

Date: February 28, 2011

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

Subject: GUINEA WORM WRAP-UP #203

To: Addressees

CARTERS HONOR NIGER, NIGERIA DURING A SPECIAL CEREMONY AT 15TH MEETING OF GUINEA WORM ERADICATION PROGRAM MANAGERS

THE
CARTER CENTER



Waging Peace, Fighting Disease, Building Hope

More than 400 persons, including the ambassadors to the United States from Benin, Burkina Faso, India, Mauritania and Oman, joined President and Mrs. Jimmy Carter in a ceremony held at The Carter Center in Atlanta on February 17 to honor Niger and Nigeria for having reported no indigenous cases of Guinea worm disease (dracunculiasis) for at least twelve consecutive months. Niger reported its last indigenous case in the village of Tintihoune, Tillaberi Region, in October 2008. Nigeria reported its last indigenous case in the village of Ezza Nkwubor, Enugu East Local Government Area, Enugu State, in November 2008.



The Honorable Counselor, Mr. Boubacar Moussa Rilla of Niger's embassy to the United States accepted the Carter Center Award for Guinea Worm Eradication on behalf of Niger. Federal Minister of Health of Nigeria, the Honorable Prof. Onyebuchi Chukwu, accepted the Carter Center Award on behalf of his country. Former Nigerian Head of State General (Dr.) Yakubu Gowon, who made 82 advocacy visits to 135 endemic Nigerian villages after joining the campaign in 1998, spoke during the hour-long ceremony of Guinea worm disease's impact on people in affected communities. The Nigerian delegation to the ceremony also included Mrs. Victoria Gowon, Prof. Adetokunbo Lucas (a member of The Carter Center's International Task Force for Disease Eradication), the Honorable Mr. Patrick Onadipe (political minister of the Embassy of Nigeria), Honorable Minister Mr. Baba Garba (acting consul general-Atlanta), Mrs. Genevive O. Ndukwu (technical advisor to the Federal Minister of Health), and Dr. Henry Akpan (chief consultant epidemiologist in the Nigerian FMOH). Former Nigerian National Coordinator Dr. Lola Sadiq, former Nigerian Zonal Facilitator Prof. Luke Edungbola and former

Nigerien National Coordinator Mr. Sadi Mousa also attended the ceremony. Nigeria will increase its reward for reporting a case of GWD from 10,000 naira (~US\$5) to 25,000 naira in March 2011.

President and Mrs. Carter also presented Jimmy & Rosalynn Carter Awards for Guinea Worm Eradication to the national coordinators of Guinea Worm Eradication Programs of Niger and Nigeria, Mr. Harou Oumarou (“in recognition of his dedicated and effective leadership since 2004 and participation since 1991 in the campaign to eradicate Guinea worm disease-dracunculiasis-from Niger”) and Mrs. Ifeoma Anagbo (“in recognition of her dedicated and effective leadership since 2007 and participation since 1988 in the campaign to eradicate Guinea worm disease-dracunculiasis-from Nigeria”), respectively. The live webcast of former U.S. President Jimmy Carter and dignitaries from around the world celebrate Nigeria and Niger as the most recent countries to mark a full year with no indigenous cases of Guinea worm disease has been archived for viewing (as of March 7) on the Carter Center's website at <http://www.cartercenter.org/news/multimedia/HealthPrograms/GuineaWormEradicationAwards2011.html> and the handouts from the event can be downloaded from <http://www.cartercenter.org/resources/pdfs/news/features/gw-ceremony-20110-handout.pdf>

15TH MEETING OF GUINEA WORM ERADICATION PROGRAM MANAGERS

Participants at the Program Managers Meeting for endemic countries and countries in the pre-certification stage, which was held at The Carter Center on February 15-18, included representatives from Burkina Faso, Chad, Cote d'Ivoire, Ethiopia, Ghana, Kenya, Mali, Niger, Nigeria, Sudan and Togo. Drs. Dirk Engel, Gautam Biswas, Dieudonne Sankara, Adiele Onyeze and Alhousseini Maiga attended from the World Health Organization (WHO), Mr. Michael Forsor from UNICEF, Drs. Stephen Bloun, Mark Eberhard, Sharon Roy and Steven Becknell from CDC, Drs. Donald Hopkins and Ernesto Ruiz-Tiben and Mr. P. Craig Withers, Jr. from The Carter Center, and Dr. Anders Seier from Health and Development International (HDI), among others.

