#### DEPARTMENT OF HEALTH & HUMAN SERVICES

Date: March 20, 2000

From: WHO Collaborating Center for

Research, Training and Eradication of Dracunculiasis

Subject: GUINEA WORM WRAP-UP # 99

To: Addressees

### **Detect Every Case, Contain Every Worm!**

### 17 COUNTRIES PARTICIPATE IN FIFTH MEETING OF NATIONAL PROGRAM COORDINATORS

About 100 participants, including representatives of Benin, Burkina Faso, Cameroon, Central African Republic, Chad, Côte d'Ivoire, Ethiopia, Ghana, Guinea, Mali, Mauritania, Niger, Nigeria, Senegal, Sudan, Togo, and Uganda convened in Ouagadougou, Burkina Faso on March 6-9, 2000 for the Fifth Meeting of National Program Coordinators of Guinea Worm Eradication Programs. Former Head of State of Nigeria, General Yakubu Gowon, and former Head of State of Mali, General Amadou Toumani Toure, who have been active advocates for Guinea worm eradication since 1999 and 1993, respectively, both attended and delivered inspirational messages during the Opening Ceremony. This was General Gowon's first participation in one of the annual international meetings on Guinea worm eradication.

General Gowon, General Toure, and one representative of each of the three major co-sponsoring agencies, (WHO, UNICEF and The Carter Center/Global 2000) also met with the Head of State of Burkina Faso, President Blaise Compaore, to discuss the progress of the eradication campaign. Participants at the coordinators meeting also included several health workers in Burkina Faso's eradication program from districts outside of Ouagadougou, some of the US Peace Corps Volunteers who are participating in the national programs in Burkina Faso and Niger, and one of the Japanese Volunteers who is assisting the program in Niger. Mr. Ross Cox and Mr. Nicholas Farrell represented CDC at the meeting. During the Opening Ceremony, Dr. Donald Hopkins of The Carter Center emphasized the need for the remaining endemic countries to improve supervision and motivation of village-based health workers, increase the intensity and diversity of health education and community mobilization activities (see below), and systematically monitor the status of interventions as well as cases.

Representatives of each country made brief presentations describing the current status of the disease and of the eradication efforts in their nation, followed by discussion. The meeting also included a full day of discussion in three working groups, comprising representatives of countries in the pre-certification stage, and representatives of the still endemic francophone and anglophone countries. The final official reports of statistical data for 1999 are summarized in Figures 1 – 5 and Tables 1, 3 and 4. Cases reported so far during 2000 are shown in Table 2. Highlights of the meeting included presentations and discussions of reasons for the recent lack of progress in Ghana and Nigeria and the steps those two countries have taken to reinvigorate their programs; evidence supporting the recent interruption of transmission of dracunculiasis in Cameroon, Chad, and Senegal; and the significant progress towards interrupting transmission in most of the other countries, as well as in the northern states of Sudan. Cameroon reported that it had investigated a case which was cross-notified from Nigeria last July and found no evidence of infection for the past several years in the alleged originating area near Lake Chad, and that no one in the community knew the patient. Central African Republic (C.A.R.) showed a video illustrating some of the 26 cases that it now reported for 1999, all of which were found in southeastern villages bordering the Democratic Republic of Congo. During follow-up meetings with the major external partners, Cameroon and Chad were unable to secure support for their ongoing integrated surveillance activities.

<u>Dr. Fred Wurapa</u> of the International Commission for the Certification of Dracunculiasis Eradication described the results of the latest meeting of the Commission (see below), and announced that the group had recently recommended that India be certified as having interrupted transmission of the disease. He stressed the level of documentation that the Commission will require in order to certify that transmission has been interrupted in recently endemic countries, and urged the national coordinators to begin preparing for that by



funding, used line listings to prioritize endemic villages, implemented cash rewards for reporting of cases, and intensive supervision and spot-checking, and both replaced poorly performing health workers. Both programs also had to contend with insecurity in endemic areas. Although the Guinea Worm Eradication Program is not a high

priority for the ministry of health in Ethiopia, it enjoys strong governmental support in Uganda.

