

Date: July 26, 2004

From: WHO Collaborating Center for  
Research, Training and Eradication of Dracunculiasis

Subject: GUINEA WORM WRAP-UP #144

To: Addressees

**SUDAN PEACE PROTOCOLS OPENING DOOR TO FINAL CAMPAIGN; DRACUNCULIASIS  
CASES DECLINING RAPIDLY**

Seven days after ministers of health of the last 12 endemic countries and their partners signed the Geneva Declaration on May 19, pledging to complete the eradication of dracunculiasis within five years, momentum towards that goal received another big boost with the signings of the last remaining protocols needed to form the basis for a final comprehensive Peace Agreement

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expanding cases to Ethiopia, Kenya and Uganda), while placing programmatic priorities on determining and implementing immediately in new high endemic villages, as well as on collaborating with other countries on health and development efforts. This report, in an earlier issue, replicating Guinea worm disease control in an era of much broader development in the war-torn southern Sudan, catalyzing improvements in health care, water supply, agriculture, education, surveillance and capacity building.

During January–May 2004 Sudan's Guinea worm eradication program reported only 1,077 cases from the 1,844 endemic villages (5% reporting rate), which is a reduction of –8% from the 25% case reported in the same period of 2003 (reporting rate). The limitation of “incentive” for village-based health workers and some supervisors (year ago causing lower reporting rate), more erratic reporting of cases in some areas (cess-over-reporting and recent insecurity in some of the newly accessible areas (days or absent reports)) explain some of the reported reduction in cases. But actual reductions in transmission of dracunculiasis appear to be significant in much of the remaining endemic areas that is already being accessed, and that accessible areas now larger than ever (nearly 9,000 villages). A Guinea worm trilateral contest was broadcast by radio at the end of May for Upper Nile and Jonglei States as a part of GVW mobilization campaign. The northern states of Sudan have reported no indigenous cases and three cases imported from southern Sudan. January–May 2004. As indicated in Figure 1, Sudan's share of reported cases of dracunculiasis is shrinking.

**GHANA ACCELERATES PROVISION OF SAFE DRINKING WATER**

As reported in *Guinea Worm Wipe-Out* 13, the Government of Ghana's Community Water and Sanitation Agency (CWSA) has begun drilling wells in endemic villages, using Highly Indebted Poor Countries (HIPC) funds allocated by the government from its 2002 and 2003 savings. By the end of May this initiative had carried 34 successful boreholes in endemic villages of the Northern Region, 3 successful boreholes in Volta Region, 25 in the country's highest endemic district, Kwadasu and had successfully rehabilitated 17 old borehole wells in endemic villages of the Northern Region's Zabzugu District (17 highest endemic district so far in 2004; 1<sup>st</sup> highest in 2003). Hand pumps for installation of these new wells were expected to arrive in June. The CWSA has targeted a total of over 100 new borehole wells for completion in endemic villages in 2004. The government has allocated a total of 3 billion cedis (~US\$3 million) for this activity.

With the sharp reduction in cases reported for this year by Sudan (76% of all reported cases in January–May 2004) the four districts where Ghana's program discovered large outbreaks during 2003 (Nkwanta, Savelugu, Keta, Krachi) and where reported cases have consequently increased by more than 100% so far in 2004 (2003 cases have begun to decline in

