Memorandum

Date: March 12, 2012

From: WHO Collaborating Center for

Research, Training and Eiraation of Dracunculiasis

Subject:GUINEA WORM WRAP-UP #210

To: Addressees

Detect and Explain Every Case! Contain Every Worm!

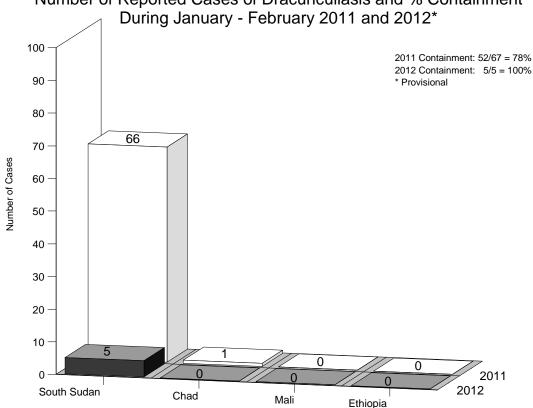
SOUTH SUDAN: 100% CONTAINMENT, 92% FEWER CASES IN DECEMBER-FEBRUARY

The South Sudan Guinea Worm Eradication Parorg (SSGWEP) has reported only 6 cases of Guinea worm disease in December 2011 throughbruary 2012, all of them contained, compared to 73 cases reported (78% contained) the same three on the a year ago.

The 5 cases reported in January-February 2012 threrenly cases detected brildwide in those two months (Figure 1, Table 2) huts meeting so far the goal tontain every case everywhere

Figure 1

Number of Reported Cases of Dracunculiasis and % Containment



during 2012. In January orocase of GWD was detected in Naja Payam, Kapoeta East County, and one case was detected in Najie, Kapoetath County, whereas in February cases were detected in Mogos and Narus Payams (1 caste) in Kapoeta East Ooty, and in Karakamuge Payam, Kapoeta North County. Three of these tiases were managed at a case containment center and the other two at the village lesse of these tiases were managed at a case containment center and the other two at the village lesse of the second of 39% from the 1,698 cases during all of 2011, 74% contained, which was a reduction of 39% from the 1,698 cases reported in 2010. Seventy-five percent (75%) the cases in 2011 wereported from Eastern Equatoria State, 11% were from Warrab State and 6% excepte reported from Lakes and Jonglei States (Table 1). The cases in sourthelonglei State wereontiguous with the lage focus in Eastern Equatoria. Cases were eventified by gender (517 male, 51emale), and 867 (84%) were in the 6-35 year old age group. Of the 763 cases with a case of the standards for case containment, 600 (79%) were contained at a case case to 1.6 worms each.

The SSGWEP reports that during 2011, ro&000 volunteers covered 5,882 villages under active surveillance, but only 125 villages peorted indigenous case. During 2011, 100% of 304 endemic villages had cloth filters in all houses, 95% were exposed to health education on how to prevent the disease, 85% had watercassureated with ABATE@ Larvicide, 25% had one or more sources of safe drimstiwater, and 83% drargeted villages had pipe filters. Fifty-eight percent (58%; 600/1,028) all cases were contained at dase containment centers (6 fixed, 12 mobile). UNICEF has contracted flow borehole wells to be rilled in a highly endemic area on the plateau in Kapoeta East Qoodre astern Equatoria ate. As of March 1, 2012, boreholes had been drilled addy in 5 villages reporting 2 (86%) of 37 cases reported from 7 villages in Lotimor Payam (distt) of Kapoeta East County during 2011.

Following recommendations made during the SEEP review meeting in December 2011, the program, with assistance from WHO conductedassessment in formerly endemic areas of Jonglei State (Wuror, Nyrol, Ayod, and Piboo@ties) to ascertain wh

