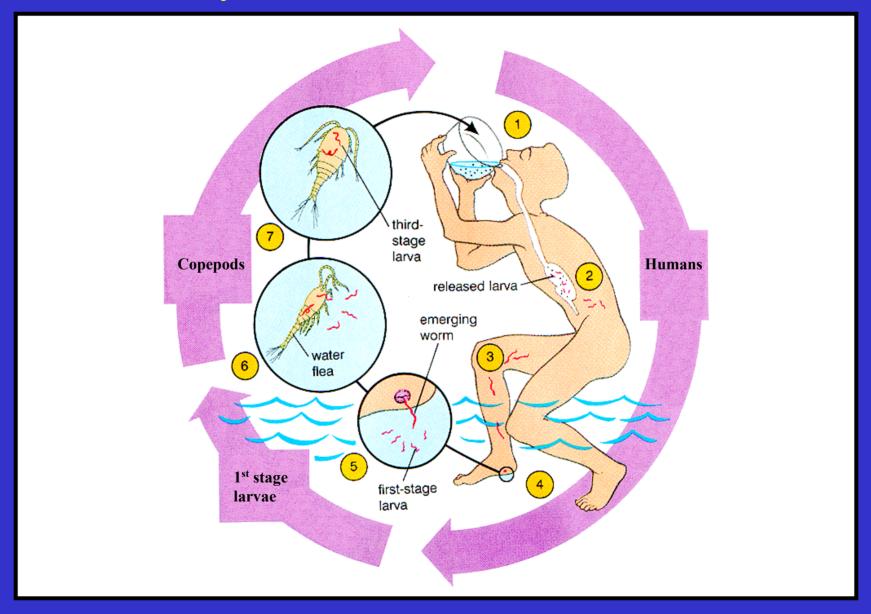
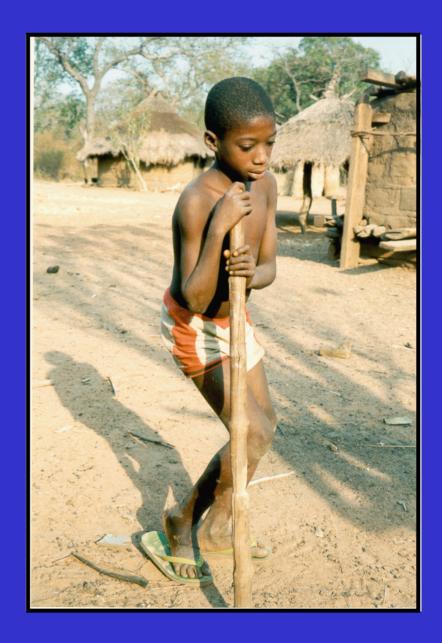
### Dracunculiasis Eradication

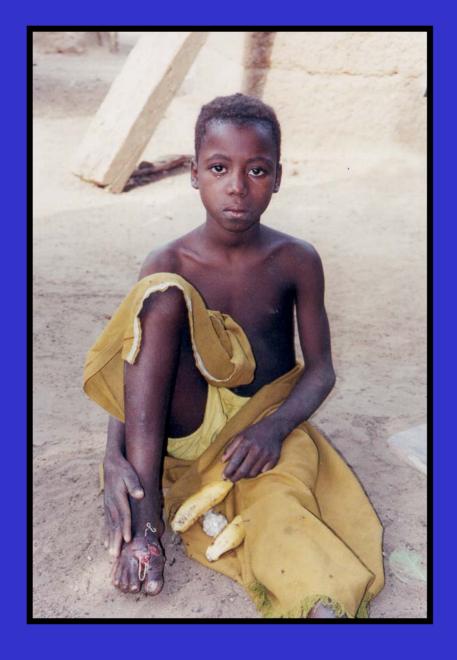
Ernesto Ruiz-Tiben, Ph.D.
Technical Director
Dracunculiasis Eradication
The Carter Center