## INTERNATIONAL COMMISSION RECOMMENDS CERTIFICATION OF INDIA AND 41 OTHER COUNTRIES



The International Commission for the Certification of Dracunculiasis Eradication (ICCDE) held its fourth meeting at WHO headquarters from 15 to 17 February 2000. The Commission reviewed applications from 55 countries and territories from the 6 WHO Regions and recommended to the Director General of WHO to certify 42 countries and territories as free of Dracunculiasis:

- Africa Region: Burundi, Lesotho, Malawi and Namibia.
- Region of the Americas: Antigua & Barbuda, Argentina, Aruba, Bahamas, Belize, Chile, Costa Rica, Ecuador, Guatemala, Guyana, Haiti, Honduras, Paraguay, Peru, Puerto Rico, Saint Vincent & the Grenadines, Suriname, USA (including US Virgin Islands) and Venezuela.
- Eastern Mediterranean Region: Libya, Morocco and Saudi Arabia.
- **European Region**: Georgia, Greece, Portugal (including Azores and Madeira), Tajikistan, Turkey, and Turkmenistan.
- South East Asia Region: India, the Democratic People's Republic of Korea and Thailand.
- Western Pacific Region: Australia and its territories, China, the Marshall Islands, Nauru, New Zealand, the Northern Mariana Islands and Tokelau.

Commission members expressed admiration for the excellent documentation provided by India's program in its Country Report to the commission. Several participants also expressed concern about the poor state of surveillance for dracunculiasis in Kenya, based on the report of the review of that system by the Kenyan Ministry of Health and WHO staff in September 1999 (see *Guinea Worm Wrap-*

program coordinator, Dr. Sam Bugri. Ripples from the head of state's remarks began to be felt almost immediately, with further intensification of activities in endemic districts. Dr. Bugri himself participated in a "durbar" organized by the ministry of health to re-launch the eradication program in the highest endemic district, Kete-Krachi (Volta Region), on February 10<sup>th</sup>. By early March, inhabitants of that district's highest endemic community, Osramani (reported one-fourth of the district's 1,666 cases in 1999), were drinking safe, clean water from a new source as a result of efforts by Mr. Francis Yaw Osei-Sarfo, District Chief Executive and the District Assembly. Similar new efforts are underway in the second-highest district, Atebubu (Brong-Ahafo Region). Filter coverage of households in most endemic villages of Northern, Volta, and Brong-Ahafo Regions has increased dramatically to near-saturation levels. Filters are also being provided for use by farmers while in their fields. Specific measures have been taken to motivate village-based health workers and ensure that they actively search for cases, and to correct deficiencies in management of surgical extractions and the reward system. The program has begun using line-listings and new supervisory check-lists. Approximately 2000 new flip charts, 5000 posters and 1000 t-shirts are being distributed, courtesy of Global 2000 and WHO. Brong-Ahafo Region is finalizing a new booklet to aid teaching about dracunculiasis prevention in schools. All these activities have been accompanied by several related news reports on Ghana national radio, television, and newspapers. This program is also receiving increased technical assistance from The Carter Center/Global 2000, including a visit in March by Drs. Ernesto Ruiz-Tiben and Donald Hopkins.

CHAD 0 0 3 0 0 COTE D'IVOIRE 89 100 1410 467 UGANDA 111 100 899 316 MALI 114 75 646 403 MAURITANIA 41 100 379 255 BENIN 135 90 685 473 ETHIOPIA 38 100 359 249 NIGER 170 100 2684 1912 TOGO 164
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Number of cases contained and number reported by month during 1999\*
(Countries arranged in descending order of cases in 1998)