The country reports received during the Program Managers Meeting established the final figures for the national Guinea Worm Eradication Programs during 2010. The countries reported a total of 1,797 cases in 775 villages in 2010, from Sudan, Mali, Ethiopia, Chad and Ghana. Only 262 villages reported indigenous cases worldwide in 2010 (Tables 1, 2, and 3, and Figure 1). Recommendations from the meeting are included also in this issue.

- x Mr. Makoy Samuel Yibi director of the Southern Sudan Guinea Worm Eradication Program (SSGWEP) reported 1,698 cases (Tables 3 and 4) from 732 villages (only 227 villages reported indigenous cases) in 2010, of which 1,264 cases (74%) were contained. This is a reduction of 38% from the 2,733 cases reported by the SSGWEP in 2009, 78% of which were contained. The SSGWEP benefited greatly from peaceful conduct of the referendum on independence for Southern Sudan that occurred in January 2011. President and Mrs. Jimmy Carter visited Sudan during the referendum and discussed the status of the Guinea worm program with Mr. Makoy, Carter Center resident advisor Mr. David Stobbelaar the South Sudan ministers of health and of water resources and irrigation, and with the UNICEF resident representative in Southern Sudan, as well as with President Salva Kiir of Southern Sudan and President Omar Al-Bashir of Sudan. The SSGWEP will establish nine new “mobile” (tents) Case Containment Centers

(CCCs; 3 in Greater Kapoeta of Eastern Equatoria State, 1 in Central Equatoria State, 5 in Warrap State) in addition to the 7 permanent CCCs and 5 mobile CCCs that operated in Greater Kapoeta, Awerial County of Lakes State, and Warrap State during 2010. The

the current CDC investigation, and update the overall status of the GWEP for all countries on a monthly basis.

Burkina Faso

1. The program should reinforce the publicity of the cash reward nationwide.

Chad

1. The MOH and the Government of Chad need to declare the outbreak of GWD to be a national emergency and request assistance (financial, logistical, personnel) from all available partners now to begin responding immediately to the outbreak. The Government of Chad needs to provide the necessary resources to the program.
2. The impending transmission season of GWD in Chad (Jan. – Oct. 2011) requires that the MOH/Chad urgently refine and implement the plan of action and budget for GWD (village-based surveillance and intervention against transmission and supervision of all program activities) in the appropriate Regions, Departments, and Districts linked to the outbreak of GWD in 2010.
3. The MOH and the program need to review the preparedness of the Chad program by April 2011 before the peak transmission season.
4. A Reward system should be publicized nationwide.
5. The program needs to train village volunteers in all endemic villages.
6. The program needs to assess the quality of surveillance for GWD.
7. The program should consider establishing a mobile team in each endemic district to facilitate the detection and containment of cases.
8. The Ministry Water Resources and partners from the water sector need to enhance their participation in the national eradication effort and should be requested to fund the provision of safe and clean drinking water targeting Guinea worm endemic villages as a priority and ensuring that the maintenance a

Kenya

1. The program is encouraged to get the MOH to accelerate the appointment of the independent national commission to review the Guinea worm disease situation, surveillance and document progress.
2. The program should publicize widely the reward.
3. The IDSR and other health programs need to be engaged to report on GWD weekly.

Mali

1. Mali should plan intensified 2011 activities in specific communities based on careful analysis of the cases in 2009 and 2010 which were not contained or where the 2009 source remains unclear.

Nigeria

1. Nigeria should reintroduce weekly surveillance in the North Eastern States for cases that might come from Chad.
2. Nigeria should put Guinea Worm Disease on the list of diseases reported weekly.

North Sudan

1. North and South Sudan GWEPs should initiate a collaboration to share information on GWD monthly starting in March.
2. The IDSR in the border area should be strengthened and complemented with wide-spread announcements of the reward in north Sudan for Guinea worm disease reporting.
3. North Sudan should review its plan for 2011 to focus its scarce resources on activities that can give maximal probability of detecting any imported cases.

Southern Sudan

- 1.

improving access to safe drinking water. Guinea worm disease will be eradicated without the use of specific chemotherapy or the use of a vaccine.