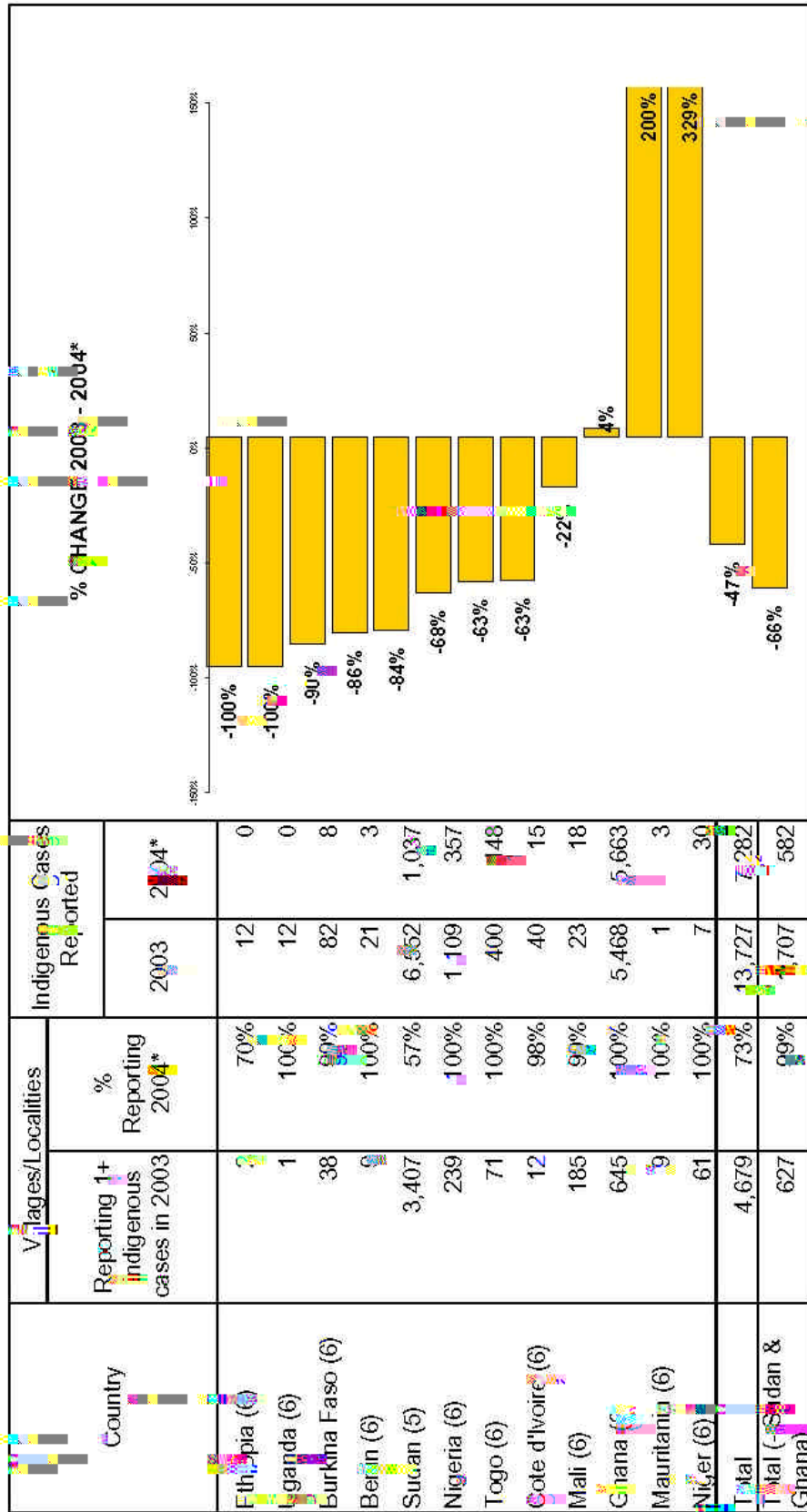
Nkwanta (outbreak discovered in February 2003; -37% in May-June 2004) and Savelugu-Nanton (outbreak discovered in April 2003; -23% in June 2004) Districts. The outbreaks in Kete-Krachi and Tolon-Kumbungu were discovered in June and December 2003, respectively. No large new outbreaks have been reported so far in 2004, but recent re-establishment of low level endemicity in Ashanti Region, which had been free of indigenous transmission for more than two years, underscores again the dangerous weakness in dracunculiasis surveillance in low and formerly endemic areas of Ghana.

### **NIGERIA: CASES DOWN, INTERVENTIONS UP**

Nigeria has reported –68% fewer cases in January-June 2004 than in the same period of 2003 (357 vs. 1,109 cases), which is better than the –62% reduction in cases achieved between 2002 and 2003. As illustrated in Figure 2, Nigeria’s recent dramatic reductions in cases coincided with strong advocacy by former head of state General (Dr.) Yakubu Gowon, increased coverage of endemic villages with cloth filters in every household, more endemic villages with at least one safe source of drinking water, and higher containment rates of reported cases. Since these key indices of interventions are even higher this year than they were in 2003, even greater reductions in cases may be expected in 2005. As of June 2004, Nigeria’s program reported complete household filter coverage of 100% of its endemic villages, 72% of which had at least one safe source of water, and 85% of cases so far this year were reportedly contained. Nigeria reported 76% of its total cases of 2003 in the first half of that year, which suggests that Nigeria may report less than 500 cases for all of 2004!

General Gowon paid advocacy visits to Kebbi, Sokoto, Katsina, and Zamfara States from June 26 to 30. He was accompanied by representatives of the Federal and State Ministries of Health, UNICEF, the Yakubu Gowon Center, and The Carter Center. In addition to meeting with three governors and one deputy governor (Sokoto), the Nigerian former head of state and his team met with the Emir of Kwas em ( -) TjsEmi

Figure 4  
 Number of Villages/Localities Reporting Cases of Dracunculiasis in 2003, Percentage of Endemic Villages Reporting in 2004\*, Number of Indigenous Cases Reported During the Specified Period in 2003 and 2004\*, and Percent Change in Cases Reported



(5) Indicates months for which reports were received, i.e. Jan. - May, 2004  
 \* Provisional

Table 1

NUMBER OF CASES CONTAINED AND NUMBER REPORTED (COUNTRIES ARRANGED BY DESCENDING ORDER OF CASES REPORTED BY 2008)