# SOUTH SUDAN GUINEA WORM ERADICATION PROGRAM CASES REPORTED AND CONTAINED DURING 2011\* BY STATE, COUNTY AND MONTH

State	County						Cases C	Contained / Case	s Reported						%
Olaic	County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Contained
	Kapoeta East	3 / 4	30 / 39	76 / 96	94 / 115	129 / 154	75 / 100	32 / 39	16 / 20	7 / 8	4 / 7	5 / 7	1 / 1	472 / 590	80%
Eastern Equatoria	Kapoeta North	0 / 0	12 / 14	18 / 27	30 / 35	25 / 31	20 / 24	8 / 13	3 / 3	3 / 4	2 / 2	0 / 0	0 / 0	121 / 153	79%
	Kapoeta South	0 / 0	0 / 0	0 / 1	6 / 11	10 / 11	4 / 8	0 / 0	0 / 1	0 / 0	0 / 0	0 / 0	0 / 0	20 / 32	63%
STAT	E TOTAL	3 / 4	42 / 53	94 / 124	130 / 161	164 / 196	99 / 132	40 / 52	19 / 24	10 / 12	6 / 9	5 / 7	1 / 1	613 / 775	79%
	Pibor														
Jonglei		0 / 0	3 / 6	2 / 10	1 / 9	5 / 31	2 / 4	0 / 0	1 / 2	0 / 0	0 / 0	0 / 0	0 / 0	14 / 62	23%
Jonglei	Ayod Wuror	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%
_		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%
TO	OTAL	0 / 0	3 / 6	2 / 10	1 / 9	5 / 31	2 / 4	0 / 0	1 / 2	0 / 0	0 / 0	0 / 0	0 / 0	14 / 62	23%
	Tonj North	1 / 1	0 / 0	1 / 1	2 / 2	4 / 4	8 / 13	4 / 8	8 / 11	5 / 7	2 / 2	0 / 0	0 / 0	35 / 49	71%
	Tonj East	0 / 0	0 / 0	0 / 0	0 / 0	3 / 4	7 / 9	13 / 15	2 / 3	8 / 9	3 / 5	1 / 2	0 / 0	37 / 47	79%
Warrap	Tonj South	0 / 0	0 / 0	0 / 0	0 / 0	1 / 1	1 / 1	3 / 4	3 / 3	2 / 2	0 / 0	0 / 0	0 / 0	10 / 11	91%
Wallap	Gogrial East	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	2 / 8	0 / 1	0 / 0	0 / 0	0 / 0	0 / 0	2 / 9	0%
	Gogrial West	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%
	Twic Mayardit	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%
STAT	E TOTAL	1 / 1	0 / 0	1 / 1	2 / 2	8 / 9	16 / 23	22 / 35	13 / 18	15 / 18	5 / 7	1 / 2	0 / 0	84 / 116	72%
Western Bahr A	All														
Ghazal	Jur River	0 / 0	0 / 0	0 / 0	0 / 0	1 / 1	0 / 0	0 / 2	1 / 1	0 / 0	0 / 0	0 / 0	0 / 0	2 / 4	50%
TO	OTAL	0 / 0	0 / 0	0 / 0	0 / 0	1 / 1	0 / 0	0 / 2	1 / 1	0 / 0	0 / 0	0 / 0	0 / 0	2 / 4	50%
Lakes	Awerial	0 / 0	0 / 0	1 / 1	2 / 2	1 / 4	12 / 13	7 / 11	3 / 3	1 / 3	7 / 11	8 / 10	0 / 0	42 / 58	72%
	Cuibet	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1 / 1	0 / 0	0 / 0	1 / 1	0%
	Yirol E.	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%
	Yirol W.	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%
	Maper	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%
	Rumbek Centre	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%
	Rumbek East	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%
STAT	E TOTAL	0 / 0	0 / 0	1 / 1	2 / 2	1 / 4	12 / 13	7 / 11	3 / 3	1 / 3	8 / 12	8 / 10	0 / 0	43 / 59	73%
Central			1		1										
Equatoria	Terekeka	1 / 1	1 / 1	1 / 1	0 / 0	1 / 3	0 / 1	0 / 1	0 / 0	1 / 1	0 / 0	0 / 0	0 / 0	5 / 9	56%
	Juba	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1 / 1	0 / 0	1 / 2	0 / 0	0 / 0	0 / 0	2 / 3	0%
TO	OTAL	1 / 1	1 / 1	1 / 1	0 / 0	1 / 3	0 / 1	1 / 2	0 / 0	2 / 3	0 / 0	0 / 0	0 / 0	7 / 12	58%
SOUTHERN SI	UDAN TOTAL	5 / 6	46 / 60	99 / 137	135 / 174	180 / 244	129 / 173	70 / 102	37 / 48	28 / 36	19 / 28	14 / 19	1 / 1	763 / 1028	74%
% CONTAINED		83%	77%	72%	78%	74%	75%	69%	77%	78%	68%	74%	100%	74%	1 4 70
L		0070	/0	12/0	1070	1470	1070	0070	/	1070	0070	1470	10070	1470	السسم

(Countries arranged in descending order of cases in 2011)

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COUNTRIES REPORTING CASES		NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED														
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL*			
SOUTH SUDAN	2 / 2	3/3	/	/	/	/	/	/	/	/	/	/	5/5	180/		
% CONTAINED	100	100											100			
% CONT. OUTSIDE SUDAN	0	0											0			

<sup>\*</sup>Provisional

Shaded cells denote months when zero indigenous cases were reported. Numbers indicate how many imported cases were reported and contained that month.