1. Safe water supply: Countries that have achieved the elimination of Guinea worm disease should intensify efforts to improve access to safe drinking water as an intervention aimed at controlling other water-borne infections such as cholera, and childhood diarrheal diseases. The latter infections require a higher level of purification of drinking water to protect against viral and bacterial infections. The lessons learned from the Guinea worm programs can be further developed to target these other waterborne infections. The technologies used in the Guinea worm

Table 2

Number of Cases Contained and Number Reported by Month during 2011* (Countries arranged in descending order of cases in 2010)

| | NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED | | | | | | | | | | | | TOTAL* | % CONT. |
|-----------------------|--|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|--------|---------|
| | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | | |
| SUDAN | 5 / 6 | / | / | / | / | / | / | / | / | / | / | / | 5 / 6 | 83 |
| MALI | 0 / 0 | / | / | / | / | / | / | / | / | / | / | / | 0 / 0 | 0 |
| ETHIOPIA [^] | 0 / 0 | / | / | / | / | / | / | / | / | / | / | / | 0 / 0 | 0 |
| CHAD | 0 / 0 | / | / | / | / | / | / | / | / | / | / | / | 0 / 0 | 0 |
| GHANA | 0 / 0 | / | / | / | / | / | / | / | / | / | / | / | 0 / 0 | 0 |
| TOTAL* | 5 / 6 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 5 / 6 | 83 |

% CONTAINED

% CONT. OUTSIDE SUDAN

* 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 2010 (Countries arranged in descending order of cases in 2009)

| | NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED | | | | | | | | | | | | TOTAL* | % CONT. |
|-----------------------|--|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-------------|---------|
| | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | | |
| SUDAN | 5 / 6 | 21 / 35 | 78 / 113 | 119 / 160 | 144 / 190 | 173 / 241 | 273 / 361 | 226 / 290 | 118 / 159 | 71 / 95 | 31 / 41 | 5 / 7 | 1264 / 1698 | 74 |
| GHANA | 2 / 2 | 3 / 3 | 1 / 1 | 1 / 1 | 1 / 1 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 8 / 8 | 100 |
| MALI | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 1 / 1 | 0 / 0 | 4 / 6 | 6 / 6 | 13 / 19 | 18 / 19 | 3 / 5 | 0 / 1 | 45 / 57 | 79 |
| ETHIOPIA [^] | 0 / 0 | 1 / 1 | 2 / 2 | 6 / 6 | 1 / 2 | 1 / 2 | 1 / 1 | 2 / 2 | 1 / 1 | 1 / 1 | 2 / 2 | 1 / 1 | 19 / 21 | 90 |
| CHAD | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 1 | 0 / 0 | 0 / 1 | 0 / 3 | 0 / 3 | 0 / 1 | 0 / 1 | 0 / 0 | 0 / 0 | 0 / 10 | 0 |
| NIGER [^] | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 2 / 2 | 0 / 1 | 0 / 0 | 2 / 3 | 67 |
| TOTAL* | 7 / 8 | 25 / 39 | 81 / 116 | 126 / 168 | 147 / 194 | 174 / 244 | 278 / 371 | 234 / 301 | 132 / 180 | 92 / 118 | 36 / 49 | 6 / 9 | 1338 / 1797 | 74 |

% CONTAINED

% CONT. OUTSIDE SUDAN

[^] Ethiopia reported and imported case from Southern Sudan in June, and Niger reported three imported cases from Mali (2 in October and 1 in November).The origin of cases in Chad is uncertain. 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 2009 (Countries arranged in descending order of cases in 2008)

| | NUMBER OF CASES CONTAINED / NUMBER OF CASES REPORTED | | | | | | | | | | | | TOTAL* | % CONT. |
|----------|--|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-------------|---------|
| | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | | |
| SUDAN | 4 / 12 | 12 / 18 | 39 / 47 | 134 / 221 | 277 / 428 | 388 / 458 | 434 / 521 | 452 / 543 | 240 / 275 | 104 / 141 | 39 / 55 | 11 / 14 | 2134 / 2733 | 78 |
| GHANA | 40 / 45 | 49 / 50 | 50 / 52 | 27 / 28 | 30 / 34 | 18 / 19 | 6 / 7 | 1 / 1 | 1 / 1 | 2 / 3 | 0 / 0 | 1 / 2 | 225 / 242 | 93 |
| MALI | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 1 / 1 | 7 / 7 | 14 / 23 | 34 / 43 | 48 / 68 | 23 / 34 | 5 / 7 | 3 / 3 | 135 / 186 | 73 |
| ETHIOPIA | 0 / 0 | 0 / 0 | 2 / 2 | 6 / 6 | 2 / 5 | 6 / 8 | 2 / 2 | 1 / 1 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 19 / 24 | 79 |
| NIGERIA | 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 |
| NIGER | 0 / 0 | 0 / 0 | 0 / 1 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 1 / 2 | 0 / 1 | 1 / 1 | 0 / 0 | 2 / 5 | 40 |
| TOTAL* | 44 / 57 | 61 / 68 | 91 / 102 | 167 / 255 | 310 / 468 | 419 / 492 | 456 / 553 | 488 / 588 | 290 / 346 | 129 / 179 | 45 / 63 | 15 / 19 | 2515 / 3190 | 79 |

