Jamaica Plain, MA 02130

**Bureau of Infectious Disease and Laboratory Sciences**

Massachusetts State Public Health Laboratory

305 South St.

Jamaica Plain, MA 02130

***Borrelia miyamotoi* Surveillance in Massachusetts, 2014 -2018**

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| **2014 - 2018 Surveillance Highlights*** 136 confirmed and probable cases of *Borrelia* *miyamotoi* were reported between 2014 and 2018. Overall, 306 suspect cases of *Borrelia miyamotoi* were investigated.
* Middlesex County led the state with 31 confirmed or probable cases, followed by Plymouth County (28) and Barnstable County (16).
* The majority of cases occurred in June July, August and September, only 35% of cases reported awareness of a recent tick bite.
* The most commonly reported symptoms include: fever (91%), fatigue (87%), muscle aches/pain (85%), headache (82%), chills (82%), joint aches/pains (78%), and sweats (57%). There were no known fatalities.
* People age 50 years and older continue to be at greatest risk for clinical disease (57% of patients identified with *Borrelia* *miyamotoi* were 50 or older) and 51% of the cases were male.
* For more information about *Borrelia* *miyamotoi* and other tick-borne diseases, including steps you can take to keep you and your loved ones safe, please visit [www.mass.gov/dph/tick](http://www.mass.gov/dph/tick).
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| **County** | **2018 Cases****Confirmed and Probable** | **Frequency (%)** |
| Barnstable | 3 | 5% |
| Berkshire | 1 | 2% |
| Bristol | 9 | 15% |
| Dukes | 0 | 0% |
| Essex | 2 | 3% |
| Franklin | 0 | 0% |
| Hampden | 1 | 2% |
| Hampshire | 1 | 2% |
| Middlesex | 17 | 28% |
| Nantucket | 0 | 0% |
| Norfolk | 8 | 13% |
| Plymouth | 9 | 15% |
| Suffolk | 6 | 10% |
| Worcester | 3 | 5% |
| **State Total** | **60** | **100%** |



**Map 1:** Number of confirmed and probable *Borrelia miyamotoi* cases by county of residence, Massachusetts, 2014-2018.

**Table 1:** *B. miyamotoi* case counts and proportions by county of residence, Massachusetts, 2018.

**Figure 1.**

Number of confirmed and probable *B. miyamotoi* cases by month of onset, Massachusetts, 2014 -2018



**Figure 2.**

Number of confirmed and probable cases of *B. miyamotoi* by age group, Massachusetts, 2014-2018

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 **Figure 3.** Number of confirmed and probable *B. miyamotoi* cases, by year, Massachusetts, 2014-2018

