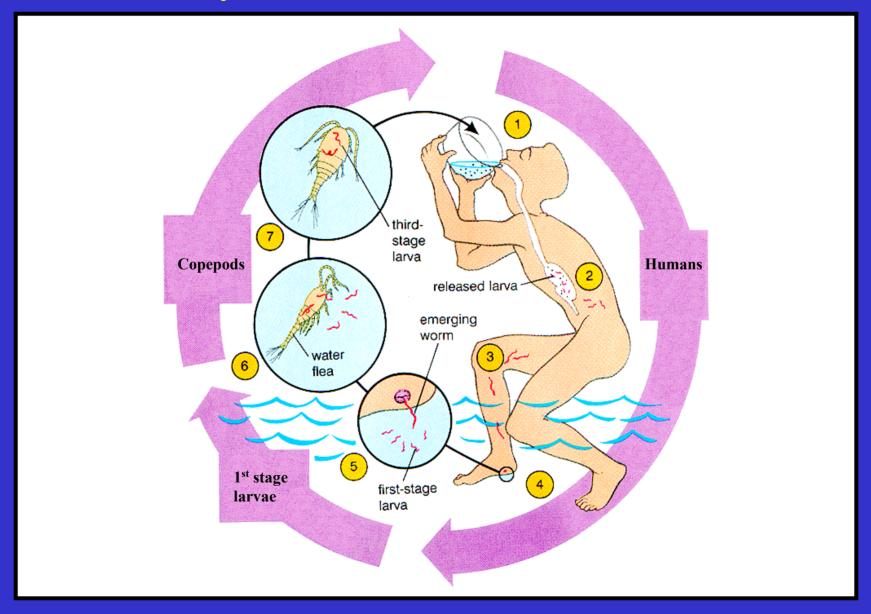
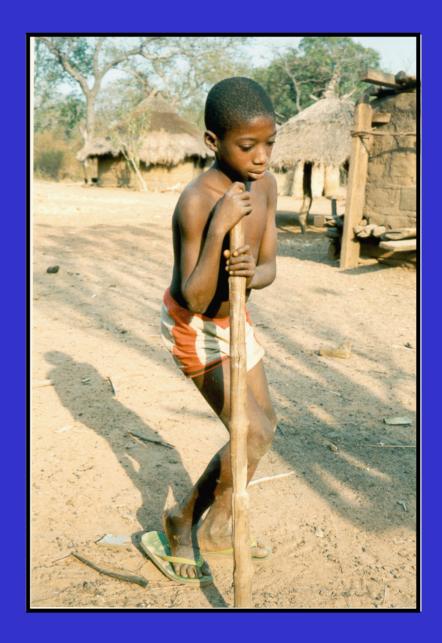
Dracunculiasis Eradication

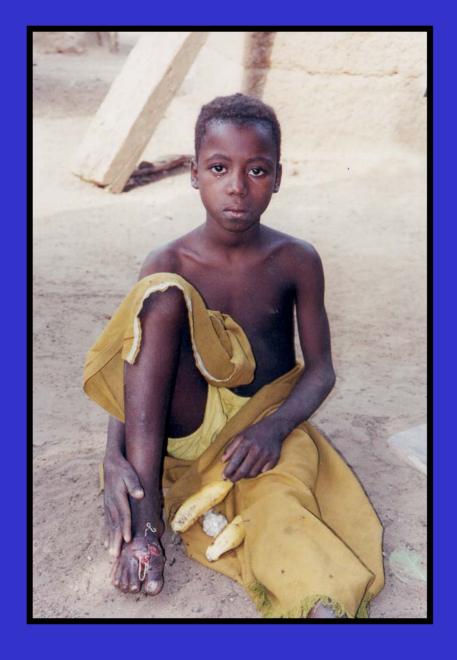
Ernesto Ruiz-Tiben, Ph.D.
Technical Director
Dracunculiasis Eradication
The Carter Center

