Memorandum

Date: September 30, 2009



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From: WHO Collaborating Center for

Research, Training and Eradication of Dracunculiasis

Subject: GUINEA WORM WRAP-UP #192

To: Addressees

"Detect Every Case, Contain Every Worm"

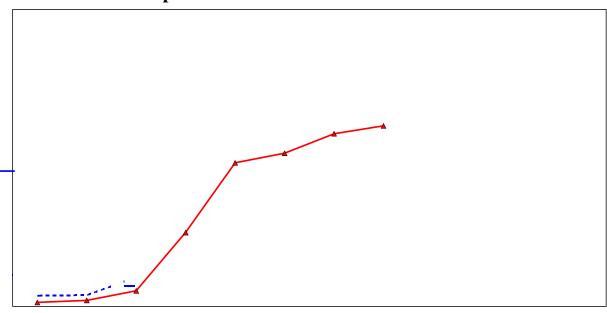
Months since last indigenous case of dracunculiasis:
Niger: 10 months, Nigeria: 9 months

Number of uncontained cases so far in 2009: Sudan: 391, Mali: 18, Ghana: 15, Niger: 2, Ethiopia: 1, Nigeria: 0

SUDAN: RACING AGAINST TIME

The Southern Sudan Guinea Worm Eradication Program (SSGWEP) continues to work mightily to eliminate the remaining foci of dracunculiasis as soon as possible. During January-August 2009, the SSGWEP has reported a provisional total of 2,270 cases, compared to 3,108 cases during the same period in 2009, a decrease of -27% (Figure 5, Table 2). The case containment rate during this period is 83%. The dramatic improvement in case containment compared to previous reports (49% in 2008) is due to the decision of the SSGWEP to declare all cases contained if all standards for case containment have been met by the end of the reporting month, Figure 1

Number of Reported Cases of Dracunculiasis: Sudan 2008 - 2009*



including for some cases pending complete removal of the worm, the status of which are to be updated in the next monthly report, and partly because the majority of cases in Kapoeta North and South Counties are now being isolated voluntarily in Case Containment Centers. The rate of monthly reporting from endemic villages through August 2009 is 92%, compared to 87% during 2008. As of January - August, 73% of endemic villages are being educated to prevent Guinea worm disease, 91% have cloth filters in all households, 46% have received pipe filters, and water sources in 43% are being treated monthly with ABATE@Larvicide, but only 15% have at least one source of safe drinking water. Figure 2 indicates the four Fo

Figure 2

Southern Sudan Guinea Worm Eradication Program Villages Reporting 1 or more Cases Dofacunculiasis During Jan. – Aug. 20 09*

Figure 3

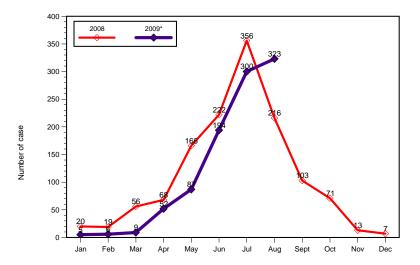
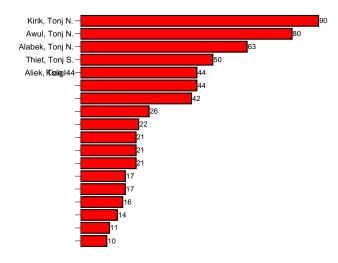


