I W K H V S W H V V E I P H G V R X Q W H L V L R  
\$ V R I 1 R Y H P E H U W K H S U R J U D P K D G H L O O D Q O B D J L Q V O X Q G L Q W D  
Y L O O D J H V W K D W K D G D F D V H L Q R U K X P D Q & K D G Q D L Q R H F H W H G G  
H T X L Y D O H Q W W R 8 6 I R U U H S R U W K Q J O D W F D V W R U X G H W L O F V  
D Z D U H Q H V V L Q Q L V Z L W K X V S P H W W F D I V V U H S R U W H  
1 R Y H P E H U R I Z K L F K Z H U H L Q Y V H V W L J D X P H R G V Z L L V K D Q O  
\$ Q L P S U H V V L Y H F H U H P R Q \ K H O G D W W \$ Q F S W G R H S ' M E B D B H H L Q  
W K U H H U H Z D U G V L Q F O X G H G D U H S P D W H B Q W L R V L Y F K I R H I W R H V  
Y L O O D J H V D Q G D K X J H F U R Z G 2 W Q \$ P O H Z D Q G G E V W H P R V L R H  
D Q G + D U D J H G L V W U L F W R Q ' H F H P E H U

)LJXUH



Name	1 or 2= VAS	3= VNAS					(Yes, No, or Pending)	If no, date of Abate Rx		Name	1= VAS	3= VNAS	(Yes or No)	Name	(Yes or No)	Actions/Comments?
Sarh (quartier Kassai)																
1.1		3	Sarh	Moyen Chari	12	M	28 Feb 16	Yes	2	Sarh (quartier Kassai)		3	No			Patient visits the health center during the day and returns to the house each evening with his grandmother.
1.2							1 Mar 16	Yes	2							
1.3							29 Mar 16	Yes	2							
2.1	Ngara (quartier Mani)	1	Bailli	Chari Banguermi	5	M	29 Apr 16	Yes	2	Ngara	1		No			
3.1	Belly (quartier Gole)	1	Onoko	Chari Banguermi	11	F	25 May 16	Yes	2	Belly (quartier Gole)	1		No			The household is in endave separate from the VAS. No ASV was serving that specific area.
3.2							16 Jun 16	Yes	2							
4	Mama		3	Korbol	Moyen Chari	38	F	2 Jun 16	No	N/A (Chari)	2		3	No		Patient crossed river traveling to health center, with worm submerged in the water. First worm was isolated; second worm was not isolated. Case therefore not contained.
5.1	Kombol	2		Haraze	Salamat	60	F	7 Jul 16	No		2			No		
5.2						60	F	4 Aug 16	No	16 Aug 16	2			No		Patient entered water source before realizing a second worm was emerging.
6	Dankolo (quartier Myabol)	1	Danamadji	Moyen Chari	55	M	30 Jul 16	Yes	2	Dankolo (quartier Myabol)	1		No			
7	Al Ardep		3	Aboudeia	Salamat	24	F	10 Aug 16	No		2		3	No		13 days between first detection and arrival at the health center. The patient contaminated 5 ponds during that time. The patient's cousin is Case #9.
8	Kombol	2		Haraze	Salamat	11	F	24 Sep 16	Yes							

3URYLVLRQDOO\ &KDG DQGRFWHLSR UYVXDEHU WHWKH  
FRPSDUHG WR LQIHFWHG GRJV LUVWHMFKPHU WCKLVQHDU )  
GRJV ZHUH UHSRUWHG IRU ZHHNV QXPEFHU DQGFH -DRQXHP  
WKH SURJUDP KDQ RTXILYHDO BQUH ZDRQ 86DQG RWIHWKSRULLQJ DQ  
WR KHOS SUHYHQVIMEDQRRLMRLRQFRUXGH7KDWCHWIHVHZDUG  
UHSRUWLQJ GRJV LQ UHSRUWHG DQXJK DQDFGRWDO UHSRUW  
UDWHV RI UHZDUG DZDUHQHVV IRUF DVHSR ULQLQKDLQ LHVWILJG H  
HVWLPDWHV ORQWIKRULWXYUHOVDLQMSUFRQWKLQXK H WRUFRR  
KRXVHKROGV VXUYBONGEXHULHQJHASKRHUWHG WLLDKO WRR IKHXVS  
WUDQVPLVLRQ RI LQIHFWRQ WRVBBJWUDSQEVDPLWZLDRQDVSLSVH  
LQ 2FWREHU

