

## Lymphatic Filariasis Characteristics and Life Cycle



PLAY PICMONIC

### Characteristics

#### Elephantiasis

##### [Elephant](#)

Lymphatic filariasis is also well known as elephantiasis. It is a condition in which the limbs and skin thicken, causing the affected area to appear large.

#### Nematode (Roundworm)

##### [Knee-toad with Roundworms](#)

Lymphatic filariasis is caused by roundworm parasites from the family Filarioidea. The nematodes can enter the body through female mosquito bites and cause elephantiasis are *Wuchereria bancrofti* and *Brugia malayi*.

### Etiology

#### *Brugia malayi*

##### [Brew-chia Malaysia](#)

*Brugia malayi* is a nematode that causes lymphatic filariasis.

#### *Wuchereria bancrofti*

##### [Witch Bankruptcy](#)

*Wuchereria bancrofti* is responsible for around 90% of lymphatic filariasis cases.

### Transmission

#### Female Mosquito

##### [Female-symbol Mosquito](#)

Lymphatic filariasis is transmitted by female mosquitoes.

### Life Cycle

#### Microfilariae Infect Mosquito

##### [Small-filer Infect Mosquito](#)

Microfilariae are ingested by mosquito during a blood meal. To contract lymphatic filariasis, an individual generally needs to be bitten by an infected mosquito, which introduces microfilariae into the bloodstream.

#### Mature into Larvae

##### [Worm](#)

The microfilariae develop into larvae that can infect a host when a mosquito carrying them bites a human.

### **Larvae Deposited on the Skin**

#### **Worm Inside the Skin**

Larvae are deposited on the host's skin after the infected mosquito bites the host.

### **Larvae Migrate to the Lymphatic Vessels**

#### **Worm Migrate to Lymph-limes**

Larvae migrate to the lymphatic vessels and then transform into adult worms.

### **Invade Lymph Nodes**

#### **Invading Lime-Nose**

Adult worms invade the lymph nodes and inhabit the lymphatic vessels and afferent lymphatics of the lymph nodes.

### **9 Months to 1 Year Incubation Period**

#### **Incubator (9) Lives-cat (1) Wand**

The incubation period of filariasis is around 9 months to 1 year. The adult filariasis worm can survive around 5-8 years, although sometimes, it can survive 15 years or more. People residing in tropical/sub-tropical areas with a high prevalence of lymphatic filariasis have a high risk of infection, while short-term tourists have a low risk.