COUNTRY					NUMBE	R OF CASES CON	TAINED / NUMBER	R OF CASES REPO	ORTED					
														%
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL*	CONT.
	1365	1658	1517	1631	3595	4614	4592	4293	3576	2939	2323	1420	33523	
	/	/	/	/	/	/	/	/	/	/	/	/	/	
SUDAN	2894	3290	2946	3189	6567	9321	9848	9867	8304	4345	3601	1925	66097	51
	585	755	945	874	1148	1130	781	557	353	331	524	479	8462	
NIGERIA	1372	1435	1175	1112	1437	1502	1566	976	536	506	780	840	13237	64
	921	616	546	450	378	231	124	54	88	385	571	1180	5544	
	/	/	/	1	/	/	1	/	/	1	/	/	1	
GHANA	1140	1139	1000	771	650	412	214	83	131	501	1115	1871	9027	61
	2	3	2	6	35	156	215	197	161	87	32	20	916	
NIGER	/	/	/	/	/	/	/	/	/	/	/	/	/	**
NIGER	2	3	46	19	45 160	300 243	480 201	486 156	332 131	157 11	63 32	44	1920 1001	48
	1	1 ,	46	19	160	243	201	156	131	11	32	0	1001	
BURKINA FASO	1	5	65	74	291	626	459	363	211	18	40	7	2160	46
	87	57	20	33	48	60	53	53	101	159	188	113	972	
	1	/	1	1	1	1	1	1	/	1	1	1	1	
TOGO	102	84	32	35	71	73	101	122	148	334	330	157	1589	61
	40	27	30	29	37	56	33	17	18	28	24	20	359	
COTE DINOIDE	/	/	/ 00	/	/	/	/	/ 00	/	/ 00	/ 05	/ 00		
COTE D'IVOIRE	55	44	39	45	54	67	44	22	20	29	35	22		

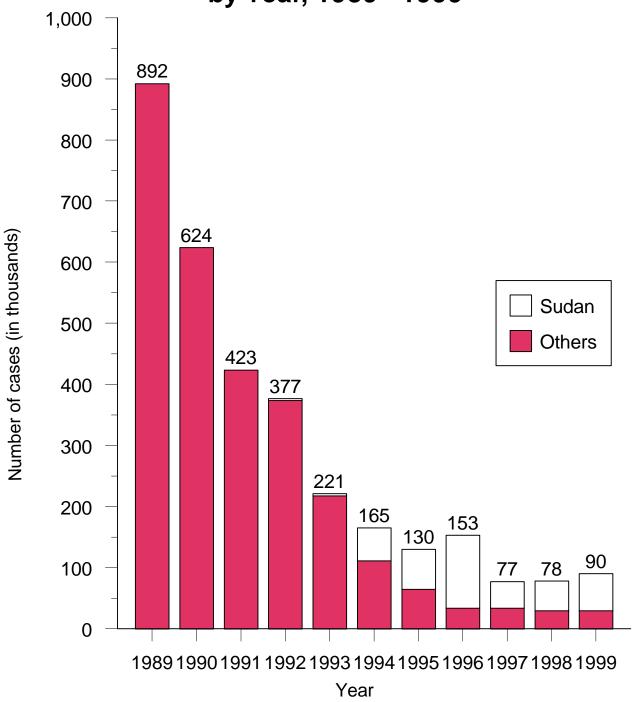
Number of cases contained and number reported by month during 2000\* (Countries arranged in descending order of cases in 1999)

COUNTRY		NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED											%	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL*	CONT.
SUDAN	64 / 87	/	1	1	1	/	/	1	/	I	/	/	64	74
NIGERIA	707	455 / 1021	1	1	1	/	/	1	/	1	/	/	1162	51
GHANA	1737 / 1896	/	1	/	/	/	1	1	1	I	/	/	1737 / 1896	92
BURKINA FASO	1	1	1	1	1	1	1	1	/	I	/	/	0 / 0	
NIGER	1 / 1	2 / 2	1	1	1	/	I	/	1	1	/	/	3 / 3	100
TOGO	/ 81	/ 49	1	/	/	/	I	/	1	I	/	/	0 / 130	0
BENIN	40 / 53	20 / 29	1	/	/	/	1	1	1	1	1	/	60 / 82	
COTE D'IVOIRE	21 / 25	12 / 44	1	1	1	/	I	1	1	I	/	1	33 / 69	48
MALI	/	1	I	1	1	1	1	1	1	1	/	/	0 / 0	
UGANDA	3 / 4	/	I	1	1	1	1	1	1	1	/	/	3 / 4	75
MAURITANIA	0	0 0	1	1	1	/	I	/	1	I	/	/	0 0	
ETHIOPIA	,	, 0	1	1	1	/	I	/	1	I	/	/	0	
C.A.R.	4	2	1	/	/	/	/	/	1	I	/	/	6	0
CHAD**	/	/	1	/	/	/	/	/	1	I	/	/	0	
CAMEROON **	2573	489	0	0	0	0	0	0	0	0	0	0	0 3062	
TOTAL*	1509	1118	, 0	, 0	, 0	, 0	0	, 0	0	0	, 0	, 0	4561	48
% CONTAINED	171	44											67	

