

# **Scrub Typhus Infections**

### Why in News?

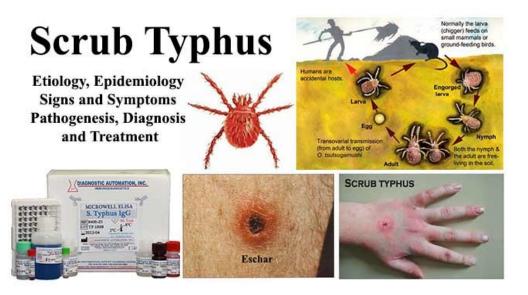
A study by Christian Medical College (CMC) Vellore & London School of Hygiene & Tropical Medicine (LSHTM) highlights the high risk of scrub typhus infections in rural Tamil Nadu.

## Key Findings of the Study

- Study Area Rural areas of Tamil Nadu.
- Sample Size 32,000 individuals.
- **Incidence Rate** Nearly 10% of the population was infected annually over a 2-year study period.
- Severity of Cases 8%-15% of infected individuals developed fever requiring hospitalization.
- Scrub typhus accounted for 30% of fever-related hospitalizations, making it the second most common cause after COVID-19.
- Five deaths recorded due to severe complications.

# **Scrub Typhus**

- It is a severe infection caused by *Orientia tsutsugamushi* (a rickettsial bacterium).
- Vector Infected larval mites (chigger).
- **Mode of Transmission** Humans get infected through the *bite of infected chiggers* (mite larvae).
- The bacteria *enter the bloodstream*, causing systemic infection.



• **Symptoms** - Fever (develops about 10 days after infection), Headache and body aches, Rash, Eschar (black sore at the site of the chigger bite) – a crucial diagnostic

sign.

- **Complications Acute Respiratory Distress Syndrome (ARDS)** severe lung infection.
- Meningitis Inflammation of brain membranes.
- Multi-organ failure Kidney, liver, and heart damage.
- **Septic Shock** Life-threatening blood infection.
- **Death** In severe cases if not treated properly.
- Treatment Antibiotics Doxycycline and Azithromycin are effective.
- Early treatment reduces complications and mortality.
- **Prevention** <u>No vaccine</u> currently available.
- Avoid exposure to mite-infested areas (dense vegetation, bushes).
- Wear protective clothing and use insect repellents.

### References

- 1. DD News | Scrub Typhus Infections
- 2. <u>CDC | Scrub Typhus</u>

