a person exhibiting a skin lesion or lesions with emergenting end of 2011, WHO had certified 192 countries and ter of one or more Guinea worms. Each infection is counted also ries as free from dracunculials) (4 countries remain a case only once during a calendar year. An imported caste is certified.

an infection acquired in a place (another country or village Substantial progress has been made since 1986 in reduce within the same country) other than the community where itng the annual number of reported dracunculiasis cases is detected and reported. Six countries where transmission of 1991 and 2004 WHA goals to eradicate dracunculiasis dracunculiasis was previously endemic (Cote d'Ivoire, Ghargeobally by 1995 and 2009, respectively, were not achieved Kenya, Niger, Nigeria, and Sudan) are in the precertification (6,7). Nevertheless, considerable progress toward eradication stage of eradication.

In each country affected by dracunculiasis, a national eradis worldwide reported by countries in which the disease is cation program receives monthly reports of cases from eachdemic decreased 49%, from 1,058 cases in 2011 to 542 cas village that has endemic transmission. Reporting rates are 2012. In January—June 2013, the 89 cases reported from calculated by dividing the number of villages with endemic villages in the four remaining dracunculiasis-endemic dracunculiasis that report each month by the total number ountries (Chad, Ethiopia, Mali, and South Sudan) represent of villages with endemic disease. All villages with endemic ductions of 77% and 45%, respectively, from the 393 cases dracunculiasis are kept under active surveillance, with dailsported from 51 villages during January—June 2012. Of the searches of households for persons with signs and symptom sases reported during January—June 2013, 83% were from suggestive of dracunculiasis. These searches are conducted Sudan.

to ensure that detection occurs within 24 hours of worm Chad was officially declared dracunculiasis-endemic again emergence so that patient management can begin to previen 2012 as a result of having an indigenout for third contamination of water. Villages where endemic transmission escutive year following discovery of cases in 2010. Char of dracunculiasis is interrupted (i.e., zero cases reported Ethiopia, and Mali have each reported slightly more cases in 12 consecutive months) also are kept under active surveillandamuary—June 2013 than in the same period of 2012. Active for 3 consecutive years.

WHO certifies a country free from dracunculiasis afte†An indigenous case is defined as infection occurring in a person exhibiting a that country maintains adequate nationwide surveillance for at least 3 consecutive years and demonstrates that no cases of indigenous dracunculiasis occurred during that period. As of

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surveillance for dracunculiasis conducted by the national efection program year of the conducted by the national efection program year of the conducted by the national effection program year of the conducted by the national effection of the national effection of the national effection of the conducted by the national effection of the national effection effection effection effection effection effection effe

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TABLE 2. Number of reported indigenous dracunculiasis\* cases, by country — worldwide, January 2011–June 2013

Country	2011	2012*	1-yr change (%)	January–June 2012*	January–June 2013	6-mos change (%)	Cases contained during January–June 2013 (%)
	1,02	521	(-4 )	3	4	(- 1)	( 0)
_'	12		(-42)	1	4	(300)	(25)
_	10	10	(0)	1	5	(400)	( 0)
. 1 - / 1 _	6	4	(-33)	2	6	(200)	(50)
Total	1,056	542	(-49)	393	89	(-77)	(67)

reported by Niger in September 2012 that were exported fro Mali, represent a reduction of 42% from the 12 indigenou cases reported in 2011. All three of the exported cases repo in Niger were contained; three of the four cases reported Mali were contained. Mali reported four cases in January June 2013, of which only one was contained, compared wi one case (contained) reported during January–June 2012. of the cases (not contained) reported in 2013 was from Mor Region, and three cases were from Kidal Region.