% CONTAINED

% CONT. OUTSIDE SUDAN

[^] Niger reported 5 imported cases: 1 21 report6om Ghana and 4rt6om Ma7.46 Td (34)Tj 4.22Tj 1.82 -0.5 Td (/)Tj 01 21 report6om Ghana and 4rt6om Ma7.46 T-1((ShadTj) 0ells denote months when zero ind.22nous 01 21 werej 1.82 -0. Numb

Figure 1

| Country | 2010 | 2011* |
|-----------------------------------|------|-------|
| Ghana (1) | 2 | 0 |
| Mali (1) | 0 | 0 |
| Sudan (1) | 6 | 6 |
| Ethiopia (1) | 0 | 0 |
| Chad (1) | 0 | 0 |
| Total | 8 | 6 |
| All countries, excluding Sudan | 2 | 0 |

Table 3

Dracunculiasis Eradication Campaign: Status of Interventions:2010*

| | Overall % change in indigenous cases in endemic | | | | Villages / Localities | | | | | | | | | |
|---------------------|---|--------------------------------------|--------------------------------|-----------------------------|--------------------------------------|-----------------------------------|----------------|---|------------------------------|------|------|-----|------|--|
| | No. reporting one or more cases | No. reporting only imported cases*** | No. reporting indigenous cases | Endemic villages 2009-2010* | Status of Interventions during 2010* | | | | | | | | | |
| | | | | | % reporting monthly^ | % with filters in all households^ | % using Abate^ | % with one or more sources of safe water^ | % provided health education^ | | | | | |
| Sudan | 1,698 | 0 | 74% | -38% | 732 | 505 | 227 | 676 | 99% | 98% | 60% | 22% | 90% | |
| Ghana | 8 | 0 | 100% | -97% | 4 | 0 | 4 | 19 | 100% | 95% | 100% | 84% | 100% | |
| Mali | 57 | 0 | 79% | -69% | 22 | 3 | 19 | 53 | 100% | 100% | 93% | 17% | 100% | |
| Ethiopia | 20 | 1 | 90% | -17% | 9 | 4 | 5 | 9 | 100% | 100% | 100% | 78% | 100% | |
| Niger | 0 | 3 | 66% | NA | 3 | 3 | 0 | 0 | NA | NA | NA | NA | NA | |
| Chad | 10 | ? | 0% | NA | 7 | 0 | 7 | ? | ? | ? | ? | ? | ? | |
| Total | 1,793 | 4 | 76% | -44% | 777 | 515 | 262 | 757 | 98% | 98% | 63% | 23% | 90% | |
| Total outside Sudan | 95 | 4 | 74% | -81% | 45 | 10 | 35 | 81 | 100% | 99% | 95% | 39% | 100% | |

* Provisional

** Imported from another country

*** imported from another country or from another in-country endemic village

^ The base of the percentage is the number of villages/localities where the program applied interventions during 2009-2010

NA = not applicable

Table 4

| | | | | | | | | | | | | | | |
|---------------|-------|---------|----------|-----------|----------|----------|-----------|-----------|---------|---------|-----------|--------|-----------|----------------|
| Kapoeta East | 2 / 2 | 15 / 27 | 62 / 92 | 51 / 83 | 64 / 89 | 54 / 82 | 39 / 56 | 20 / 26 | 10 / 13 | 4 / 7 | 1 / 1 | 0 / 0 | 322 / 478 | 67% |
| Kapoeta North | 0 / 0 | 0 / 0 | 12 / 16 | 46 / 52 | 33 / 43 | 15 / 19 | 5 / 6 | 9 / 11 | 3 / 5 | 1 / 3 | 0 / 0 | 0 / 0 | 124 / 155 | 80% |
| Kapoeta South | 0 / 0 | 0 / 0 | 0 / 1 | 5 / 7 | 2 / 3 | 1 / 2 | 4 / 6 | 2 / 2 | 4 / 5 | 2 / 3 | 1 / 2 | 0 / 0 | 21 / 31 | 68% |
| Torit | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 1 | 0 / 0 | 0 / 1 | 0 / 1 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 3 | 0% |
| | 2 / 2 | 15 / 27 | 74 / 109 | 102 / 142 | 99 / 136 | 70 / 103 | 48 / 69 | 31 / 40 | 17 / 23 | 7 / 13 | 2 / 3 | 0 / 0 | 467 / 667 | 70% |
| Tonj North | 1 / 1 | 2 / 2 | 0 / 0 | 4 / 4 | 9 / 14 | 34 / 47 | 77 / 99 | 60 / 85 | 36 / 45 | 8 / 12 | 3 / 3 | 1 / 2 | 235 / 314 | 75% |
| Tonj East | 0 / 0 | 1 / 1 | 1 / 1 | 7 / 8 | 3 / 3 | 30 / 39 | 59 / 77 | 45 / 57 | 21 / 31 | 20 / 24 | 15 / 20 | 3 / 4 | 205 / 265 | 77% |
| Tonj South | 0 / 0 | 1 / 1 | 0 / 0 | 1 / 1 | 2 / 2 | 3 / 3 | 36 / 40 | 16 / 18 | 5 / 9 | 2 / 2 | 1 / 1 | 0 / 0 | 67 / 77 | 87% |
| Gogrial East | 0 / 0 | 0 / 0 | 1 / 1 | 0 / 0 | 0 / 0 | 2 / 4 | 6 / 6 | 5 / 6 | 1 / 1 | 1 / 1 | 0 / 0 | 0 / 0 | 16 / 19 | 84% |
| | 1 / 1 | 4 / 4 | 2 / 2 | 12 / 13 | 14 / 19 | 69 / 93 | 178 / 222 | 126 / 166 | 63 / 86 | 31 / 39 | 19 / 2486 | 31 / 4 | 2 / 2 | 0.0019 Td (87% |



