

LymeX Health+ Human-Centered Design Report Response



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Lyme Disease Patient

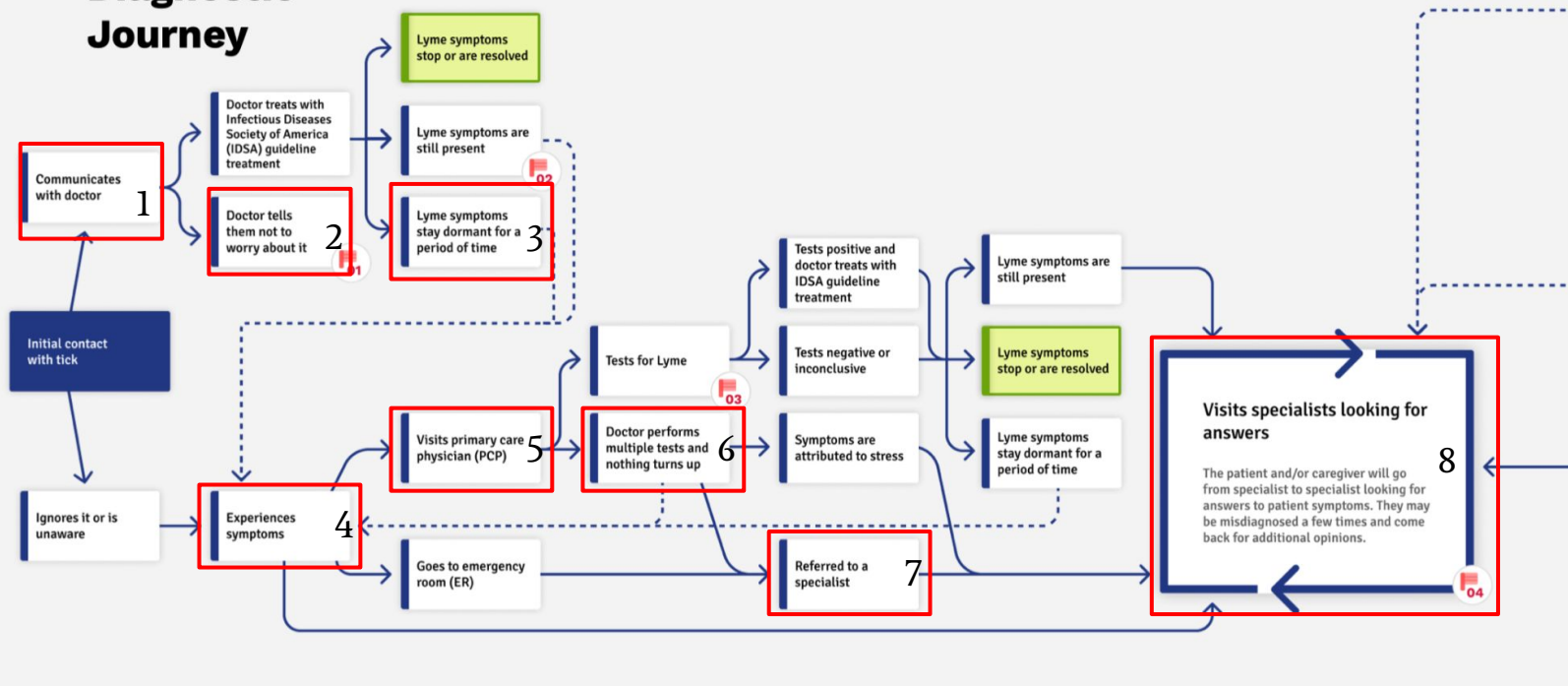


"Lyme disease, the most rapidly spreading vector-borne disease in the country, is the AIDS of our time: Patients with persisting Lyme disease often are dismissed by doctors without help, publicly ridiculed and otherwise diminished in news media, and many develop a mysterious, progressively debilitating illness that federal public health agencies have shown little interest in researching. Many patients go bankrupt trying to piece together help for their conditions before they become disabled, and too many end their own lives in desperation Patients of no other disease since AIDS have suffered publicly sanctioned derision for seeking help for their serious medical conditions."