Figure 4



Southern Sudan Security Incidents 2009

	5		ses 2009 cases	_	•	2		
#	Date Location	ру Рау	am by Payam**	Payam	County	State	Incident	Outcome lectped3: stffcbied-oGWad
1	6-Feb Naphno	0	0 Nabro	Nþ	J i j	Ansa fby neff account a	d acced	TC acty(MDA poded)
2	7-Feb Alabekadi Alp	205	77 Alabekand Alp	TøNb	Waap	And badhanachd naf f		lectee/3: ded GW acty
3	8-Feb Alabekand Alpo	s e#2	Alabekand Also	TiNb	Wanap	Cla/with clabsand baff based		lec‡deal4: baffeaccabed-nGW acby
4	21-Feb Për	2	0 Për	Wo	J(lecthel3: teff chied-oGW ad TCacty
5	24-Feb Për	ee#4	Për	Wo	Jģ	Cabadg		lec‡ped4: nsffeaccaned-nuGWard TCac†y
6	27-Feb Kaldo	s e#7	Nas	Kappa Eans	EatE	pe And badis		lectphei3: naff cobied -onGW add TCacopy
7	19-MarKapta	1,348	338 GeeterKapta	GeaerKappa	Ea t E qt	Diabled when spils		lec±pel3: ∎affcbied-oGWad TCac†y
8	Ap Makac	64	21 Matac	TjÆats	Wai	ap F t j(cb/mblcabs)	Dpd GW actos	
9	15-Ap Napan	9 2#7	Ка 	Kappa Eans	Ea tEqb	Fied dienhateed baf f	D pd GW actus	
10	21-Ap W u	*	* *			Laks Shebf	cialibeatand jaked dinas Diped GW actors	
11	10-May Kk	6 2#2	Kk	TjiNb	Wanap	C jn a istip e		lec¢phei3: beffc1bied-nGW acby
12	19-May N b Bair	*	* N er Bair	Jba	Cotal Equita	SPLA abdouted and beautaff e	omer Dapd GW actas	
13	19-May Rabet Kk Kanja Pab	197 87	Rabe; KkrPabj	T jiNb Wa a p) (Cabadg		lec†eel4: beff ood tWauad WaapbordGW acby
14	26-May AlboEats	*	0 *			Jeji Cha/neba chales		lectphoi4: beff enacented -onGW and TC acty
15	May Jba	115	10	Jba		Cetal Equitation Velotescatacks of	bloed Dapoi GW and TC actors	
16	May Tjp	114	10 Tjp	Jba	(CotalEqua Ca/nobcabas		lectphei4: beffencented-nGW acty
17	26-May Jba	e e#15		Jba		CobilEqb	Assa figadica beaidig baff beaterby SPLA paked	Dpd GW acts
18	4-Jou Alps	e e#2	Aþs	TjiNb	Wa a p	Figica/mocames)		lectybel4: beffeaceated-nGW acty
19	8-Jn Alabek	e e#2	Alabek	TjiNb	Wanp	Mooybelf to balof call	i œ	17 daştapinle, pak bassası
20	18-Ju Ma p i	*	* *			Laks SPLA	condended TCC by Doped GW actus	
21	18-J n Ma k ac	64	21 Makac	TjÆats	Was	ıp E baptba sfked-do	W ac ty	lec¢phei4: beffeaceated-nGW acty
22	21-Jou Alabeland Ala	e e#2	Alabekadi Alp	Tj rNb \	Wa n p	La gs abatactbyNer		lecteda4: beffence-bed-olGW acby
23	21-Ja A þ	e e#2	Aþs	TjiNb	Wanap		leabhlaiffa aiceibyabhlaiff af eno enaló ceact	necuja ese 4.an nearcaneo -o Gvv actynAppa,nde-toectµ ioidas
24	6-Ju Aps	e e#2	Aþ	TjtNb	Wanp		Staff peaseted by forter f; bal about ee	AlCaterCetentif encreted, pactes ise
25	2-Ag Pag						leabilat faated byabilat fegdig bicyles	AlCaterCenterf f enaceated, coactes ince
25	10-Ag Tibrekad SterDo	? 109	Tomeland SterDo Teebba a	nd Aeial		Ea tEqib ad La k s	?	AlCaterCetent f eaccated, cactas ise
27	10-Ag Rabe***	e e#2	TjnNbad Eats	T jrNtrCtp Wana	р	lerclari İg		Rabebs-6ficedepd-alCabeCebr baffoaccabd, oacbasie
	TOTAL	1,93	1 410	0000 (440/704)				

Note: 410 cases, 58% of total cases, have been affected by insecurity so far in 2009 (410/701)

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*Affected age isa ond

**Data ipplomay2009

***Rabelbabeld 48 evcaesily2009

 $\mathsf{GW} = \mathsf{Gise} \; \mathsf{Won}$

TC = TacknCb

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Figure 5
Number of Indigenous Cases Reported During the Specified Period in 2008 and 2009*, and Percent
Change in Cases Reported