COUNTRIES REPORTING CASES	NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED												% CONTAINED	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		TOTAL*
SIERRA LEONE	33	44	31	38	108	167	1	1	1	1	1	1	167	79
GHANA	647	628	623	471	281	221	1	1	1	1	1	1	3,079	56
25	81	64	40	25	31	31	1	1	1	1	1	1	304	86
34	1	9	0	0	5	7	1	1	1	1	1	1	33	72
TOGO	35	30	18	12	17	15	1	1	1	1	1	1	132	64
NIGER	1	2	1	3	4	13	1	1	1	1	1	1	34	79
BURKINA FASO	1	1	1	1	1	1	1	1	1	1	1	1	11	86
718	1	1	1	1	1	1	1	1	1	1	1	1	6	38
1	2	2	1	0	0	0	0	0	0	0	0	0	3	100
1	1	1	1	1	1	1	1	1	1	1	1	1	11	91
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
TOTAL*	1,550	1,498	1,372	1,147	1,238	1,313	6	6	6	6	6	6	13,338	80
% CONTAINED	22	53	60	44	52	28	100	100	100	100	100	100	53	
% CONT. OUTSIDE	56	61	63	53	60	40	100	100	100	100	100	100	29	

\* EXCEPT WHERE INDICATED OTHERWISE, THE NUMBER OF CASES REPORTED IS THE NUMBER OF CASES REPORTED BY 2008.  
 \*\* Report only from South Africa. Region has precluded interventions and reporting.  
 † Cases in this month were reported from Burkina Faso. Many imported cases were reported and contained that month.  
 For other imported cases see table of imported cases by month and by country.

## **TOGOLESE MINISTER OF HEALTH VISITS DJARAKPANGA**

Togo's Minister of Health, Mme. Suzanne Aho, visited the endemic village of Djarakpanga on June 25th. Located in the northern district of Sotouboua, which is the country's highest endemic district, Djarakpanga was Togo's highest endemic village (reported 81 cases) in 2003. In the past few months, thirty villages (including 15 endemic villages) in this part of Sotouboua District received 42 new borehole wells, all of which are now functioning, with support provided by the Islamic Development Bank. Djarakpanga has reported only 3 cases in January-June 2004. The minister's visit was broadcast on the evening television news. During the same week of June 21, U.S. Ambassador Gregory Engel attended the final celebration to mark the completion of "Worm Week" in the second-highest endemic district: Haho. Togo's Guinea Worm Eradication Program has arranged for six radio stations to broadcast messages about Guinea worm disease in the five most endemic districts; seven lesser endemic districts were already being covered by radio messages. During January-June 2004, Togo's six districts with case containment centers reported average reductions in cases of -73% (range: -100% to -17%) compared to the same period of 2003, while the twelve endemic districts without case containment centers reported -42% fewer cases (range: -69% to +55%). With -63% fewer cases reported in the first half of 2004, Togo is poised to report a total of less than 500 cases this year for the first time. So far, 36 of the cases reported by Togo this year were imported from Ghana.

## **NIGER MINISTER OF HEALTH VISITS TUAREGS IN ENDEMIC LOCALITIES**

Niger's Minister of Health, Dr. M. Sourghia, participated in social mobilization efforts among the Tuareg population in endemic localities of Tillabery District in early July. The minister also opened the cross-border meeting held at Ayerou, Niger on July 6-7 between senior Guinea worm eradication officials from Niger, Mali and Burkina Faso. The minister visited the village of Tounkouss to meet with the tribal chief, and with group ("fraction") leaders from Swane area of Tillaberi District. The tribal chief, who is a resident of Tounkouss, is responsible for four of the most endemic localities in Tillaberi, including the localities of Erkou and Falala, which have reported 15 and 11 cases, respectively so far during 2004. This year's Worm Week in Tillabery District was held in early June, with the help of Scouts of Niger (a part of the international scouting movement), who formed 15 teams for work in the highest endemic areas of the district as reported in 2003. These energetic scouts are continuing to work in the endemic villages and hamlets, using photographic flip charts (*pagivolts*) developed by Japanese Overseas Cooperation Volunteers (JOCV) in Niger. Tillabery District, which reported 64% of Niger's cases in 2003, has experienced increased insecurity in some areas in recent weeks.

## **VOLUNTEERS ASSEMBLE 30,000 MEDICAL KITS FOR GHANA, NIGERIA & SUDAN**

More than 300 corporate volunteers and members of the diplomatic community in Atlanta joined Carter Center staff on July 13-30 to assemble 30,000 medical kits for the Guinea Worm Eradication Programs of Ghana, Nigeria and Sudan. As reported in the previous issue of *Guinea Worm Wrap-Up*, Johnson & Johnson donated the medical supplies in the kits. The kits will be distributed to volunteer health workers in the three most endemic countries. Each kit will allow volunteers to care for ten persons with dracunculiasis, as part of case containment efforts. In Sudan, the medical supplies will supplement and help replace the contents of kits that were recently distributed from the Norwegian medical students' Humanitarian Action Campaign of 2003.

Organizations that provided donations of volunteers to support the Herculean effort of assembling the medical kits include: Atlanta Bread Company Airport-Atrium, LLC; BellSouth Corporation; British

Coca

**The schedule for Program Reviews is as follows:**

Ghana: August 16-17 in Accra

Francophone countries: August 18-20 in Accra

Sudan: October 5-6 in Nairobi

Nigeria: October 11-12 in Jos

Ethiopia and Uganda: November in Kampala

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