Figure 2

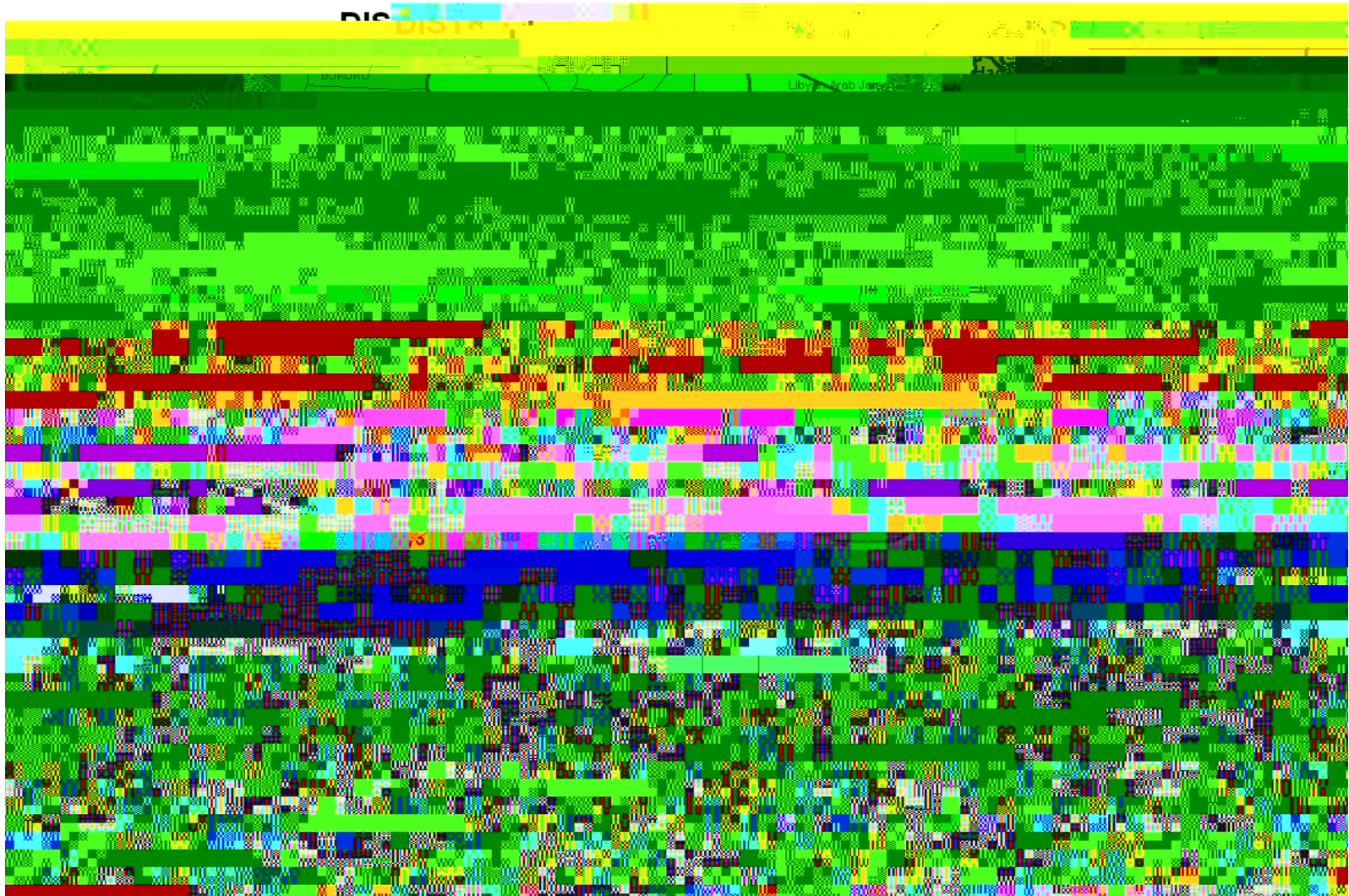


Figure 3

Reported Cases of Dracunculiasis From Chad: 2010 (Cases Arranged in Order of Date (month) of Worm Emergence)