—David Michael Conner, Journalist and Health Writer

Lyme Patient Journey Maps

Diagnostic Journey



Pain Points

01

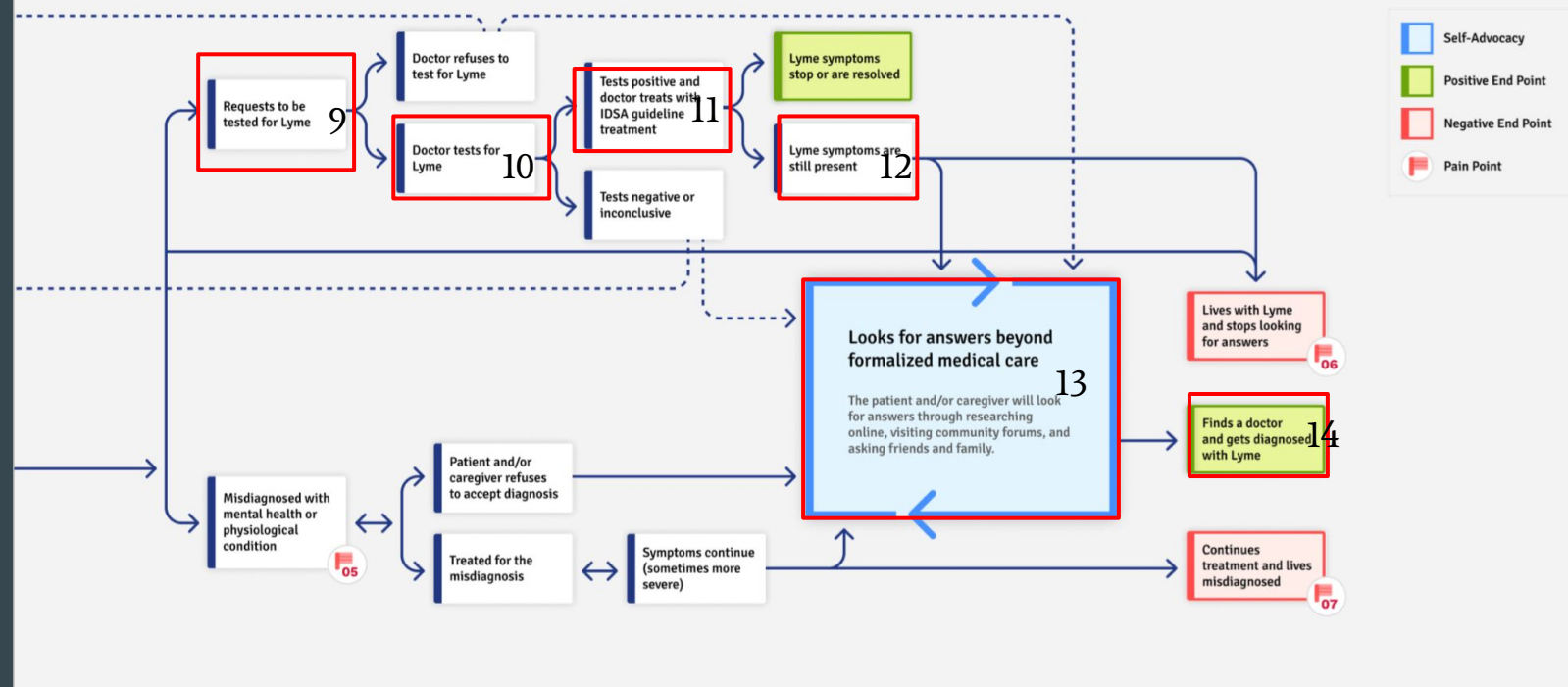
Allows the infection to have more time in the body, leading to more severe symptoms

02

Usually no follow up after treatment, leaving the patient without guidance or further medical help

03

Usually doctor will know to test if the patient remembers contact with tick, has a "bull's-eye" rash, or lives in an endemic area

**04**

This moment can be overwhelming and financially devastating, sometimes lasting for years without answers