<sup>\*</sup> Provisional

Figure 4

# Number of Reported Cases of Dracunculiasis, by Year, 1989 - 1999



# Year, Number of National Programs Reporting, and Number of Villages with Endemic Dracunculiasis

30,000

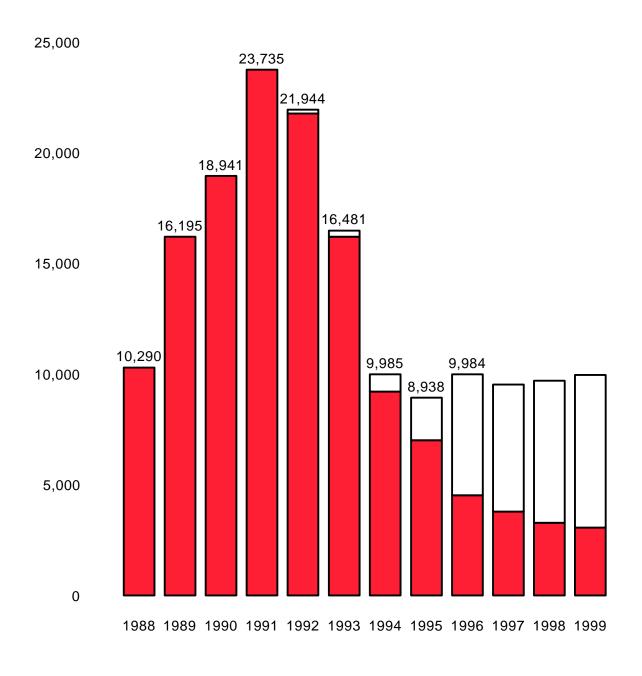


Table 3 **Dracunculiasis Eradication Campaign Reported Importations of Cases of Dracunculiasis: 1999** 

From	То	Cases					
1 10111	10	Month	Number	Contained	Notified*		
Benin	Togo	January	1	?	1		
		February	1	1	1		
Burkina Faso	Niger	May	3	?	3		
	Cote d'Ivoire	June	3	1	3		
		July	2	2	2		
	Ghana	June	3	3	?		
	Mali	July	1	1	1		
		August	1	1	1		
		September	4	4	4		
Cote d'Ivoire	Mali	December	1	0	?		
Ghana	Togo	January	2	2	?		
	Cote d'Ivoire	March	1	1	1		
	Benin	August	1	1	1		
Mali	Niger	September	1	?	1		
		?	1	?	1		
	Burkina Faso	?	2	?	?		
Niger	Cote d'Ivoire	August	2	2	2		
<u> </u>		November	1	1	1		
Nigeria	Cameroon	January	1	1	1		
<b>3</b>		May	1	1	1		
		June	1	1	1		
		July	3	3	3		
		August	2	2	2		
	Niger	?	3	?	3		
	Chad	September	1	1	1		
Sudan	Uganda	January	1	1	1		
	3	April	1	1	1		
		June	1	1	1		
		August	2	?	?		
	Kenya	August	1	?	1		
	Cent. Afr. Rep.	?	1	?	?		
Togo	Benin	January	1	0	1		
9-		February	1	0	1		
		May	10	3	10		
		July	1	0	1		
		August	1	0	1		
		September	1	1	1		
		October	3	1	3		
	Ghana	April	13	11	?		
Dem. Rep. of Congo*		?	1	?	?		
Total	- σοπ. / π. πορ.	1.	82		<u>:</u> 57		

<sup>\*</sup> Notified to country of origin through WHO.