#### Number of Cases Contained and Number Reported by Month during 2011

(Countries arranged in descending order of cases in 2010)

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COUNTRIES REPORTING CASES		NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED														
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER		TOTAL*			
SOUTH SUDAN	5/6	46 / 60	99 <sub>/ 137</sub>	135 / 174	180 / 244	129 / 173	70 <sub>/ 102</sub>	37 <sub>/ 48</sub>	<sup>28</sup> / <sub>36</sub>	19 / 28	<sup>14</sup> / <sub>19</sub>	1/1	<sup>763</sup> / <sub>1028</sub>	74		
MALI	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1/3	1/3	2/3	0 / 1	1 / 1	0/1	0/0	5 / 12	42		
ETHIOPIA^	0 / 0	0 / 0	1 / 2	1 / 1	4/4	1/1	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0/0	7/8	88		
CHAD	0 / 0	1 / 1	0 / 0	0 / 1	0 / 0	0 / 0	1 / 2	1 / 4	0 / 0	0 / 0	0 / 0	1/2	4 / 10	40		
GHANA	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		
TOTAL*	<sup>5</sup> / <sub>6</sub>	47 <sub>/ 61</sub>	100 / 139	136 <sub>/ 176</sub>	184 <sub>/ 248</sub>	131 / 177	72 <sub>/</sub> <sub>107</sub>	40 / 55	<sup>28</sup> / <sub>37</sub>	<sup>20</sup> / <sub>29</sub>	14 / 20	2/3	779 <sub>/</sub> 1058	74		
% CONTAINED	83	77	72	77	74	74	67	73	76	69	70	67	74			
% CONT. OUTSIDE SUDAN	0	100	50	50	100	50	40	43	0	100	0	50	53			

<sup>\*</sup> provisional

100

Shaded cells denote months when zero indigenous cases were reported. Numbers indicate how many imported cases were reported and contained that month.

<sup>^</sup> one case of GWD (not contained) was imported into Ethiopia from South Sudan during March and a second (contained) during May.

Figure 2 Number of Indigenous Cases Reported During th

# Country

	2011	2012*
Chad (2)	1	0
South Sudan (2)	66	5
Mali (2)	0	0

# UNITED KINGDOM, GATES FOUNDATIO N, UNITED ARAB EMIRATES AND CHILDREN'S INVESTMENT FUND FOUNDA TION COMPLETE FUNDING NEEDED FOR GUINEA WORM ERADICATION

We are delighted to report that U.S. \$40 milliomew pledges to the Guinea Worm Eradication Program were announced in London on January 20, 2012, by the Bill & Melinda Gates Foundation (\$23.3 million); His Highness Sheikh Katabin Zayed Al Nahyan, the President of the United Arab Emirates (\$10 million); and the Children's Investment Fund Foundation (\$6.7 million). The three grants, along with the top 20 million pounds sterling (approximately \$31 million) that the United Kingdom's Department for International Development (DFID) committed in October 2011, will fund the Carter Center's assistance to endemic countries for interventions against remaining ses of the disease and WHO's assistance for surveillance by countries during and after elimitomatof transmission and for certification of eradication.

CHAD: INCREASING COVERAGE

**Chad Guinea Worm Eradication Program** Figure 3 Villages Reporting Cases of Dracunculiasis in 2010 or 2011 

Table 3

Patient-# Main Resident Village / District Emergence Age Gender Ethnicity Occupation # worms

## MALI: 42% CONTAINMENT, 79% REDUCTION IN CASES IN 2011

Mali's Guinea Worm Eradication Figram has reported a final totafil 12 cases (42% contained) from 6 localities during 2011, comaped to 57 cases (79% comment) reported in 2010. All 5 cases reported in Kidal District were in the safamenily. Eight of the patients were female, 6 were white Touaregs, 2 black Touaregs, 2 black Touaregs, and one each Sarakole and Songhai. The program applied ABATE in 92% of 26 endenwildages in 2011, compared to 63% of endemic

Table 4	Gog Woreda-Dracunculiasis Er	radication Program:	2011 Patient Data
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Village of Detection	Month	Case Number	Age	Date Worm First Emerged	Date VBV First Saw Case	Date Bandaging Began	Date Worm Completely Removed or Cut	Date Supervisor Confirmed Case	Name of Reporter	Date Admitted into CCC	Date Discharged from CCC	Location of Worm Emergence	Did Patient Enter Water with worm	Imported?	Case Contained?	Likely Importation Location	Likely Source of Infection
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Abawiri March Marcht TJ73.7826 1.2609 TD[Left Leg (Upper )Tp -1.2609 TD[Inside Calf))-3681.5(No)-2765.2(No)-2373.9(Yes)-6842.1(Pigntonyi, Aniche)]TJ-73.7826 -4.8696 TD[Abawiri)-2851.6(May)-2936.9(3.2)-957.7(40)-452.9(M)-1993.1(7/5/2011)-1038.2(23/4/2011)]TJ35.0435