Country		us Cases orted			% CHANGE 2008 - 2009*		
	2008	2009*	-100%	-50%	0%	50%	100%
Nigeria (8)	37	0	-100%				
Mali (8)	258	74	-71	1%			
Ghana (8)	459	236		-49%			
Ethiopia (8)	40	24		-40%			
Sudan (8)	3108	2270		-27%			
Niger (8)	0	0			0%		
Total	3902	2604		-33%			
All countries, excluding Sudan	794	334		-58%			

^{*} Provisional: excludes cases exported from one country to another

⁽⁸⁾ Indicates months for which reports were received, i.e., Jan. - Aug. 2009

ETHIOPIA: STRUGGLING FOR SUCCESS

Ethiopia reported 24 indigenous cases (96% contained) during January-August 2009, for a -40% reduction in cases compared to 40 indigenous ca



Table 3

Ethiopia Dracunculiasis Eradication Program

List of Guinea Worm Cases and Interventions Against Transmission: Ethiopia, January - August, 2009*

List of Guinea worm Cases and Interventions Against Transmission: Ethiopia, January - August, 2009																				
										Date				/sə/	70	No.		Patient	v(o)	
Case #	# Worms	Age	Sex	Ethnic Group	Profession	Village	District	Region	Suspect Case Identified	Worm Began to Emerge	Village Volunteer, or Case Containment Center, began to contain case	Case Confirmed by a Supervisor	Dectected <24 hrs? (Yes / No)	Water Contaminated? (Yes No)	Date ABATE Applied	Case Contained? (Yes / No)	Admitted to a Case Containme nt Center? (Yes / No)	had Guinea worm last year? (Yes / No)	Imported Case? (Yes / No)^	Probable Origin of Infection (name of village, zone, or country)
1.1	1	18	М	Agnua	Student	Pugnido town/Ulegn Sub village (Agenga village)	Gog	Gambella	29/03/09	30/03/09	29/03/09	30/03/09	Yes	No	No	Yes	Yes	No	No	Abawiri
1.2										31/03/09										
1.3										28/04/09										
2.1	2	24	F	Agnua	House lady	Pugnido town - Ulegn Sub village (Agenga village)	Gog	Gambella	18/03/09	01/04/09	18/03/09	01/04/09	Yes	No	No	Yes	Yes	No	No	Abawiri
2.2										02/04/09										
3.1	3	45	F	Agnua	House lady	Pugnido town- Ulegn Sub village (Agenga village)	Gog	Gambella	20/03/09	02/04/09	20/03/09	02/04/09	Yes	No	No	Yes	Yes	No	No	Abawiri
3.2										02/04/09										
3.3										13/5/09										
4.1	2	12	F	Agnua	Student	Refugee camp - Akobo site (PRC)	Gog	Gambella	27/03/09	02/04/09	27/03/09	02/04/09	Yes	No		Yes	Yes	No	No	Abawiri
4.2										03/04/09										
5.1	1	11	F	Agnua	Student	Pugnido town- Katabari sub village (Agenga village)	Gog	Gambella	27/03/09	02/04/09	27/03/09	02/04/09	Yes	No		Yes	Yes	No	No	Abawiri
6.1	3	14	F	Agnua	Student	Refugee camp - Akobo site	Gog	Gambella	31/03/09	03/04/09	31/03/09	03/04/09	Yes	No		Yes	Yes	No	No	Abawiri
6.2										03/04/09										
6.3										14/04/09										
7.1	1	12	F	Agnua	Student	Refugee camp - Pochalla site (PRC)	Gog	Gambella	06/04/09	06/04/09	06/04/09	06/04/09	Yes	No		Yes	Yes	No	No	Abawiri
8.1	3	13	F	Agnua	Student	Refugee camp - Pochalla site (PRC)	Gog	Gambella	22/04/09	29/04/09	22/04/09	29/0409	Yes	No		Yes	Yes	No	No	Abawiri
8.2										3/5/2009										
8.3										5/5/2009										
9.1	2	40	F	Agnua	House lady	Olane	Gog	Gambella	20/03/09	1/5/2009	20/3/09	1/5/09	Yes	No	No	Yes	Yes	No	No	Abawiri
9.2										3/5/2009										

Table 3 (cont.)