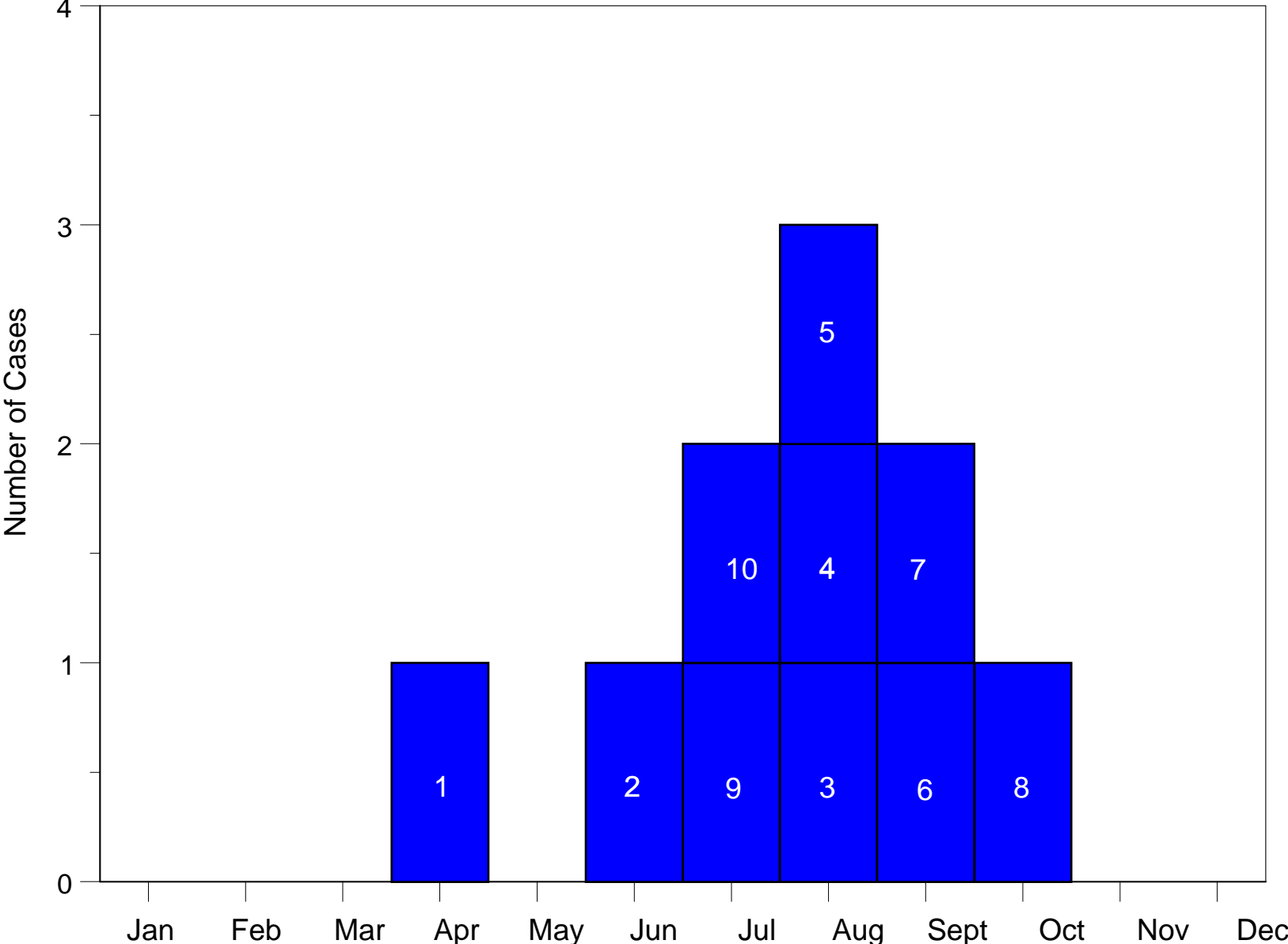


Table 5

Chad Guinea Worm Eradication Program
Reported Cases of Guinea Worm Disease: 2010*