Mali's peak transmission season is June-October. The p gram has not been fully operational in three dracunculias endemic northern regions (Gao, Kidal, and Timbuktu) sinc April 2012, following a coup d'etat. Periodic humanitariar missions by the United Nations have allowed limited surve lance in areas around the town of Kidal, and parts of Ga and Timbuktu regions recently have become accessible the program. The most recent sampling of knowledge about

the cash reward for reporting a case of dracunculiasis fournderadication of dracunculiasis. The most recent available 70%-90% awareness in areas in which dracunculiasissampling of reward awareness found 83% awareness in an ar endemic (2012) and 0%-2% awareness in areas in which itnewhich dracunculiasis is endemic (2011) and 60% awarenes in an area in which it is not endemic (2012). not endemic (2011).

2012 2013.

Ethiopia. Ethiopia reported four cases (two contained) in Chad. Chad was officially declared dracunculiasis-endemic April, May, August, and December 2012, after 9 consecutivagain in 2012 after cases of dracunculiasis were confirmed months with no known cases. This was a reduction of 33% 3 consecutive years (2010-2012) er a decade with no from the six indigenous cases reported in 2011. The programported cases (8). Chad reported 10 cases (four contained) is reported six cases (50% contained) during January-June 20119, e villages in 2012, compared with 10 cases (four contained compared with two cases reported during the same periterported from nine villages in 2011, but only two of the 16 of 2012. Five of the six cases in 2013 involved residents villages had cases in both years. Specimens from several cases a hamlet where a worm emergence was associated withware confirmed at CDC as medinensis. Chad reported five uncontained case in April 2012. The sixth case involved cases in January-June 2013, of which four were contained resident of a village that had not reported a case since 20 from five villages, compared with one case reported during

The peak transmission season in Ethiopia is March-Mayanuary-June 2012. None of the villages reporting cases in The only known dracunculiasis-endemic village in 2012013 had reported a case previously. received a functioning borehole well in May 2013. After The peak transmission season in Chad appears to be April discussions during the World Health Assembly in May 2013, ugust. Since March 2012, The Carter Center has helped the

follow-up visits to Gambella by the federal minister of health. A country will be considered to have reestablished dracunculiasis endemicity. and a visit by a delegation of representatives from The Carter i) the country has not reported a confirmed indigenous case of the disease Center, WHO, and the Bill & Melinda Gates Foundation, for >3 years, and 2) subsequent indigenous transmission of cases (laborator the health ministry plans to designate staff devoted full time confirmed) is shown to occur in that country for 3 consecutive calendar years.

lance by training nearly 2,000 volunteers in 700 villages in three, and shows that the intensification of interventions there at-risk area along the Chari River. In addition to the unusual in 2012 is having positive results. Unless Chad, Ethiopia, and sporadic, limited nature of the outbreak in Chad over the palstali can overcome their own challenges quickly, South Sudar 3½ years, dogs with emerging worms have been detected thingth eliminate dracunculiasis before they do. the same at-risk area in the past year, often without any corThe main challenges requiring urgent attention by govern relation with villages where human cases have occurred. Thents and partners include 1) failures in surveillance and worms emerging from dogs are morphologically and genetiontainment (e.g., missed cases, unexplained sources of cases) cally indistinguishable from the Guinea worms emerging from uncontained cases), 2) establishment and maintenance humans. Intensive epidemiologic investigation and further surveillance in Guinea worm-free areas of all countries in genetic studies of these worms are being conducted. The mostch the disease still occurs or was recently eliminated, and recent sampling of reward awareness found 100% awaren syrviding clean drinking water quickly to as many targeted in an area in which dracunculiasis is endemic (2012) and 38/Mages as possible. Insecurity in parts of Mali is now the mair political barrier to complete eradication of dracunculiasis. awareness in an area in which it is not endemic (2012).

ministry of health to implement active village-based surveil cases in South Sudan, despite many challenges, is-encouraged.

Reported by

Donald R. Hopkins, MD, Ernesto Ruiz-Tiben, PhD, The Carfe World Health Assembly. Resolution WHA 39.21. Elimination of Center, Atlanta, Georgia. Mark L. Eberhard, PhD, Div of Switzerland: World Health Organization; 1986. Available at http://www. Parasitic Diseases and Malaria, Center for Global Health ho.int/neglected\_diseases/mediacentre/WHA\_39.21\_Eng.pdf Sharon L. Roy, MD, MPH, Div of Foodborne, Waterborne, and Vatts SJ. Dracunculiasis in Africa: its geographic extent, incidence, and Environmental Diseases, National Center for Emerging attrisk population. Am J Trop Med Hyg 1987;37:119–25.

Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication: global Zoonotic Infectious Diseases; World Health Organization Dracunculiasis eradication Dracunculiasis er Collaborating Center for Research, Training, and Eradication Of C. Progress toward global eradication of dracunculiasis, January Dracunculiasis; CDC. Corresponding contributor: Sharon L. 2011–June 2012. MMWR 2012;61:854–7.

5. Hopkins DR, Ruiz-Tibén E, Weiss A, Withers PC, Eberhard ML, Roy Roy, slroy@cdc.404-718-4698.

**Editorial Note** 

SL. Dracunculiasis eradication: and now South Sudan. Am J Trop Med

Hyg 2013;89:5-10. 6. Ruiz-Tiben E, Hopkins DR. Dracunculiasis (Guinea worm disease)

Based on the trend for 2012, when approximately three eradication. Adv Parasitol 2006;61:275–309.

World Health Assembly. Resolution WHA 57.9. Elimination of quarters of all reported cases occurred during January-Jung acunculiasis: resolution of the 57th World Health Assembly. Geneva, and initial findings for the same period of 2013, fewer than Switzerland: World Health Organization; 2004. Available at http://www. 150 cases of dracunculiasis likely will be reported in 2013. If sowho.int/gb/ebwha/pdf\_files/wha57/a57\_r9-en.pdf
this would be a historic law. The repid application in reduction in reduction in reduction in reduction. this would be a historic low. The rapid acceleration in reduction 2011:60:744–8.

a chest radiograph was normal. Because of persistent fevers noted when the patient was reevaluated on July 18, the patient under went a CT scan of the chest, abdomen, and pelvis without IV contrast; the scan revealed a left lower lobe pneumonia and mild pulmonary fibrosis of the right lung base. Laboratory analysis of

# Reported by

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### **Editorial Note**

Three of four patients with diagnosed histoplasmosis reported no recent travel and likely acquired their infections in Montana. Although patient 1 likely acquired her infection in Montana before traveling out of state, the possibility also exists that she acquired infection in California following exposure to bat guano—containing potting soil. Each of the four patients had immunocompromising conditions present before symptom onset, increasing their risk capsulatum disease (2). Patient 2 might have acquired infection during a cave exploration—related bat guano exposure. The lack of recent travel history to recognized areas with histoplasmosis endemic ity likely contributed to diagnostic delays for three patients; of these, two patients also had unusual clinical presentations, likely further contributing to diagnostic delays.

H. capsulatum culture from body fluids and tissues provides the strongest evidence of histoplasmosis, but is insensitive (8 Patient 3 was diagnosed after H. capsulatum isolation from a pulmonary nodule biopsy. The absence of recent travel outside of Montana for this patient suggests that the infection was acquired8ve ient5 0.012 Tw 17.6T1 2 1ww (8)ises,

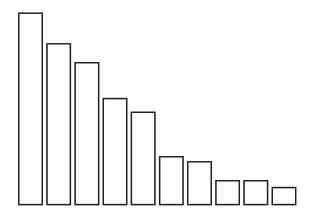
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### References

1.

FIGURE. Number\* and percentage of respiratory specimens testing positive for influenza reported by World Health Organization and National Respiratory and Enteric Virus Surveillance System collaborating laboratories in the United States, by type, subtype, and week — United States, May 19–September 28, 2013<sup>†</sup>



and one was associated with an influenza A virus for which sixtbluenza activity began in early August and decreased in mid typing was not performed.

