Public Health Service Centers for Disease Control and Prevention (CDC) Memorandum

Date: March 2, 2009

From: WHO Collaborating Center for

Research, Training and Eradication of Dracunculiasis

Subject:GUINEA WORM WRAP-UP #187

Table 1

Number of Cases Contained and Number Reported by Month during 2008*

(Countries arranged in descending order of cases in 2007)

NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED

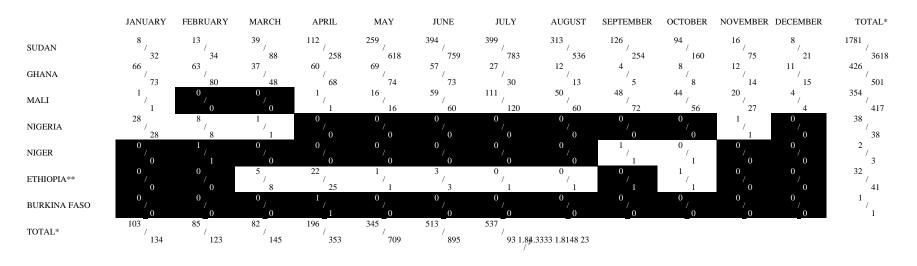


Figure 2
Number of Indigenous Cases Reported During the Specified Period in 2007 and 2008*, and Percent
Change in Cases Reported

Country	Indigenous Cases Reported		% CHANGE 2007 - 2008							
	2007	2008*	-100%	-50%	0%	50%	100%			
Ghana	3358	501	-85%							
Niger	11	2	-82%							
Nigeria	73	38		-48%						
Sudan	5815	3618		-38%						
Mali	313	417				33%				
Ethiopia	0	39			~					
Total	9570	4615		-52%						
All countries, excluding Sudan	3755	997	-73%							

^{*} Provisional: excludes 4 cases exported from one country to another

^{**} Although the source of the infection of 38/41 cases reported by Ethiopia has not been established beyond all doubt so far, available evidence suggests local transmission of GWD leading to these cases was likely during 2007. Moreover, one undisputed indigenous case was reported in October 2008 in the same area of Gambella Region. Two other cases were imported from Southern Sudan.

Table 2

Number of Cases Contained and Number Reported by Month during 2009*

(Countries arranged in descending order of cases in 2008)

COUNTRIES REPORTING CASES		NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED											%	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL*	CONT.
SUDAN	/	/	/	/	/	/	/	/	/	/	/	/	0 / 0	
GHANA	31 45	/	/	/	/	/	/	/	/	/	/	/	31 _{/ 45}	69
MALI	0 / 0	/	/	/	/	/	/	/	/	/	/	/	0 / 0	
ETHIOPIA**	0 0	/	/	/	/	/	/	/	/	/	/	/	0 / 0	
NIGERIA	0 / 0	/	/	/	/	/	/	/	/	/	/	/	0 / 0	
NIGER	0 / 0	/	/	/	/	/	/	/	/	/	/	/	0 / 0	
TOTAL*	31 / 45	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 0	0 / 0	0/0	0/0	31 _/ 45	69
% CONTAINED	69												69	
% CONT. OUTSIDE SUDAN	69												69	

^{*} provisional

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

Figure 3
Number of Indigenous Cases Reported During the Specified Period in 2008 and 2009*, and Percent Change in Cases Reported

Country	Indigenous Cases Reported		% CHANGE 2008 - 2009*							
	2008	2009*	-100%	-50%	0%	50%	100%			
Nigeria (1)	28		-100%							
Mali (1)	1	0	-100%							
Ghana (1)	73	45		-38%						
Ethiopia(1)	0	0			0%					
Niger (1)	0	0			0%					
Sudan		NR			~					
Total	102	45		-56%						
All countries, excluding Sudan	102	45		-56%						

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

⁽¹⁾ Indicates months for which reports were received, i.e., Jan 2009

^{**} Although the source of the infection of 38/41 cases reported by Ethiopia has not been established beyond all doubt so far, available evidence suggests local transmission of GWD leading to these cases was likely during 2007. Moreover, one undisputed ind

IMPORTED CASES:

Previous issues of the Guinea Worm Wtapp-have encouraged National Guinea Worm Eradication Programs (GWEPs) dontain and explain the probable origin of infection for each case of Guinea worm disease (GWD). Determination of the place where the patient was infected includes a detailed history of travel/movementhe patient during the preceding 10-14 months, as well as the village/locality of residence (home village) of the patient. Establishment of the place of residence is an important component that helps determine whether a case is imported from elsewhere, and necessary to avoid confustivisinterpretation, or misse of data gathered during a case investigation. If person with GWD resident ione country is detected and declared a case of GWD in another country, the dinvestigation establishes that the person was resident in the country of origin 10-14 monthscore, that person is declared to be an imported case of GWD by the country where the case was sotted, and the country of residence of the person is immediately notified aboutet but come of the case investigation.