 $16^{\mathrm{TH}}$  ANNUAL PROGRAM MANAGERS M EETING HELD AT THE CARTER CENTER

High level delegations from ChaoEthiopia, Mali and South Sundaparticipated in the 16th Annual Program Managers Meeting that wasdibet The Carter Center on March 1-2, 2012. Chad's delegation was led by the

Table 5

### Dracunculiasis Eradication Campaign: Status of Interventions:2011

Countries Reporting Cases in 2010	Number of reported cases (indigenous) in 2011	Number of reported cases (imported) in 2011*	% of all cases reported that were	under surveillance during the same	Villages/Localities  Villages Under Active Surveillance in 2011  Status of Interventions in Endemic Villages in 2011												
			contained during 2010		Number	% Reporting Monthly	No. reporting zero cases	No. reporting one or more cases	No. reporting only imported cases**	No. reporting indigenous cases	Endemic villages 2010-2011	% reporting monthly^	% with filters in all households^	% using Abate^	% with one or more sources of safe water^	% provided health education^	
Sudan	1,028	0	74%	-39%	5,882	100%	5,419	463	338	125	304	100%	100%	85%	25%	95%	
Mali	12	0	42%	-79%	102	100%	96	6	0	6	26	100%	100%	92%	40%	100%	
Chad†	10	0	40%	0%	42	85%	33	9	0	9	NA	NA	NA	NA	NA	NA	
Ethiopia	6	2	88%	-68%	67	100%	62	5	2	3	6	100%	100%	100%	83%	100%	
Total	1,056	2	73%	-41%	6,093	99%	5,610	483	340	143	336	100%	100%	86%	27%	95%	
Total outside Sudan	28	2	53%	-67%	211	97%	191	20	215	18	32	100%	100%	94%	48%	100%	

<sup>\*</sup> Imported from another country

NA = Not applicable.

<sup>\*\*</sup> imported from another country or from another in-country disease-endemic village

<sup>^</sup> The base of the percentage is the number of villages/localities where the program applied interventions during 2010-2011

<sup>†</sup> Chad is not a disease-endemic country, but one with an outbreak. Hence, there are no official disease-endemic villages. However the 10 cases of Guinea worm disease reported during 2010 were reported from 8 villages and the 10 cases reported during 2011 were from 9 different villages.

#### GUINEA WORM ERADICATI ON FILM BROADCASTS

During April, 2012 Cielo Productions documentary filfroul Water Fiery Serpentwill air on Public Broadcasting Stations (PBS) through Aircer Public Television (APT) in the cities listed below.

- x Atlanta (GPB) April 4, 2012 @ 7 p.m.
- x Portland (OPB) April 5, 2012 @ 8 p.m. (OPB Plus)
- x Denver (KBDI) April 5, 2012 @ 9 p.m.; April 6, 2012 @ 12 a.m.; April 7, 2012 @ 7 p.m. on channel 12.2
- X Seattle (KCTS) April 6, 2012 @ 12 p.m.; April 22, 2012 @ 11 p.m.
- x Sacramento (KVIE) April 11, 2012 @ 11 p.m.; April 13, 2012 @ 2 a.m.; April 16, 2012 @ 4 a.m. on KVIE2; April 18, 2012 @ 7 p.m. on KVIE2.
- X Kansas City (KCPT) April 20, 2012 @ 10 p.m.
- X Cleveland (WVIZ) April 22, 2012 @ 3 p.m.
- x Los Angeles (KLCS) April 24, 2012 @ 8 p.m.
- x South Carolina (SCETV) April 30, 2012 @ 10 p.m. (SCETV is a statewide network that overlaps into GA & NC).

#### **MEETINGS**

The 16<sup>th</sup> meeting of Program Review of all the National Guinea Worm Eradication Programs sponsored by WHO will be held in Addis Ababa on March 26-29, 2012. Representatives of all endemic (EthiopNeali, and South Such), precertification countries (Chad, Cote d'Ivoire, Ghana,rke, Niger, Nigeria and Sudan) and other countries yet to be certifile(Angola, DRC and Somalia) Miparticipate. A planning meeting of WHO/AFRO countriesocusing on strengthening theory is serve illance of Guinea worm disease will be held on 30 March 2012.

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

In memory of BOB KAISER

WHO Collaborating Center for Research, Training, **Enablication** of Dracunculiasis, Center for Global Health, Centers for Disease Control and Preven**Mari**lstop C-09, 1600 Clifton Road NE, Atlanta, GA 30333, USA, email: gwwrapup@c**do**v, fax: 404-728-8040. TheW Wrap-Up web location is http://www.cdc.gov/parasites/guineaworm/publications.html#gwwp

Back issues are also available the Carter Center web site off is and French are located at <a href="http://www.cartercenter.org/news/publicatis/health/guinea\_worm\_wrapup\_english.html">http://www.cartercenter.org/news/publicatis/health/guinea\_worm\_wrapup\_francais.html</a>