September. Influenza A viruses predominated in both countries with influenza A (H3N2) viruses identified more frequently

### **Novel Influenza A Virus Infection**

Between May 19 and September 28, a total of 20 cases do identified in both countries. In South Africa, after a peak influenza A variant viruses (18 [H3N2]v and two [H1N1]v) in influenza activity caused by influenza A (pH1N1) in June, were reported from five states (Arkansas [two], Illinois [one], second, smaller peak was observed in early August because Indiana [14], Michigan [two] and Ohio [one]). The 20 cases increased influenza A (H3N2) and influenza B virus circula reported resulted in one influenza A (H3N2)v—associated hotion. In temperate areas of South America, influenza activity pitalization and no deaths. Although cases have been identificated in June and declined through September. Influenza A from five states, Indiana reported 14 (70%) of the 20 cases were reported more frequently than influenza B viruses In all 20 cases, contact with swine in the week before illnessed influenza A (pH1N1) was the predominant virus reported onset was reported. No ongoing community transmission by Argentina, Chile, and Uruguay. Influenza A (H3N2) viruses these viruses has been detected. The median age of patients ominated in Paraguay (2).

was 6.5 years (range: 2–69 years); 65% were female (Influentafluenza activity was reported from countries with tropical Division, National Center for Immunization and Respiratoryinfluenza seasonality. The overall level of activity compared biseases, CDC, unpublished data, 2013). with previous seasons, and the predominant subtype varied

biseases, CDC, unpublished data, 2013).

## Worldwide

During May 19-September 28, typical seasonal patterns and September, with cocirculation of influenza A (pH1N1) influenza activity occurred in the temperate climate Southernd influenza A (H3N2) viruses. In tropical South America, Hemisphere countries. In Australia and New Zealand influenza A (pH1N1) viruses predominated, with two peaks

than influenza A (pH1N1) viruses. Influenza B viruses were

by country. In the Caribbean and Central America, influenza activity peaked in early July and declined during August

of activity: the first in June, primarily the result of activity in Brazil and Columbia, and a second peak in late July, the result of increased activity in Ecuador and Peru. South Asia and Southeast Asia saw a decrease in influenza activity during September. Different combinations of types and subtypes

Compared with the summer of 2012, fewer human infections with novel influenza A viruses were identified in the United States in the summer of 2013. Since the first identification of H3N2v viruses in humans, direct contact with swine has been documented in most cases, but limited person-to-person spread is suspected in a small number. Consistent with the addistribution of patients, serologic studies suggest there is little or no existing cross-reactive antibody to H3N2v in young children, but a substantial proportion of adolescents and younger adults have cross-reactive antibody (

### Reported by

World Health Organization Collaborating Center for Surveillance, Epidemiology, and Control of Influenza. Scott Epperson, MPH, Lynnette Brammer, MPH, Lenee Blanton, MPH, Desiree Mustaquim, MPH, Krista Kniss, MPH, Craig Steffens, MPH, Anwar Isa Abd Elal, Larisa Gubareva, PhD, Teresa Wallis, MS, Jackie Katz, PhD, Julie Villanueva, PhD, Xiyan Xu, MD, Joseph Bresee, MD, Nancy Cox, PhD, Lyn Finelli, DrPH, Influenza Div, National Center for Immunization and Respiratory Diseases; Ikwo Oboho MD, EIS Officer, CDCorresponding contributor: Ikwo Oboho, ioboho@cdd10404039-3747.

### **Editorial Note**

During May 19–September 28, 2013, influenza A (pH1N1), influenza A (H3N2), and influenza B viruses cocirculated worldwide. In the United States, similar levels of seasonal influenza viruses were detected compared with summer months of previous years (excluding the 2009 pandemic), and influenza A viruses were predominant. Although neither the influenza viruses that will predominate nor the severity of influenza-related disease during the 2013–14 season in the United States can be predicted, antigenic characterization of viral isolates submitted during the summer demonstrated that the majority of influenza viruses were antigenically similar to the influenza vaccine strains contained in the 2013–14 Northern Hemisphere vaccine.