\$ GHPQRVWUDWLRQK\$UWRRISEWDOKALDGHQV LQWKUFG\$EDYRFI  
PDQXIDFWXUHG E\ %D\HU WUHDWGRIPRQGRKQ\GXWHLQWPHQH  
DQG GRJV LQ 1RYHPEHU 7KH GHUHQYRQHDWZRVKLWKH  
QXPEHUV RI LQIHFWHG GRJV GXULQJGHU ZLWKQ&BQWDDQ  
5HSXEOLF \*RQ LQ ORLVVDOD GLVWUQFVQDIPDQMG RKIOV WUJLIF  
&KDUL 5HJLRQ DQG QDUDLHF WQORDEH &KDUL 5HJLRQ

0HDQZKLOH WKH .<1( SURIHVVLRQDOHFRPZRQNEQW LZLQWK W&  
0LQLVWU\ RI +HDQWIRUPDQVLRQDQG (WVWR QCHWIFQDSO D\*QG S  
VWUDWHJLHV WR LQFUHDVH DZDUHQHVV ZRIRUPKILQ UHFZDIURQV I  
H[SHFWV WR EHJLQ WUDLQLQJ IRULQRBORFHWQWQWIDRPS DRIJQ  
DIWHU &KDGIV DQOXDOLWHVWHDYGHZLOOOGHQEQXGG \*XLQ  
FORWK SDWWHUQ ZIEKQVFRQDOWHGGVH\WQRWKHWRRLEMKFX  
FRPPXQLFDWLRQV FDPSDLJQ

\$IWHU VHYHQ \HDUV RI UHVXPHG NQRPZQMLRIGFLVQ&KDG \*XWQ  
WKH SDUDGR[ RigeZicalPyMndstkgmshadell WKH ODEXR UZKWRK\ DSSH  
epidemiologically different IURP \*XLQHD ZRUPV LQ RWKHU FRXQWULHV  
LQIHFWRQ RI GRJWHQV WKSILWVFRHQSQRGRFRDQRQKRDQV LQ  
&KDG

(7+,23,\$ &219(1(6 \$118\$5(9,( : ,1 \*\$0%(//)\$

7KH (WKLRSLDQ 'UDFDQVLRQLDVRVUDVDE(QGXKHQDQ EWXQWU\  
5HYLHZ DW \*DPEHOOD RQ 'HFHPEHU S RI 1DWXQGDH 3WR  
&RRUGLQDWRU 0U \*HWDQHK \$EUKLHZWLDHGXGBIGUWHSUBDE  
WKH )HGHUDO 0LQKWHVUWRIRSHLDO3WVQMFH+HBDQWK\*DQVWOOD  
+HDOWK DQG :DWHU %XUHDXV 81,&() EXLQHGH:RDQHS%EDNK  
\*DPEHOOD 3UHVLGXVW'UUSQDWBZDNH2G\$)5RUDRG RIKH 'LUHF  
RI 6RXWK 6XGDQIV \*:(3 0U 6DPXHO HDNWLRLQKMR&VWVPUH  
OHG E\ 9LFH 3UHVLGHQW 'U 'HDQ 6LHQNR 7LEHQUBIQVR&R  
5HSUHVHQWDWLYH 'U =HULKXQ 7DGS+VJLHRQ 0KH \*3U-XDNGH7Q  
UHSUHVHQWDWLYH R2IWLKHH :42 &BQWUWVSHHQNRQGD'YH NH\  
VSHHFKHV DQG WKH PHHWLQJ ZDV (BSHQHGSPEKDKIHE'HLGHFW

(WKLRS LD KDV UHSDUWRVGD D D SURYEDV RUP FRQVDDLQHV LQ  
VRXUFH RI QRQH RI WKH F DVHV KDIVZKHFIQ HDVWDEHOUVKEG 1  
ZKR LV D KXQWHU DQG UHIXJHH IURVPH8 QDQRX&RKO WGDQ 8DS  
FRXOG KDYH EHHQ LQIHFWHG LQ HHLVRKHUHWKERSHD ZHUOR)  
HWKQLFLW\ DV ZHQHWPRLRVSLSDWQKHMV13DOWHDWVSRUWHG  
GRJV FRQWDLQHG DQG LQIHFWH\$ODEERWQR/QHQR-IDVKD  
DQLPDOV DQG RI WKH F DVHV ZDDEHGDHWHWHEBQLQP RRJWG  
NHEHOH VXE GLVWULFW

7KH SURJUDP LQWHQVLDLHG WR BDLWHWZLWKR\$%GLVWUDUYLF