Ethiopia Dracunculiasis Eradication Program

List of Guinea Worm Cases and Interventions Against Transmission: Ethiopia, January - August, 2009*

																	9 7			
'		as Age	Sex	Ethnic Group	Profession	Village		Region	Date					es/	-	(o _N		Patient	v(o	
Case #	# Worms						District		Suspect Case Identified	Worm Began to Emerge	Village Volunteer, or Case Containment Center, began to contain case	Case Confirmed by a Supervisor	Dectected <24 hrs? (Yes / No)	Water Contaminated? (Yes	Date ABATE Applied	Case Contained? (Yes / No)	Admitted to a Case Containme nt Center? (Yes / No)	had Guinea worm last year? (Yes / No)	Imported Case? (Yes / No)^	Probable Origin of Infection (name of village, zone, or country)
10.1	1	40	F	Agnua	House lady	Ogagna	Gog	Gambella	9/5/2009	10/5/2009	9/5/2009	10/5/2009	Yes	No	No	Yes	Yes	No	No	Abawiri
11.1	1	25	F	Agnua	House lady	Abawiri	Gog	Gambella	21/05/09	21/05/09	21/05/09	21/05/09	Yes	No	No	Yes	Yes	No	No	Abawiri
12.1	1	12	M	Agnua	Student	PRC	Gog	Gambella	22/05/09	22/05/09	22/05/09	22/05/09	Yes	No	No	Yes	Yes	No	No	Abawiri
13.1	1	30	M	Agnua	Farmer	Abawiri	Gog	Gambella	24/05/09	26/05/09	25/05/09	26/05/09	Yes	No	No	Yes	Yes	No	No	Abawiri
14.1	1	12	M	Agnua	Student	PRC	Gog	Gambella	5/6/2009	6/6/2009	5/6/2009	6/6/2009	Yes	No	No	Yes	Yes	No	No	Abawiri
15.1	1	14	M	Agnua	Student	Akumed	Gog	Gambella	7/6/2009	8/6/2009	8/6/2009	8/6/2009	Yes	No	No	Yes	Yes	No	No	Abawiri
16.1	1	29	M	Agnua	Farmer	Abawiri	Gog	Gambella	7/6/2009	7/6/2009	7/6/2009	7/6/2009	Yes	No	No	Yes	Yes	No	No	Abawiri
17.1	1	6	F	Agnua	Student	PRC	Gog	Gambella	9/6/2009	11/6/2009	9/6/2009	11/6/2009	Yes	No	No	Yes	Yes	No	No	Abawiri
18.1	1	8	F	Agnua	Student	Perpengo	Abobo	Gambella	7/6/2009	15/6/2009	7/6/2009	15/6/2009	Yes	No	No	Yes	Yes	No	No	Abawiri
19.1	1	35	F	Agnua	House lady	Elia	Itang	Gambella	4/6/2009	20/6/2009	20/6/2009	20/6/2009	Yes	Yes	30/6/2009	No	Yes	No	No	Elia
20.1	2	26	M	Agnua	Farmer	Abaweri	Gog	Gambella	18/6/2009	19/06/09	18/6/2009	19/06/09	Yes	No	No	Yes	Yes	No	No	Abawiri
20.2										25/6/2009										
21.1	1	10	M	Agnua	Student	Agenga	Gog	Gambella	1/6/2009	2/6/2009	1/6/2009	2/6/2009	Yes	No	No	Yes	Yes	No	No	Abawiri
22.1	1	65	M	Agnua	Farmer	Abawiri	Gog	Gambella	2/7/2009	2/7/2009	2/7/2009	2/7/2009	Yes	No	No	Yes	Yes	No	No	Abawiri
23.1	1	35	F	Agnua	Farmer	Olane	Gog	Gambella	12/7/2009	15/7/09	12/7/2009	15/7/09	Yes	No	No	Yes	Yes	No	No	Olane
24.1	1	15	M	Agnua	Student	Agenga	Gog	Gambella	18/8/2009	18/8/09	18/8/2009	18/8/09	Yes	No	No	Yes	Yes	No	No	Abawiri

Note: The case registered in 19.1 is registered uncontained because when the case saw a worm emerging out from her leg she traveled to Elia Clinic to report herself within 24 hours. But on the way to the clinic she washed her wound in the pond water called Lelakugn. She also confirmed that last year she never traveled out of her village.

