

## Case Report

# Treatment of 20 Years Old Female with Tick-Borne Relapsing Fever (TBRF) from Village Kanheri, Tehsil Baramati, District Pune, Maharashtra, India

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Tick-Borne Relapsing Fever (TBRF) is an illness caused by *Borrelia burgdorferi* [1]. It causes health concerns. It leads to a decline in white blood cell count, affecting the immune response [2]. In this case report, the medical success of treating the disease under study has been communicated.

A 20 years old female living at village Kanheri, tehsil Baramati, district Pune, Maharashtra, India was reported with the high fever, severe headache, muscle and joint pain, vomiting, weakness and round patches on the skin (figure 1a, figure 1b) on 12 May 2020.

This infection negatively affected her overall health and weight. Upon noticing these symptoms, her mother admitted her to a local hospital at village Bhavninagar, 5 km away from the residential place of the patient. The doctors conducted blood tests and diagnostic procedures and confirmed the infection by *Borrelia burgdorferi* leading to Tick-Borne Relapsing Fever.

The patient received antibiotic treatment, including low-dose Imidocarb (1 mg/kg) in combination with Oxytetracycline on 14 May 2020. Her symptoms

gradually reduced and the patches on the skin got eliminated (figure 2). She was discharged from the hospital in healthy condition on 18 May 2020.

Early diagnosis and prompt antibiotic treatment are crucial in managing the disease under study effectively ensuring complete recovery.



**Figure 1a:** The circular patch on the skin as a part of the tick-borne disease.



**Figure 1b:** The circular patch on the skin as a part of the tick-borne disease.



**Figure 2:** The skin of the patient after treatment of the tick-borne disease showing no symptoms.

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