

## “ESCHAR” – A Diagnostic Clue to Scrub Typhus

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Scrub typhus is mite borne acute febrile illness caused by *Orientia tsutsugamushi*.

Scrub typhus is a reemerging rickettsial disease reported from several parts of India and neighboring countries during the past one decade. The clinical signs and symptoms are largely nonspecific and if not promptly diagnosed and treated carry a high mortality<sup>1</sup>. The infection is transmitted through the bite of the trombiculid mite which may be seen as ‘Eschar’ which may be 5 to 20 mm in diameter and is considered as an important clue to the diagnosis of scrub typhus in a patient presenting with fever, head ache and regional lymphadenopathy. A typical eschar starts as a papule at the site of the bite followed by a blistered ulcer and this is then covered with a black crust. The border of the crust is surrounded by reddish erythema. A typical eschar is formed at the time when symptoms are manifest<sup>2</sup>.

Eschar can be used for detection and genetic characterization of *O.tsutsugamushi* during the convalescent phase<sup>3</sup>. Immunohistochemical staining of skin biopsy specimens from the eschars, is sensitive and specific for diagnosis of scrub typhus<sup>4</sup>.



**Eschar - over the left breast**

**Eschar over the right lower eye lid**



**Eschar over the left groin**

**Eschar over the elbow**

### REFERENCES

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