

Insights on Patient-Driven Innovation

The LymeX Roundtable: Bridging the Trust Gap explored existing tools and needed innovations across various key areas for Lyme disease. It identified several ideas to explore further in the upcoming LymeX Education & Awareness Healthathon.

User-Centered Approaches, Resources, & Examples

Tick-Focused Innovation



Currently Exists

- [MilTICK](#): free tick testing service for DoD personnel and families
- [CAPCVET.org](#): organization that monitors threats by parasites to pets and owners
- [CDC's Tick Tracker and Surveillance Site](#): provides prevention, treatment, and tick location resources
- Pilot tool using AI to ID "bull's-eye" rash
- Other apps like [TickTracker](#), [TickCheck](#), [Tick ID](#), [the Tick App](#)

Needs Development

- Better surveillance and mapping of the spread of Tick-Borne Diseases in non-endemic regions
- More robust artificial intelligence (AI)/machine learning resources to detect symptoms, and identify potential tick patients, tick types, infection risk, and more

Patient Data Gathering



- [Oura Ring](#) and other data collection tools
- Tick and symptom-tracking apps
- [MyLymeData](#): patient-driven repository of experience, symptoms, treatment, and results data

- Strategies to lower cost or provide access to these technologies to under-resourced communities

Caregiver & Patient Support



- Chatbots for education and mental health support
- [Stanford Health Innovation Lab](#): leader in precision health innovation
- [My Pain Diary](#)
- Support group resources from [LymeDisease.org](#), [The Lyme Tree](#), et al.

- A national education program for use by small and under-resourced communities
- Information targeted to non-English speakers and minority communities

Clinical Resources



- New testing technologies and approaches (e.g., screening for a wider variety of tick-borne diseases)
- Invisible International's Continuing Medical Education [platform](#)
- [CDC Tick-Borne Diseases app](#)

- Additional Continuing Medical Education courses on topics like Congenital Lyme, Lyme in pregnancy, pediatric Lyme, neurology, immunology, psychiatry, and psychotherapy
- Interim guidelines for Lyme in pregnancy
- Direct marketing to clinicians and healthcare providers on diagnosis, treatment, and testing

DISCLAIMER: Readers should not consider this document or any part of it to be guidance or instruction regarding the diagnosis, care, or treatment of tick-borne diseases or to supersede in any way existing guidance.

Questions? Email LymeInnovation@hhs.gov