| Patient Number | CDC Specimen Accession Number | Village of Residence | Village Where Case Detected | District | Age | Gender | Date of Detection | Date of emergence of 1st Guinea worm (total worms emerged) | Date case confirmed | Date GW extracted | Contaminated Water | Contained | Travel History: Year, Village and District |
|----------------|-------------------------------|-----------------------------|-----------------------------|------------|-----|--------|---------------------|--|---------------------------|---------------------------|--------------------|-----------|--|
| 1** | PDB10-10 | Nanguigoto | Nanguigoto | Guelendeng | 60 | F | April 2010 | 04 2010 (2 worms) | April 2010 | 1-Apr-2010 | Yes | No | 2008:Mitau Village, Guelendeng District; and Bram Village, Massenia District |
| 2** | PDB10-9 | Nanguigoto | Nanguigoto | Guelendeng | 27 | F | 18-Jun-10 | 18 June 2010 (1 worm) | 19-Jun-2010 | 23-Jun-2010 | Yes | No | 2008:Mitau Village, Guelendeng District |
| 3 | | Matassi | Matassi | Massenya | 27 | F | 20-Aug-10 | 24-Aug-2010 (1 worm) | 12-Sept-2010 | 24-Aug-2010 | Yes | No | 2005 and 2009:Matassi Village, Massenya District |
| 4** | PDB10-17 | Madjafa and Matassi | Matassi | Dourbali | 25 | F | 24-Aug-10 (2 worms) | 10-Aug-10 | 25-Aug-10 | 16-Sep-2010 | Yes | No | 2009:Raihoutou Village, Guelendeng District |
| 5 | PDB10-16 | Abba Limane since June 2010 | Abba Limane | Guelendeng | 15 | M | 24-Aug-10 | 10-Aug-10 (1 worm) Sep 2010 (1 worms) | 30-Aug-2010 and Sept 2010 | 2-Sept-2010 and Sept 2010 | Yes | No | 2010:Abba Limane Village, Guelendeng District |
| 6** | PDB10-15 | Abourgoui | Abourgui | Massenya | 60 | M | 2-Sep-10 | July-2010 (5 worms) | 13-Sept-10 | 13-Sept-10 | Yes | No | 1950s Abourgui Village, Dourbali District |
| 7** | PDB10-19 | Moulkou | Moulkou | Guelendeng | 4 | F | 17-Sep-10 | 17-Sept-2010 (1 worm) | 17-Sept-10 | 23-Sep-2010 | Yes | No | 2009:Cigague Village, Bousso District |
| 8 | PDB10-18 | Kakoua | Kakoua | Sarh | 9 | M | 1-Oct-10 | 1-Oct-2010 (1 worms) | 2-Oct-10 | 11-Oct-2010 | Yes | No | Kakoua |
| 9 | | ?? | Sila | Melfi | 10 | F | 1-Oct-10 | 1-Oct-10 (1 worm) | 2-Oct-10 | 11-Oct-2010 | Yes | No | |
| 10 | | ?? | Sila | Melfi | 42 | F | 15-Sep-10 | 15-Sept-10 (2worms) | 15-Sep-10 | 22-Spt-10 | Yes | No | |

* Provisional

** Worm specimens obtained from these patients were confirmed to be *Dracunculus medinensis* by the Centers for Disease Control and Prevention in Atlanta.

Patients 1 and 4 dates (underlined) are puzzling.

PDB10-15, 17, 19 "preserved" in water

PDB10-16 no specimen in container. However there is a photograph of this patient with a GW emerging from his ankle.

PDB10-18 fixed in formalin

Case # 1 = Aunt of case # 2

Cases # 4 , 5 are siblings.