#### 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

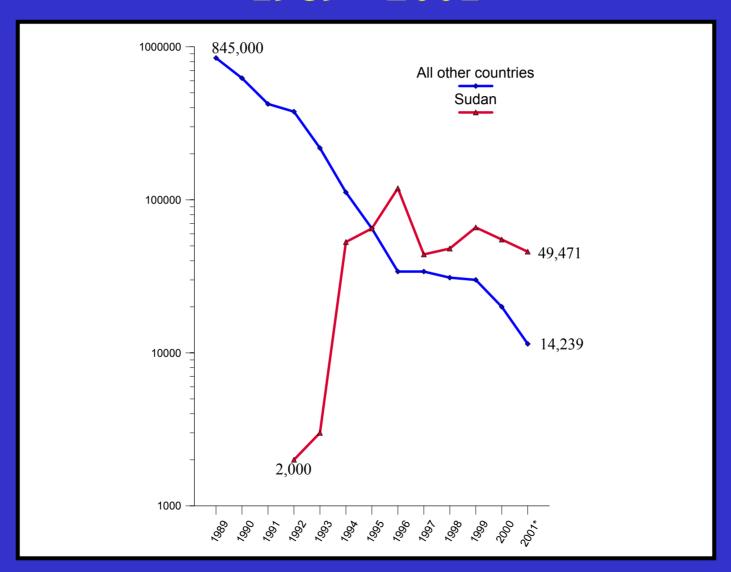
## Dracunculiasis Eradication Campaign Program Start-Ups

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	la 9
1993	Benin, Mauritania, Niger, Mali, Cote d'Iv	oire 14
1994	Sudan, Kenya, Chad, Ethiopia	18
1995	Yemen	19

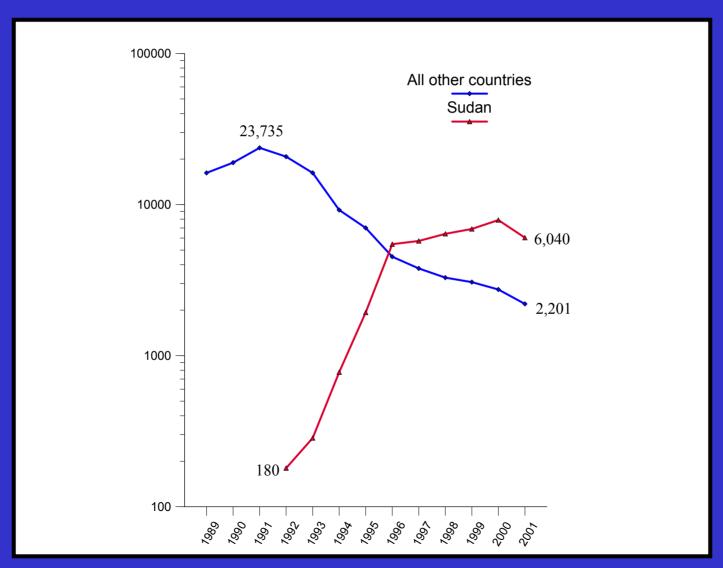
#### Interventions Against Dracunculiasis

- 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

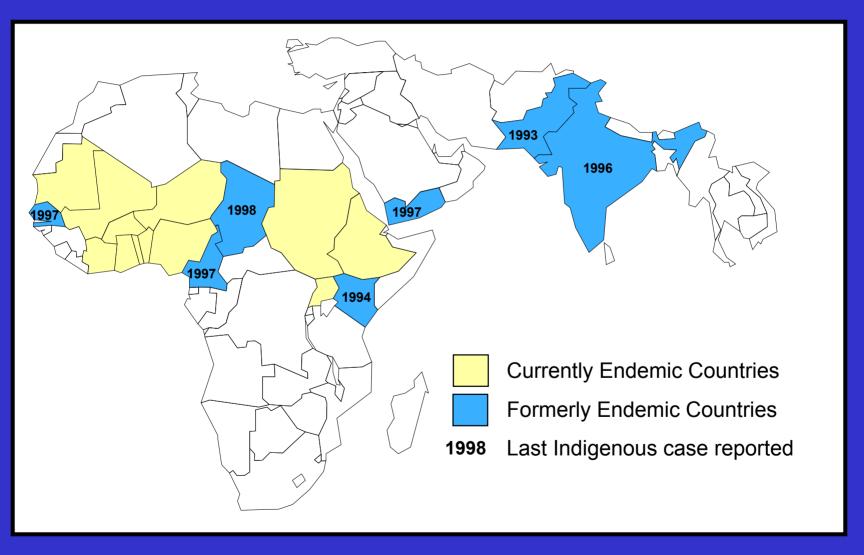
# Number of Cases of Dracunculiasis: 1989 - 2001