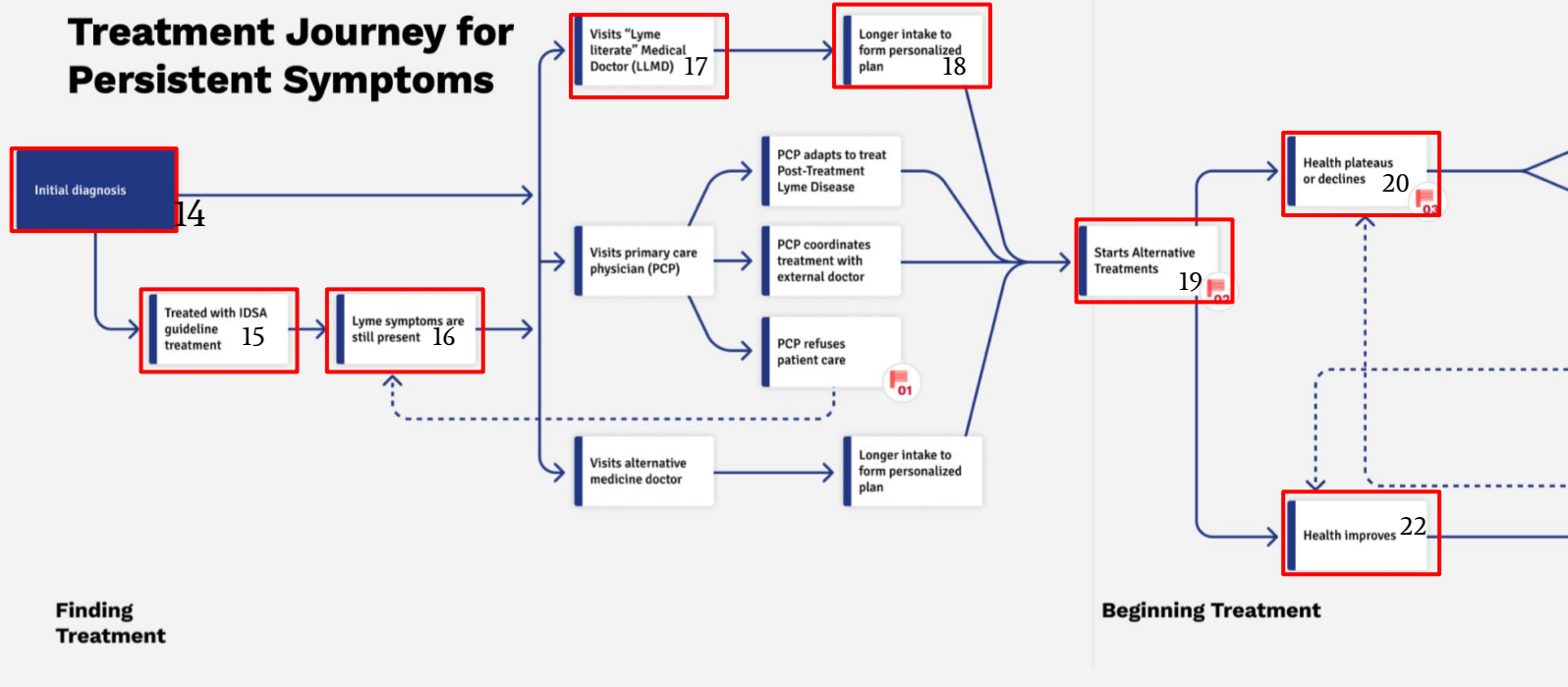
05

This could lead to the patient being given unnecessary medications and surgeries that could cause financial and physical consequences

06 & 07

Symptoms may become more severe and lead to other health complications

Treatment Journey for Persistent Symptoms



Pain Points

01

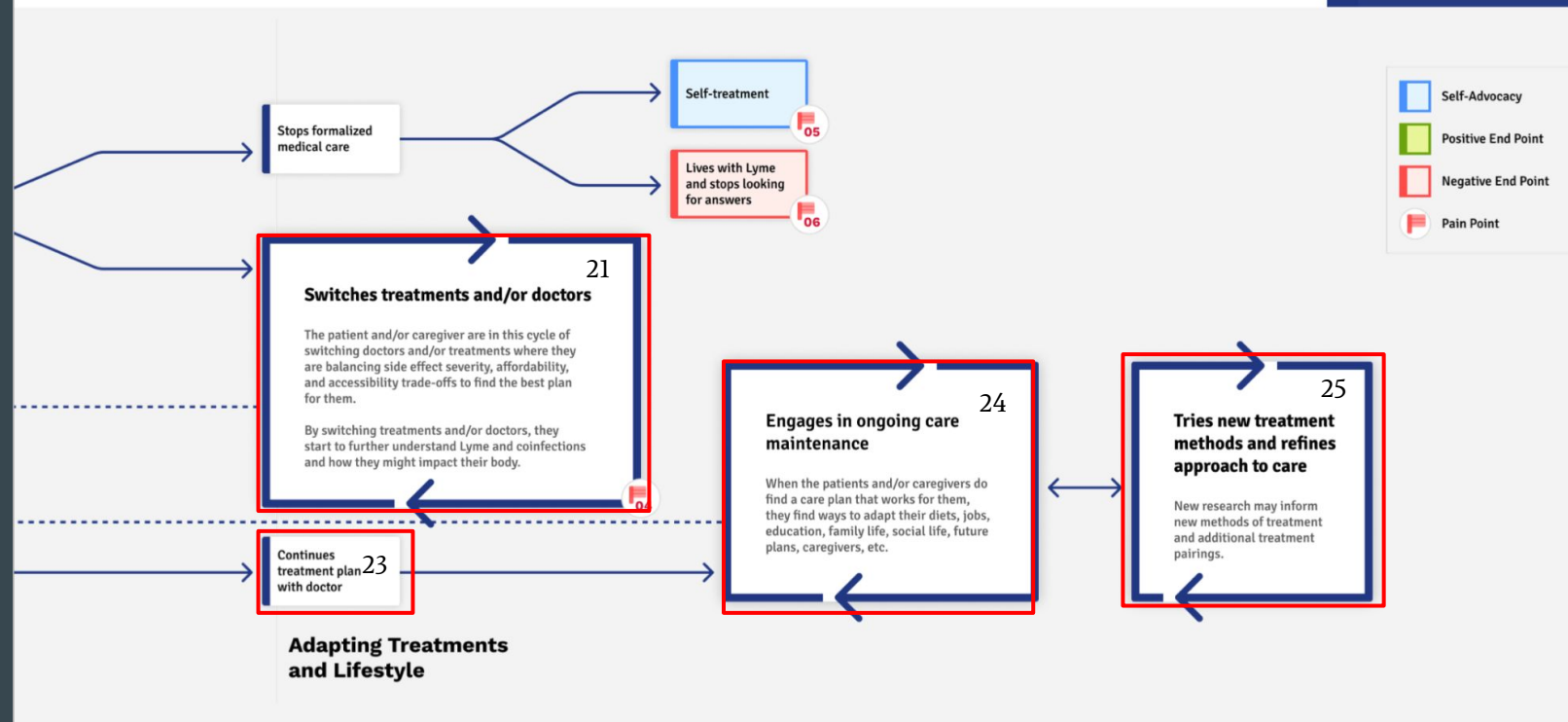
Leaves the patient without proper care and still experiencing symptoms

