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

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From: WHO Collaborating Center f@racunculiasis Eradicatio@DC

Subject: GUINEA WORM WRAP-

## CHAD HOLDS ANNUAL PROGRAM REVIEW

The Chad Guinea Worm Eradication Program (CGWEP) held its annual Program -3, 2022. The meeting, which was opened by Dr. Ishmael Barh Bachaßecretary General, Ministry of Public Health and National Solidarity, was attended by approximatel 70 persons including Vice Presidents Dr. Kashef Ijazand P. Craig Withers Jand Guinea Worm Eradication Program DirectorAdam Weissof The Carter CenterDr. Dieudonré Sankara(virtually), Drs. Ibrahim DjeomborændHonoré Djimrassengaof the World Health OrganizatioandDr. Jordan Tapperoof the Bill & Melinda Gates Foundation CGWEP National Program Coordinator. Tchindebet Ouakou The CGWEPprovisionally reduced the number buman Guinea worm cases 42% (from 12 to 7 and the number of animal infections by 47% (from 1,571 to 82) in 2021. Five (71%) of the human cases were contained and the presumed sources of infection were determined for five (71%) of them. Eightwerent (623/767) of the dog infections and 74% (48/65) of the cat infections were contained. percent of the dog infections occurred in only three presinMoyen Chari (329), Chari Baguirmi (209), and Mayo Kebbi Est (84)

As part of the strengthening of surveillance in refugee camps, the capacities of 363 community relays were strengthened on Guinea worm disease surveillance, 3650 people were sensitized, and 130 camp leaders were briefed20 camps.

In October 2021, researchers from The Carter Center and the University of Georgia/USA traveled the *Institut de Recherche en Elevage pour* 

le Developpement (IRED) to initiate a new trial investiating the efficacy of Flubendazoler to prevention and/or treatment of Guinea worm infection in dogs. The new trial uses a single subcutaneous injection of a concentrated formulation of the drug. Flubendazole was administered to 649 dogsin 29 villages; 561 dogs in 27 other villages did neuteive the drug, serving as controls.

## **CAMEROON-CHAD BORDER**

Cameroon ended indigenous transmission of Guinea worm disease inval92 artified by WHO as Guinea wormfree in 2007 and reported no Guinea wormfections in 2008 2018. It has since reported 1 human case Guinea worm disease (uncontained) in 2019, 1 human case (uncontained) 5 infected dogs (0 contained) and 1 infected ca (uncontained) in 2020; and 10 infected dogs (10 contained) in 2021 (Figure 1). All 18 infections (56% contained) ccurred uring the dry season in November March, in Nouldaina (8), Dabana (5), and Basteb (5) villages of Guere health district of Extreme North Provin Cameroon reported no Guinea worm infections in animals before 2020 This area of Cameroon has had few security concerns due to Boko Haram and is mostly accessible during the dry (transmission) season, but harder to access during the rainy season because of road conditions.

Figure 1

Chad detected cases of Guinea worm disease in 2010 after reporting no cases in the decade before that. It reported Guinea worm infections in dogs for the first time in 2012dog infetionshave greatly exceeded Guinea worm cases in hursiance then Bongor health district in Chad Kebbi Est Region reported 1 infected dog (contained) 2019,5 infected dog (2 contained) 2020, and 13 infected dogs contained in 2021 (Figure 1). These 19 infections (53% contained) in Bongor health district occurred 3 villages (10 in Djarwaye, 7 in Zigui, 2 in Tougoude) Guinea worm infections in Bongor health district occur mostly late in the dry seasand insecurity has not been a problem for conducting Guinea worm activities.

The villages reporting Guinea worm infections in Cameroon are part of a local epidemiological cluster of communities comprising faires living on both sides of the Chadameroon border in this area All of the villages with known Guinea worm infectionse located lose to the Logone River, which is the border etween Guere health district in Cameroon and and near the district in Chad (Figure 2). The two human cases Cameroon (a 49 year old woman and a syear old girl) and owners of the known infected animalism the three border communities neach side all belong to the Massa ethnic group and and fishermen/farmer except for the child, who had a history of staying in Chad during the ten months prior to her worm emerging in Cameroon in November 2020

Figure 2

Known Guinea worm-affected villages in border area of Bongor district/

Chad and Guere district/Cameroon, 2019-2021



## MALI HOLDS ANNUAL PROGRAM REVIEW

The Mali Guinea Worm Eradication Program (MGWEP) held its annual Program Review meeting in Bamako, with some participants joining virtually, on February 8-9, 2021. The meeting was opened Day GUINDO Abdoulaye the Minister of or, representing the Minister of Healthmong

others, the meeting was attended by The Carter Center Country Dilectorali Moussa The Carter Center representation Atlanta, Ms. Karmen Unterwegne Dr. Aboubacar Sidibé, NPO WHO Mali, Dr. Dieudonné Sankara (virtually), WHO HQ as well as National Certification Commission members, including Alhousseini Maiga National Program Coordinator Dr. Cheick Oumar Coulibal summarized the status of the program as of the end of 2021. Mali reported Guinea worm cases (one contained, presumed sources of infection unknown for both) in humans and 150 nfirmed animal infections (16 dogs, 1 cat/1/17(65%) contained) in 2021, which is a 90% increase from the 1 human case and 9 infected dogs reported in 12020. review meeting briefly discussed the testing of proactive tethering of 200 dogs and cats in Djenne town/Mopti Region, and the eace though Health Initiative in Tenenkou Sanitary district/Segou Regionas a catalyst for improved surveillance, investigations of Guinea worm cases, and access in the districtive dogs were also proactively tethered in Kolongo Bozo village of Macina district/Segou Regionin December both human infections occurred in 2021. MGWEP staff in Macina, Tominian, and Salistricts of Segou Region met with dog traders in Table 2.

## RECENT PUBLICATIONS

Goodwin CED, Lechenne M, Wilse Aggarwal JK, Koumetio SM, Swan GJF, Mound AiOzella L, McDonald RA, 2021. Seasonal fishery facilitates a novel transmission pathway in an emerging animal reservoir of Guinea worn Curr Biol Dec 9;S096@822(21)0160@2. https://doi.org/10.016/j.cub.2021.11.050

World Health Organization, 2022. Monthly report on dracunculiasis cases, January Dec. 2021. Wkly Epidemiol Rec 97:47-48.

Inclusion of information in the Guinea Worm Wrato does not

In memory of BOB KAISER

Note to contributors: Submit your contributions via email to Dr. Sharon Roy (gwwrapup@cdc.gov) or to Adam Weiss (adam.weiss@cartercenter.org), by the

to this issue were: the natial Guinea Worm Eradication Programos. Donald Hopkins Adam Weiss and Andrew Nute of The Carter Center, Dr. Sharon Roy of CDC, and Dr. Dieuél Stamkara of WHO.

WHO Collaborating Center for Dracunculiasis Eradication, Center for Global Health, Centers for Disease Control and Prevention, Mailstop A-06, 1600 Clifton Road NE, Atlanta, GA 30329, USA, email: gwwrapup@cdc.gov, fax: 404-728-8040. The GW Wrap-Up web location is <a href="http://www.cdc.gov/parasites/guineaworm/publications.html#gwwp">http://www.cdc.gov/parasites/guineaworm/publications.html#gwwp</a> Back issues are also available on the Carter Center web site English and French are located at <a href="http://www.cartercenter.org/news/publications/health/guinea-worm-wrapup-english.html">http://www.cartercenter.org/news/publications/health/guinea-worm-wrapup-english.html</a>.

http://www.cartercenter.org/news/publications/health/guinea worm wrapup francais.html



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