

## Neglected Tropical diseases

### What is the issue?

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Around the world, nearly 1.6 billion people are affected by a group of diseases so ignored that the term used to refer to them is called neglected tropical diseases (NTDs).

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### What is the disease about?

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- These are a **cluster of 17 diseases** affecting the poorest people living in the least developed pockets.

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- While some of these diseases may be unfamiliar, leprosy, kala-azar and filariasis are better known in India and being targeted for elimination.

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- **A disease is considered 'eliminated' when the prevalence rate is less than 1 case per 10,000 population size.**

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- The Indian government has set itself the target of eliminating kala-azar and filariasis by 2017, and leprosy by 2018.

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### What is government doing towards leprosy eradication?

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- ICMR has produced two rapid diagnostic tests and a uniform multidrug regimen for all types of leprosy.

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- This has shortened treatment duration to 6 months.

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- An indigenous vaccine developed by the National Institute of Immunology, launched for the leprosy control programme.

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- The vaccine, mycobacterium indicus pranii (MIP), will be administered to people living in close contact with patients.
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- The vaccine offers 60% protection to people living with leprosy patients for up to 4-5 years.
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- This renewed strategy aims for leprosy elimination ahead of the 150th birth anniversary of Mahatma Gandhi, in 2019.
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- To eliminate leprosy, India needs to **tackle the stigma** associated with the disease.
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- It leads to delays in diagnosis and treatment, which in turn result in continued transmission of infection within families and communities.
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- In 2015-16, 118 districts in India were endemic for leprosy with a prevalence rate of more than 1 per 10,000.
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### **How is the government tackling filariasis?**

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- In the case of lymphatic filariasis, better known as elephantiasis, the government is targeting a population of 600 million in 256 endemic districts with mass drug administration (MDA).
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- A community-based pilot in Yadgir district of Karnataka is being done to assess the effectiveness of a three-drug combination vis-à-vis the existing two-drug regime.
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- Mass administration of DEC-fortified salt to accelerate elimination of lymphatic filariasis is being tried in the Andamans.
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- Ensuring that the entire target population accepts MDA needs advocacy and community engagement.
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### **How is Kala-azar managed by the government?**

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- The other key intervention is for visceral leishmaniasis (VL) or kala-azar, which is transmitted through the bite of the female sandfly.
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- In India, a majority of cases are reported in Bihar, Jharkhand, Uttar Pradesh and West Bengal.
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- Rapid diagnostic tests followed by single day treatment now makes rapid cure possible.
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- Sandflies breed on mud walls, so vector control by indoor spraying with insecticides and ultimately with improved housing can result in their control.
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### **What could be done?**

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- **Continued surveillance** and epidemiologic data collection is necessary to ensure that the disease continues to be under control.
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- Besides basic research, the discovery of new facts about a disease, vaccines and drugs along with new strategies and sustained research are needed to make an impact.
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- **Partnerships with diverse stakeholders** are useful in creating awareness, improving case detection, treatment completion and, most importantly, managing stigma.
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- Timely diagnosis and treatment access in unreached areas, focussing on the fundamentals of preventive interventions, nutrition, safe drinking water, sanitation and hygiene are essential in fast-tracking the goal of elimination.
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**Source: The Hindu**

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