However, the vast majority of imported cases ON/D are importations from villages, districts, regions within the same country. Sorting outlere the person became infected, although often problematic, must always begin by first esisting the home village/locality of the person, and determining the travel history of the person during the the home village/locality of the person, and determining the travel history of the person during the the home village/locality of the person, and determining the travel history of during the the home village led "imported" on the mere basis of a history of having visited another endemic village of eterton are also endemic (possibility of unreported indigenous cases the year before). A meret to an endemic village should not necessarily make one immediately conclude at was the place where endfion occurred, without first careful consideration of the following aspects:

- 1. Whether the visit to the endemic villagecissincident with the paproximately one year-long incubation period, i.e., 10-14 months before the emergence of the Guinea worm.
- 2. Whether the village of usual sidence or where the case watestected are also endemic. The investigation must clearly establish that patient was not present either in his or her usual village of residence, or in the large where they were detected 10-14 months before the Guinea worm emerged.
- 3. When the village of usual residence orementhe case was detentare known to have endemic transmission and it is established that the person was resident in one or the other 10-14 months ago, the case should be considertiglenous to one other village, even if the patient's history of travel indicates visits to other endemic villages. All interventions against transmission of GWD should be ongoing in both endemic villages.
- Once the case investigation is concluded, thutcome of the investigation must be immediately communicated to the region, distrivillage where then fection is believed to have originated.

The case is only considered imported if the **istings** tion clearly establishes that the probable source, or origin, of infectin is associated with a committyn distinctly apart from the community where the case was detected.e **CHWEP** would then immediately cross-notify supervisors covering the suspectarea of infection to ensure that the imported case was not

already reported and to determent there is sufficient surveithce and supervision in the area associated with the source of infection.

A non-endemic community can only be declared exprice 10-14 months after an imported case is detected when resulting indigenous cases of DGM/ve detected (a result of contamination of sources of drinking water) (WER, No.37 13 Seephber 2003). Figure 4 shows three types of travel patterns that may lead to declaring cases imported. In each scenario the detected case is imported and the source of infection/illsage B. Misclassifying an imported case or confusing the residency of a case the three source of infection can

IN BRIEF

<u>Niger</u>: Three teams from the National Guinea Worm Eradication Pre-Certification Committee visited the field on January 12-19. One teamtevits Diffa, Zinder and Martia Regions, another went to Tahoua and Niamey, and the third team visited Tillaberi and Dosso Regions. Niger's 16th Annual National Program Reviewas held on February 3-5, 2009.

MEETINGS

The next meeting of the **tler**national Commission for Ciefrication of Dracunculiasis Eradication is tentatively scheled to be held in Geneva, witzerland during October 21-23, 2009

RECENT PUBLICATIONS AND BROADCASTS

Senior K. 2009. The end is nigh for Guinea worm disease. The Language 49

We regret to report the death of Dr. Jude Anosikleich occurred in Germany on December 22, 2008. Dr. Anosike was the pert administrator for The Carter Center's River Blindness Program in Irand Abia States of ligeria in 1995-1998, and later served as a valued consultanthe Guinea Worm Eradication Program in Ebonyi State. Because the effectiveness of his work, he was awarded a Jimmy and Rosalynn Carter Award for Guinea MoEradication in 2002. We extend our deepest condolences to his family.

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

In memory of BOB KAISER

For information about the GW Wrap-Up, contact the WHO Collabog Center for Research, Training, and Eradication of Dracunculiasis, NCZVED, Centers Disease Control and Prevention, F-22, 478/60ford Highway, NE, Atlanta, GA 30341-3724, U.S.A. FAX: 770-488-7761. The GW Wrap-Up web locatio http://www.cdc.gov/ncidod/dpd/paitess/guineaworm/default.htm