



## Have you experienced these symptoms?

### Early Signs and Symptoms (3 to 30 days after tick bite)

- Fever, chills, headache, fatigue, muscle and joint aches
- Swollen lymph nodes
- Erythema migrans (EM) rash:
  - Occurs in approximately 70 to 80 percent of infected persons
  - Begins at the site of a tick bite after a delay of three to 30 days (average is about seven days)
  - Expands gradually over a period of days reaching up to 12 inches or more (30 cm) across.
  - May feel warm to the touch but is rarely itchy or painful.
  - Sometimes clears as it enlarges, resulting in a target or “bull’s eye” appearance
  - May appear on any area of the body

### Later Signs and Symptoms (Days to months after tick bite)

- Severe headaches and neck stiffness
- Additional EM rashes on other areas of the body
- Arthritis with severe joint pain and swelling, particularly the knees and other large joints
- Facial or Bell’s palsy (loss of muscle tone or droop on one or both sides of the face)
- Intermittent pain in tendons, muscles, joints, and bones.
- Heart palpitations or an irregular heartbeat (Lyme carditis).
- Episodes of dizziness or shortness of breath.
- Inflammation of the brain and spinal cord.
- Nerve pain.
- Shooting pains, numbness, or tingling in the hands or feet.
- Problems with short-term memory

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