Treatment with influenza antiviral medications is recom mended as early as possible for patients with confirmed or susprammer L, Blanton, L, Epperson S, et al. Surveillance for influenza pected influenza (either seasonal influenza or variant influenzaduring the pH1N1 pandemic—United States, April 2009–March 2010. virus infection) who have severe, complicated, or progressive Clin Infect Dis 2011;52(Suppl 1):S27–35. illness; who require hospitalization; or who are at higher risk Switzerland: World Health Organization; 2013. Availatute: #www.who. for influenza-related complications 1/7).

Influenza surveillance reports for the United States are nor archives/en/index.ntml.

3. World Health Organization. Number of confirmed human cases of avian mally posted online weekly and are available altwww. cdc.gov/flu/weekl/Additional information regarding influenza viruses, influenza surveillance, influenza vaccines, influenza antiviral medications, and novel influenza A virus infections in humans is available at http://www.cdc.gov/flu.

### References

int/influenza/surveillance\_monitoring/updates/GIP\_surveillance\_2013

# **Acknowledgments**

State, local, and territorial health departments and public health laboratories; U.S. World Health Organization (WHO) collaborating laboratories; the National Respiratory and Enteric Virus Surveillance System collaborating laboratories; U.S. Outpatient Influenzalike Illness Surveillance Network; Influenza-Associated Pediatric Mortality Surveillance System; 122 Cities Mortality Reporting System; WHO FluNet.

# Notes from the Field

# Strongyloidiasis in a Rural Setting — Southeastern Kentucky, 2013

Strongyloidiasis is caused Strongyloides stercoralis, parasitic nematode (worm). Initial symptoms can include current infection (titers decrease after successful treatment). abdominal pain, diarrhea, or rash. Infection is often asymp tomatic in the chronic phase but can be life-threatening the chronic phase but can immunosuppressed persons. Transmission typically occurs invitations for testing were issued in group waiting areas. A total when larvae from stool-contaminated soil penetrate skin, 102 (13.6%) patients, all adults, agreed to be tested. Five intraintestinal autoinfection is also possible, sometimes allow ing infection to persist for decades. Serologic studies are often used in prevalence estimates because intermittent shedding of four cities in southeastern Kentucky. Four had an indoor most common in tropical and subtropical environments with the fifth had an indoor toilet with manual waste poor sanitation. In the United States, it is commonly reported ..... No travel to tropical countries was reported. among refugees and immigrants; in the 1980s, studies in the Although antibody testing cannot be used to differentiate rural southeastern United States also reported prevalence estimates ranging from 1.2%-6.11/2). Prevalence might have since decreased because of investments in sanitation ( however, no recent studies have been done, and strongyloidiasis is not a reportable disease in any state.

The Kentucky Department for Public Health and CDC sought to determine whethatrongyloides transmission continues in a rural area of the United States where transmission Diseases and Malaria, Center for Global Health; Elizabeth has been demonstrated in previous serostudies. Kentucky is a state where strongyloidiasis historically has been eathernic (Stephanie Davis, smdavis@cato467/18-4776. In 2011, Kentucky had 15 strongyloidiasis-related hospital discharge diagnoses reported by the Healthcare Cost and the United States: Montgomery SP. Soil-transmitted helminthiasis in the United States: Utilization Project database. (Origin and travel history are not reported in that database, making country of exposure Berk SL, Verghese A, Alvarez S, Hall K, Smith B. Clinical and epidemiologic unclear for those cases. Approval for this project was obtaine flatures of strongyloidiasis. A prospective study in rural Tennessee. Arc from the Kentucky Cabinet for Health and Family Services, Hughes J, Whisnant R, Weller L, et al. Drinking water and wastewater Institutional Review Board prior to the start of the study. infrastructure in Appalachia: an analysis of capital funding and funding Investigators recruited a convenience sample of patients attengaps. Chapel Hill, NC: University of North Carolina Environmental ing a nongovernmental organization's weekend clinic offeringedu/publications/2005/ARC/ARC\_FullReport.pdf dental, vision, and medical services in southeastern Kentuck Agency for Healthcare Search and Quality. HCUPnet, Healthcare Cost

consent, demographic information, exposure history, and blood samples that were tested by CDC for anti-S. stercorali antibody by enzyme immunoassay; a positive result indicated A total of 752 patients attended the clinic. Testing was history, autochthonous transmissio8toongyloides appears to