^{*} provisional

[^] imported from another country

Uganda.

From 7 to 21 September 2009 an International Certification Team (ICT) mission was conducted to Uganda to assess the status of surveillance for cases of dracunculiasis. The mission team was led by <u>Dr Joel Breman</u> (USA) who was accompanied by <u>Prof Abolhassan Nadim</u> (Iran), <u>Mr Sadi Moussa</u> (Niger), and <u>Dr Joshua Ologe</u> (Nigeria). The Uganda ICT report will be reviewed by the International Commission for Certification of Dracunculiasis Eradication (ICCDE) during their upcoming meeting from 21-23 October in Geneva.

DONATIONS

In December 2008, the Bill & Melinda Gates Foundation announced a grant of \$40 million to The Carter Center that includes an outright contribution of \$8 million and challenges donor organizations and individuals to provide an additional \$32 million, which the Gates Foundation will match one-to-one. Three donors have provided generous new support toward the challenge grant: the United Kingdom Department for International Development (DFID) pledged £10 million to the Guinea Worm Eradication Program and the Kingdom of Saudi Arabia pledged \$2 million; the John P. Hussman Foundation pledged \$1 million to be split evenly between the Trachoma Control and Guinea Worm Eradication Programs in Southern Sudan.

TRANSITION

Mr. Philip Downs has accepted a position with Research Triangle Institute (RTI) as a Manager of their Integrated Vector Management Program based in Washington D.C. beginning in September 2009. During his eight years of service with The Carter Center, Philip was Senior Program Officer, Dracunculiasis Eradication during 2002-2005, Resident Technical Advisor to Ghana's Guinea Worm Eradication Program during 2005 – 2006, and Assistant Director, Dracunculiasis Eradication during 2006 – 2009. Our best wishes to Philip and his family in his new endeavors.

"Dogs bark, but the caravan moves on." Anonymous proverb

DEFINITION OF CASE CONTAINMENT

MEETINGS

The International Commission for Certification of Dracunculiasis Eradication will meet at WHO headquarters in Geneva on October 21-23, 2009.

RECENT PUBLICATIONS

Afele M, 2009. Countdown to wipe out guinea-worm in Ghana. <u>Bull World Health Organ</u> 87:649-650.

Caplan, A. L. 2009. Is disease eradication ethical? Lancet. Jun 27; 373(9682):2192-3.

Glenshaw MT, Roy S, Ruiz-Tiben E, Downs P, Williamson J, Eberhard M, 2009. Guinea worm disease outcomes in Ghana: determinants of broken worms. <u>Am J Trop Med Hyg</u> 81:305-312.

Hotez, P. J. and Kamath, A. Neglected tropical diseases in sub-saharan Africa: review of their prevalence, distribution, and disease burden. PLoS Negl Trop Dis. 2009. 3(8), e412.

Langlais, L., 2003. Dracunculiasis in a German shepherd dog. Can Vet J, 44:682

World Health Organization, 2009. Monthly report on dracunculiasis cases, January-May 2009. Wkly Epidemiol Rec 84(27): 280-282.

World Health Organization, 2009. Monthly report on dracunculiasis cases, January-July 2009. Wkly Epidemiol Rec 84(36):371-372.

Inclusion of information in the Guinea Worm Wrap-Up does not constitute "publication" of that information.

In memory of BOB KAISER

For information about the GW Wrap-Up, contact the WHO Collaborating Center for Research, Training, and Eradication of Dracunculiasis, NCZVED, Centers for Disease Control and Prevention, F-22, 4770 Buford Highway, NE, Atlanta, GA 30341-3724, U.S.A. FAX: 770-488-7761. The GW Wrap-Up web location is http://www.cdc.gov/ncidod/dpd/parasites/guineaworm/default.htm