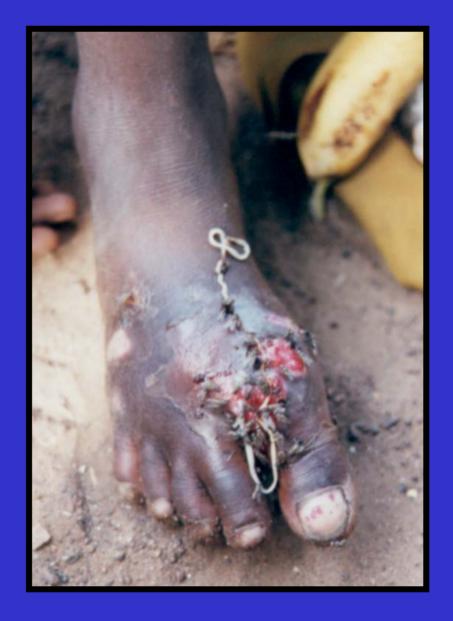
Lifecycle of Dracunculus medinensis











CDC suggests that eradication of dracunculiasis, a disease only transmitted via drinking water, would be the ideal indicator of the success of the United Nations 1980-1990 International Drinking Water Supply and Sanitation Decade

Workshop on Opportunities for Control of Dracunculiasis

- · Geographic distribution of dracunculiasis confined to countries in sub-Saharan Africa, India, Pakistan and possibly Yemen
- Elimination of dracunculiasis from USSR in 1920s and from Iran in 1970s without recurrence of the disease in humans after many years
- · No animal reservoir
- No human carrier state beyond the one year incubation period

Workshop on Opportunities for Control of Dracunculiasis

- No human immunity against infection
- No available medication against the disease
- Transmission of the disease markedly seasonal
- Unique clinical presentation

Workshop on Opportunities for Control of Dracunculiasis

- •Control methods included health education & community mobilization
- Provision of safe sources of drinking water
- •Application of the insecticide Abate (temephos) to unsafe sources of drinking water

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

First African Regional Workshop on Eradication convened in Niamey, Niger

- •Estimate of 3.2 million cases annually in Africa and 120 million people at risk of the disease in endemic areas
- •Global burden of dracunculiasis estimated to be 3.5 million cases annually

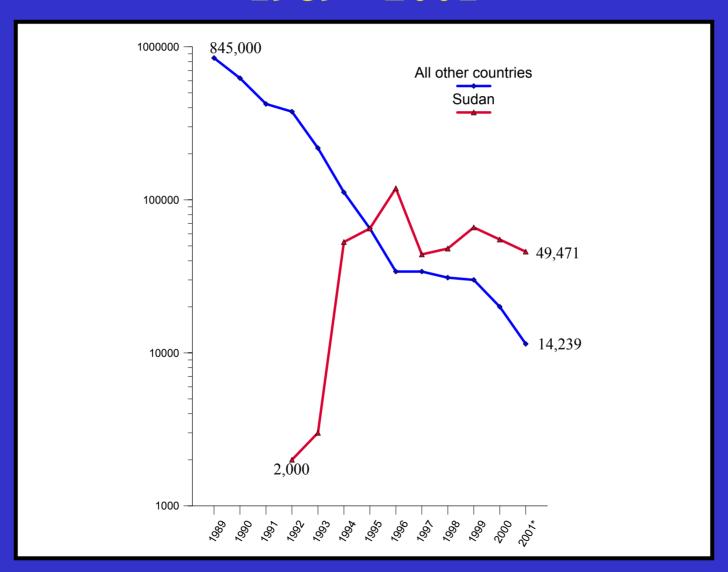
Dracunculiasis Eradication Campaign Program Start-Ups

Year interventi started	ons Country A	ctive Programs (cumulative)
1983	India	1
1988	Pakistan	2
1989	Nigeria, Ghana	4
1991	Cameroon	5
1992	Togo, Burkina Faso, Senegal, Ugano	da 9
1993	Benin, Mauritania, Niger, Mali, Cote d'Iv	voire 14
1994	Sudan, Kenya, Chad, Ethiopia	18
1995	Yemen	19