# Reported by

Stephanie Davis, MD, Elizabeth Bosserman, MPH, Susa Montgomery, DVM, Dana Woodhall, MD, Div of Parasitic Cussell, PhD, EIS OfficanC. Corresponding contributor:

a systematic review-1940-2010. Am J Trop Med Hyg 2011;85:680-4. Finance Center School of Government; 2005. Availatte: Aefc.unc.

All patients were eligible to enroll in the study and were referred and Utilization Project. Rockville, MD: Agency for Healthcare Research for free treatment if needed. Patients provided informed and Quality. Available at http://hcupnet.ahrq.gov

# Notes from the Field

# Strongyloides Infection Among Patients at a Long-Term Care Facility — Florida, 2010–2012

During a 2-week period in August 2011, two patients in specimens showed that both harb@treathqyloides stercoralis an intestinal nematode. A subsequent chart review revealed an intestinal nematode. A subsequent chart review revealed an about the possibility of an outbreak, the associate director, of patient care services at the facility contacted the Florida Recommendations were made to offer testing and treatment State Department of Health, which contacted CDC. This report describes the subsequent investigation.

and staff was performed to assess the prevalence of and associa tions with infection. Strongyloides informational packets were distributed to all residents and staff members, and consent Andrea Leapley, Florida International Univ, Miami; Alazandria for S. stercoralispecific antibody testing by crude antigen enzyme-linked immunosorbent assay. This serologic t by 6-18 months after successful treatment of the parasite

12 (11%) had a positive result, as did three from a convenience sample of 26 of the 238 staff members. All 15 persons with 4 740 4770 positive results reported being born either in North America

(five) or the West Indies (10). Thirty-seven long-term care facility residents in the convenience sample were born in the United States or Mexico, and four (10.8%) had results positive long-term care facility in Miami-Dade County, Florida, had for S. stercoralis-specific antibody; only one of these person gastrointestinal symptoms; microscopic examination of stool care facility residents reported corticosteroid use in the last 3 additional case within the facility 1 year earlier. Concerned performed, assessing whether any of the infections had

Department of Health in Miami-Dade County and the Florida to the residents and staff members who had not yet been approached and to extend this offer to incoming residents. Further research is needed to determine the prevalence of In May 2012, a serologic and risk-factor survey of residents

# Reported by

for serologic testing was obtained. In June, blood samples Cruze, MPH, Alvaro Mejia-Echeverry, MD, Florida Dept of from consenting residents and staff members were tested. Miami Dada County Daniella Standle DVM Burgay of Health Miami-Dade County, Danielle Stanek, DVM, Bureau of Disease Control and Prevention, Elesi Quaye, Bureau of Pu becomes positive after infection (how long after infection is leading to the state and Local Readiness, Office of Public Heading State and Local Readiness (No. 1) and the State and Local Readine Preparedness and Response; Isabel McAuliffe, Susan P. Montg In a convenience sample of 106 of the 176 facility residents, Aaron M. Samuels, MD, Div of Parasitic Diseases an

# Notice to Readers

# Notifiable Disease and Mortality Tables for Weeks 39–41 Now Online

The Notifiable Disease and Mortality Tables for surveillance weeks 39, 40, and 41 have now been posted MMMAR website, along with current week 42 data and the October 25, 2013, issue. The data include quarterly Table IV data regarding tuberculosis. Posting of the notifiable disease and mortality data for the 3-week period was delayed because of the lapse in government funding.

### FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

# Percentage of Emergency Department (ED) Visits During Which a Patient Was Seen by a Physician Assistant or Nurse Practitioner, Overall and Without a Physician Present\* — National Hospital Ambulatory Medical Care Survey, United States, 2000–2010