<sup>\*\*</sup> Endemic transmission of dracunculiasis in DRC not confirmed. Origin of infection is uncurtain.

### MONITORING HEALTH EDUCATION AND COMMUNITY MOBILIZATION ACTIVITIES

The need for programs to diversify and intensify their activities to educate and mobilize persons in at-risk villages is increasingly evident. Stale approaches based on a few posters and lectures by health staff are inadequate for the challenging endemic communities that remain. Programs should seek to foster discussion and dialogue about dracunculiasis prevention with affected populations as much as possible, while ensuring that key messages (always filter your drinking water; patients with emerging worms should never enter drinking water sources) are conveyed via as many channels as possible. As more countries use line-listings to help monitor the status of interventions against dracunculiasis in their Guinea Worm Eradication Programs, a code is needed to help indicate which health education/community mobilization measures are being used in affected areas. As a start, countries may wish to consider the following draft code, which was developed in Ghana. Local programs might be encouraged to compete to see how many of these different channels they can bring to bear in each of their area(s):

- 1. flip charts/demonstration of copepods in water
- 2. t-shirts/Guinea worm cloth
- 3. durbar (public ceremony)
- 4. posters
- 5. radio (news, messages, songs, jingles)
- 6. schools
- 7. churches/mosques
- 8. local chief/political/traditional leader
- 9. market strategy (megaphone, pagivolts, banners; for surveillance and education)
- 10. theater/drama
- 11. video/slide show
- 12. other

A code such as this would allow programs to reflect their health education / community mobilization efforts in depth in a small space on the line listing.

### IN BRIEF

**Benin** General Amadou Toure Toumani of Mali visited President Mathieu Kerekou in Benin February 18 – 22 to ask the president to become personally involved in Benin's program. While there, General Toure participated in a ceremony to deliver some of the 400 bicycles purchased by the Government of Benin for the Guinea Worm Eradication Program.

Niger <u>Dr. Donald Hopkins, Mr. M. Salissou Kane</u>, and <u>Mr. Issoufou Issa</u> of The Carter Center/Global 2000 met with <u>President Mamadou Tandja</u> on February 18<sup>th</sup> during a visit by Dr. Hopkins to Niger. The meeting took place in follow-up to a letter to the newly-elected head of state by former U.S. <u>President Jimmy Carter</u>. President Tandja said he plans to visit an endemic village later this year. Hopkins also visited several endemic villages in Mirriah District of Zinder Region.

**Uganda** UNICEF will provide 74 borehole wells to at-risk or endemic villages in 2000: 32 in Kotido, 22 in Moroto, and 20 in Kitgum. Uganda's National Steering Committee on Guinea worm eradication met for the second time on March 14<sup>th</sup>, under the chairmanship of <u>Dr. Sam Okware</u>. Members were given copies of criteria for certification of dracunculiasis eradication by WHO to study and make comments and contributions during the next meeting. It was agreed that active surveillance be intensified in all previously endemic villages. Members also agreed to increase the amount of cash reward for reporting of a case, with the amount to be decided at the Interdistrict Meeting on 27 – 29 March 2000 in Moroto.

Table 4 Dracunculiasis Eradication Campaign
Number of Villages Reporting one or more Cases of Dracunculiasis
During 1998 - 1999

Country	Number of villages repor	ting 1+ cases	%
	1998	1999*	Change
Sudan	3123	3824	22
Nigeria	1177	1059	-10
Ghana	625	934	49
Niger	282	170	-40
Burkina Faso	209	198	-5
Togo	203	164	-

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 Dr. Daniel Colley, Acting Director, WHO Collaborating Center for Research, Training, and Eradication of Dracunculiasis, NCID, Centers for Disease Control and Prevention, F-22, 4770 Buford Highway, NE, Atlanta, GA 30341-3724, U.S.A. FAX: (770) 488-4532. The GW Wrap-Up is also available on the web at <a href="http://www.cdc.gov/ncidod/dpd/list">http://www.cdc.gov/ncidod/dpd/list</a> drc.htm.



CDC is the WHO Collaborating Center for Research, Training, and Eradication of Dracunculiasis.