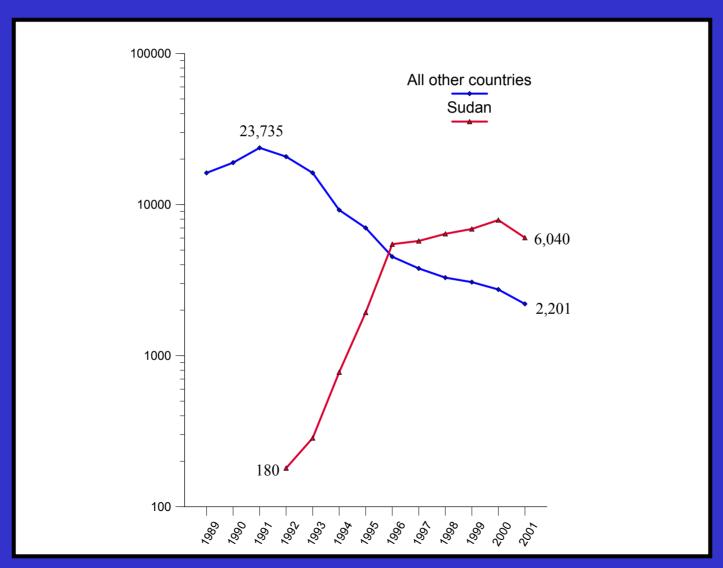
Interventions Against Dracunculiasis

- Village-based surveillance and monthly reporting of cases
- Case Containment
- Health education and community mobilization
 - Education of people about the origin of the disease
 - Empowering villagers to take action against the disease
 - Keeping persons with emergent worms from contaminating sources of drinking water
 - Use cloth filters to protect yourself and family for dracunculiasis
 - Vector control with Abate
 - Advocacy for provision / rehabilitation of sources of drinking water and monitoring progress

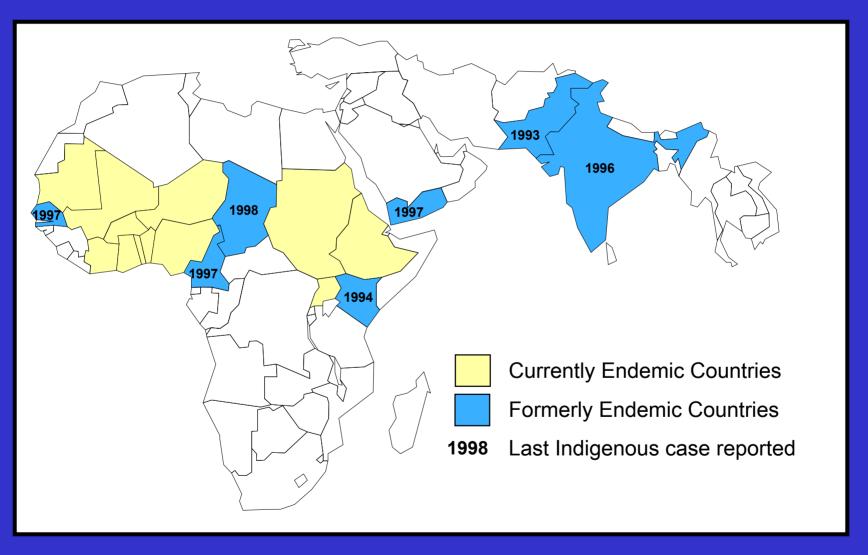
Number of Cases of Dracunculiasis: 1989 - 2001