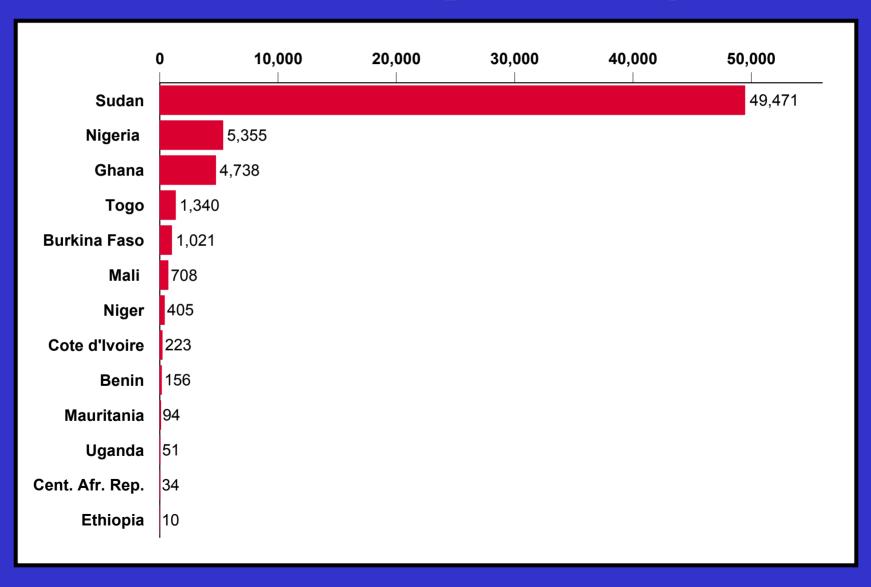
# Number of Villages with Endemic Dracunculiasis: 1989 - 2001



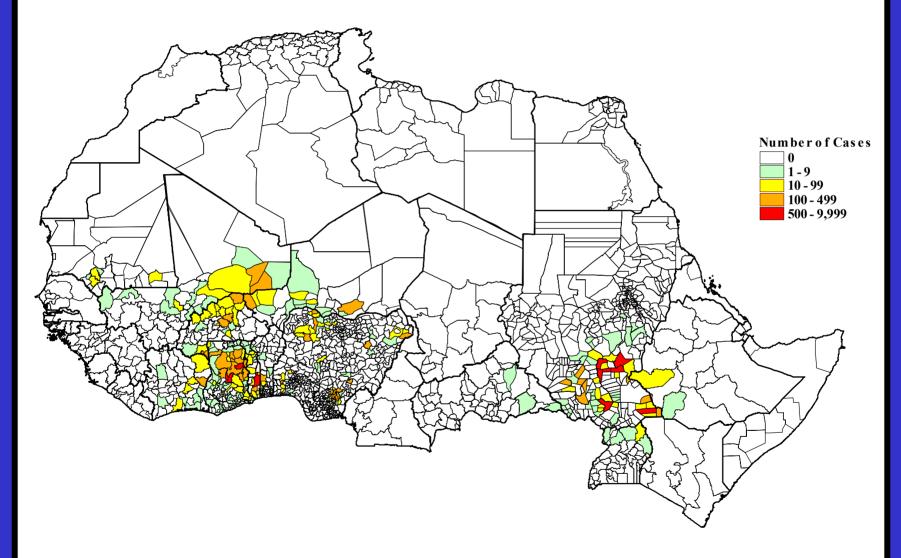
## Dracunculiasis Eradication Campaign Status of Eradication Efforts: 2001



## 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
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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