Table 6

Chad Guinea Worm Disease Outbreak

| Region | District | Village | Case Number | Date of Search | Interventions | | | | | Comments | | |
|----------------|------------|------------------|--------------|----------------|---------------|--------------------|-------|---------------------|------|--------------------------|------------|--------------------------|
| | | | | | VV selected | IEC | ABATE | Filters Distributed | | | Safe Water | |
| | | | | | | | | Household | Pipe | | | |
| Mayo Kebbi Est | Guelendeng | Nanguigoto | 1, 2 | Aug 2010 | Yes | | | | | | | |
| | | Abba Limane | 5 | Nov/Dec 2010 | Yes | | | | | Migrant herdsmen | | |
| | | Moulkou | 7 | Aug 2010 | Yes | | | | | | | |
| | | Katawa | 4 | Nov/Dec 2010 | | | | | | Migrant herdsmen | | |
| | | Gole | | Nov/Dec 2010 | Yes | | | | | Missed case 2010? | | |
| | | Mitau | 1 | Aug 2010 | | | | | | | | |
| | | Mahaing | | Nov/Dec 2010 | Yes | | | | | | | |
| | | | | | | | | | | | | |
| Chari Baguirmi | Massenya | Matassi | 3, 4 | Nov/Dec 2010 | | | | | | | | |
| | | Madjafa | 4 | Nov/Dec 2010 | | | | | | Migrant herdsmen | | |
| | | Abourgui | 6 (5 GWS) | Nov/Dec 2010 | Yes | | | | | Missed cases 2007-2010? | | |
| | | Mouray | 4 | | | | | | | Migrant herdsmen | | |
| | | | | | | | | | | | | |
| | | | Bouso | Kanaga | | Nov 2010, Jan 2011 | | | | | | Missed cases 2009, 2010? |
| | | | | Bouram | 1 | Nov/Dec 2010 | | | | | | |
| | | Cegague/Tchigaga | | Nov/Dec 2010 | Yes | | | | | Missed cases 2009, 2010? | | |
| | | Kalba | | | | | | | | Missed case 2010? | | |
| | | | | | | | | | | | | |
| Moyen Chari | Sarh | Kakoua | 8 | Nov/Dec 2010 | | | | | | | | |
| | | | | | | | | | | | | |
| Guera | Melfi | Sila | 9, 10 | Nov/Dec 2010 | Yes | | | | | | | |
| | | Safi | | Nov/Dec 2010 | Yes | | | | | | | |
| | | Magnam | | Nov/Dec 2010 | Yes | | | | | | | |

WORLD HEALTH ORGANIZATION

On January 20, the Executive Board of the World Health Organization (WHO) approved a report (EB128/15) and draft resolution EB128.R6 on dracunculiasis eradication for consideration by the World Health Assembly in May 2011. Mozambique speaking on behalf of the African countries, Germany, the United Kingdom and the USA made comments and supported the draft resolution, a copy of which may be found at http://apps.who.int/gb/ebwha/pdf_files/EB128/B128R6-en.pdf

DEFINITIONS: ESTABLISHMENT OR RE-ESTABLISHMENT OF ENDEMICITY IN A COUNTRY, AND RUMOR OF CASE OF GUINEA WORM DISEASE

During the Program Managers Meeting, a small working group of representatives from endemic countries (Ghana and Sudan), The Carter Center, CDC, WHO, ICCDE, UNICEF and HDI agreed on the following criteria for declaring establishment or re-establishment of dracunculiasis endemicity in a country, and on a definition for a rumor of a possible case of GWD.

1. Criteria for declaring re-establishment of dracunculiasis endemicity in a country:

A country will be considered to have established or re-established dracunculiasis endemicity if

The country has not reported a confirmed indigenous case of the disease for >3 years, and*

Subsequently indigenous transmission of cases (laboratory-confirmed) is shown to occur in that country for three or more consecutive calendar years

2. Rumor of Guinea worm disease – Information about an alleged case of Guinea worm disease obtained from any source.

*Meets case definition of a confirmed case of dracunculiasis. Reference WHO, 2003 Dracunculiasis eradication: case definition, surveillance and performance indicators *Wkly Epidemiol Rec* 78:323-328.

DONATIONS Epidemio6ion of a 7A(Wklyfogram)houliasis endemicity1 Tc 0 Tw 6.3/ of the diselBorm





The John P. Hussman Foundation, a valued partner of The Carter Center since 2007, pledged a new \$1 million challenge grant in support of the Guinea Worm Eradication Program. Support from

individuals and organizations in response to the challenge grant will be matched by the Hussman Foundation on a one-to-one basis up to \$1 million. Based in Ellicott City, Maryland, the Hussman Foundation supports projects that are designed to benefit vulnerable, overlooked communities. The Foundation aims to have a major, sustainable impact at a low cost per person affected in medical research, model programs for replication, and emergency aid to improve health and education in developing countries. Prior contributions from the Hussman Foundation have advanced the Center's work to address Guinea worm disease, malaria, trachoma, and schistosomiasis.

RECENT PUBLICATIONS

Hopkins DR, 2011. Looking to the future in Sudan (letter). *New York Times* January 15:A18.

Warungu J. 2011. Turning the Corner. *BBC Focus on Africa* January-March:62-63.

World Health Organization, 2010.