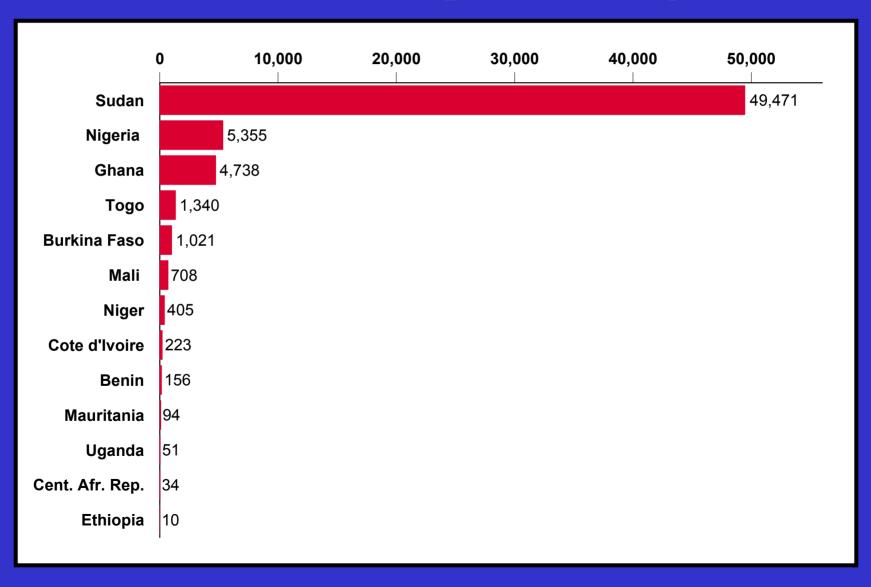
Number of Villages with Endemic Dracunculiasis: 1989 - 2001



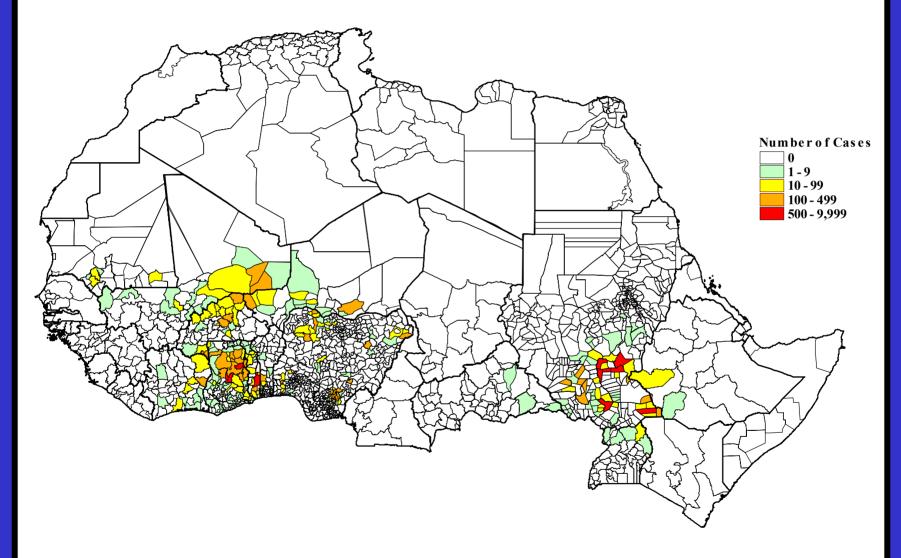
Dracunculiasis Eradication Campaign Status of Eradication Efforts: 2001



Distribution by Country of 63,606 Indigenous Cases of Dracunculiasis Reported during 2001



Distribution of 63,710 Cases of Dracunculiasis in 2001*



Coalition of Organizations and Agencies Supporting the Global Campaign to Eradicate Dracunculaisis

Lead	Org	gan	izati	ons
------	-----	-----	-------	-----

The Carter Center

Centers for Disease Control & Prevention

UN Organizations

UNICEF WHO

UNDP

The World Bank

Bilateral Donors

United States
Japan

Netherlands

Norway

United Arab Emirates

Saudi Arabia

Sweden

Canada

Finland

United Kingdom

Denmark

Spain

Industry

E.I. DuPont de Nemours

Precision Fabrics Group

American Cyanamid BASF

Johnson & Johnson

Supporting Organizations

US Peace Corps

Keidanren

The Hilton Foundation

Health & Development International

The Bill and Melinda Gates Foundation