02

Insurance usually drops off at this point, and medical costs start to build up

03

Work and/or employment can be severely impacted at this point

**04**

Can be financially devastating and have lasting, damaging impact on health

05

Without medical guidance, this could lead to damaging and costly consequences

06

This infection could further harm the body, leading to worse symptoms

Recommendations

01

Broader Awareness of Lyme Disease

- Generate greater public awareness and bolster prevention
- Improve medical awareness of and fluency in Lyme approaches across specializations

03

Cohesive and Comprehensive Care Coordination

- Create seamless coordination between healthcare providers and patients/caregivers
- Provide adequate support and resources to healthcare providers treating Lyme
- Break down medical silos that cause financial burden for patients and caregivers
- Protect patients from abuse and discrimination

02

An Accelerated Diagnostic Process

- Build awareness around symptoms outside of the "bull's-eye" rash to motivate Lyme testing and diagnosis
- Resolve conflicting medical advice around diagnosis and streamline information across provider network
- Empower patients and caregivers to better navigate the process with knowledge and tools

04

Holistic Life and Care Management

- Help patients plan for their future
- Support patients navigating bureaucratic challenges
- Create a long-term support system for patients and caregivers managing persistent Lyme

Recommendations

01

Create a mentorship program for Lyme navigators, Lyme community leaders, and experts who are willing and interested in sharing their experience and research to help individuals navigate the journey.

02

Develop a platform that provides preemptive notifications which offer proactive check-ins, HCP communication, progress updates, and insight into the diagnostic process. Urgent health signals trigger nudges to the HCPs (e.g., call patients, auto-save an appointment time to be confirmed via text, etc.).

03

Create a digital library that saves patients' medical records, symptom journals, prescriptions, X-rays, lab results, and insurance forms in a centralized location and categorizes them by action required.

04

Provide a treatment path forward for patients when diagnosed with Lyme to equip them to manage information overload and next steps that need to be taken.

05

Develop an aligned and inclusive diagnostic testing protocol for Lyme covered by insurance.

06

Create an open-source community resource for vetted and supporting Lyme healthcare providers across physical, mental, neurological, and alternative treatment spaces.

07

Provide a Lyme code of rights that outlines patients' rights to freedom from discrimination, coercion, harassment, and exploitation.

Recommendations

01

Develop a guide and workbook (one for adults, one for adolescents) for planning a future with persistent Lyme symptoms, including recommendations on building a support network and utilizing resources.

02

Develop a hub for Lyme life planning that points to resources to support with education, employment, and social life management.

03

Fund, develop, and launch a targeted ad campaign that points the Lyme community to future planning resources that exist.

04

Provide counselors and coaches that understand persistent conditions and can help patients/caregivers plan around them.

05

Provide financial support and guidance to patients paying out of pocket for treatment, hindering their ability to create savings and retirement.

06

Create a peer-to-peer mentoring network where patients who have experienced the obstacles of Lyme can help guide newer and more severe patients.