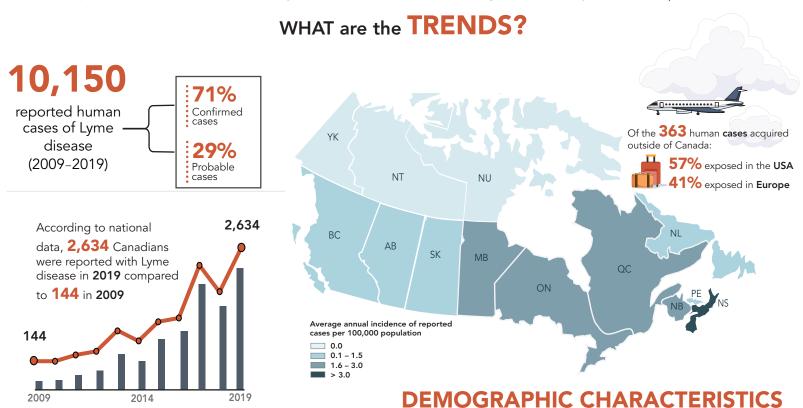
# Lyme Disease Surveillance in Canada Highlights 2009–2019

Data from the Canadian Notifiable Disease Surveillance System and the Lyme Disease Enhanced Surveillance System of the Public Health Agency of Canada

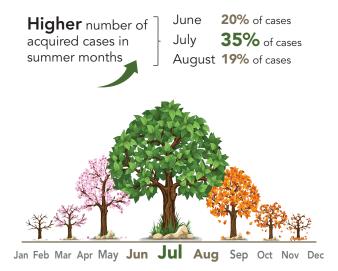
## WHAT is LYME DISEASE?

**LYME DISEASE** is the most reported tick-borne zoonoses in Canada. It is caused by the bacteria **Borrelia burgdorferi** and transmitted by western blacklegged ticks (*Ixodes pacificus*) in British Columbia and blacklegged ticks (*Ixodes scapularis*) in centra and eastern Canada.

It is a **multisystem infection** that can affect the **skin**, **heart**, **joints** and **nervous system**. Most people bitten by a *Borrelia burgdorferi-infected* tick will develop a skin rash (erythema migrans), which may be accompanied by flu-like symptoms. **If left untreated**, the bacteria can spread through the blood and cause multiple secondary skin lesions, cardiac symptoms (carditis, atrioventricular heart block, arrhythmia and palpitations) and neurologic symptoms (Bell's palsy and meningitis). **Months to years post-infection**, late disseminated Lyme disease can manifest with single or recurrent joint arthritis episode(s).

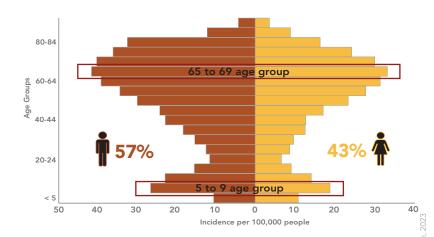


### **SEASONALITY**

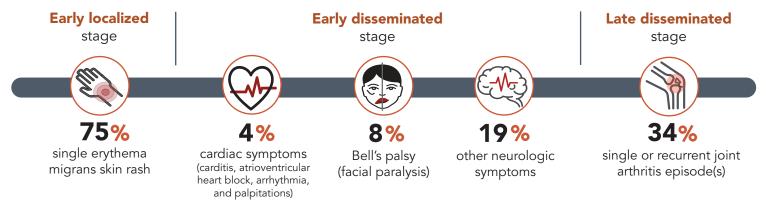


#### AGE GROUPS at HIGHER RISK:

- Incidences (cases per 100,000 population) were higher in children aged 5–9 years (45.0) and in adults aged 65–69 years (74.3)
- $\bullet$  57% of all reported cases occurred among adults aged 50–84 years



### WHAT are the REPORTED LYME DISEASE **SYMPTOMS** for LOCALLY-ACQUIRED CASES?



#### **RELATED LINKS:**

- 1. Surveillance for Lyme disease in Canada: 2009–2019
- 2. Visit <u>Canada.ca</u> for the Lyme disease case defintion
- 3. Visit Canada.ca for information about at-risk areas
- 4. Lyme disease web pages at <u>Canada.ca</u>
- 5. https://www.etick.ca/



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