



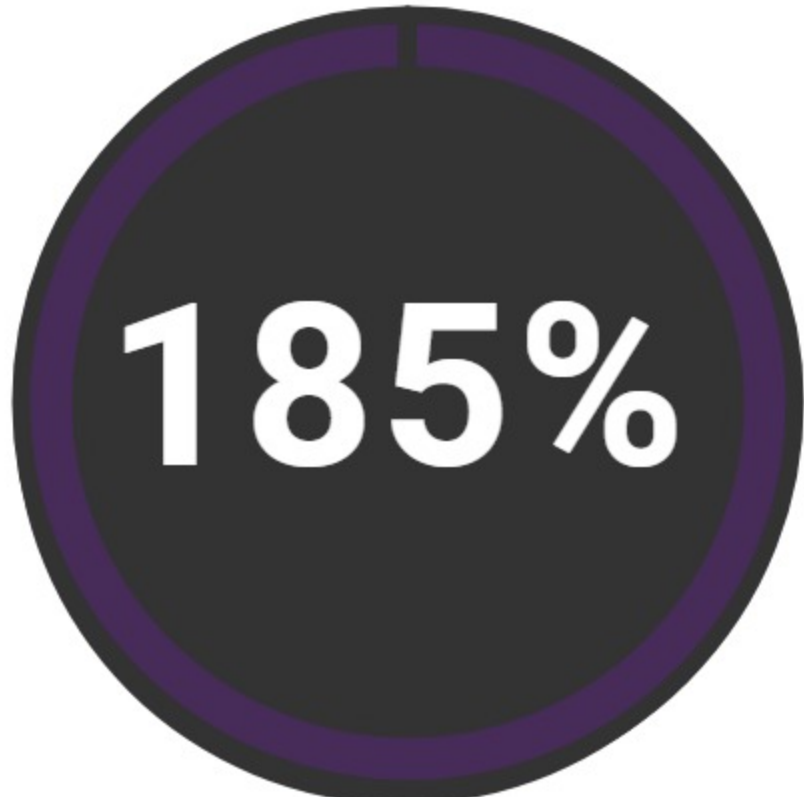
LYME DISEASE

A Growing Concern

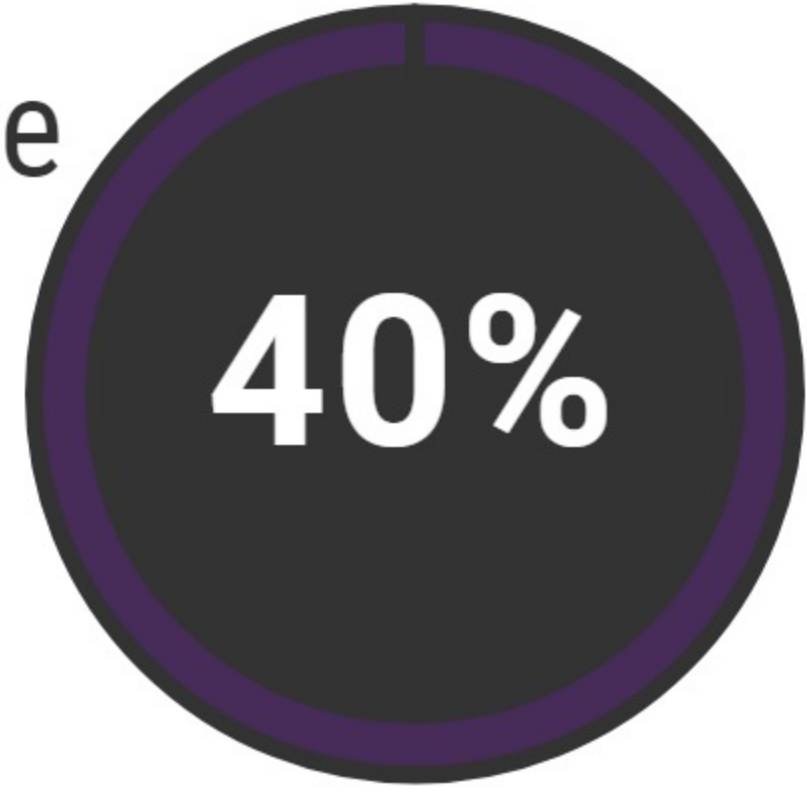
From 2007 to 2016 in the United States:



In **rural areas**, private insurance claim lines with a Lyme disease diagnosis increased

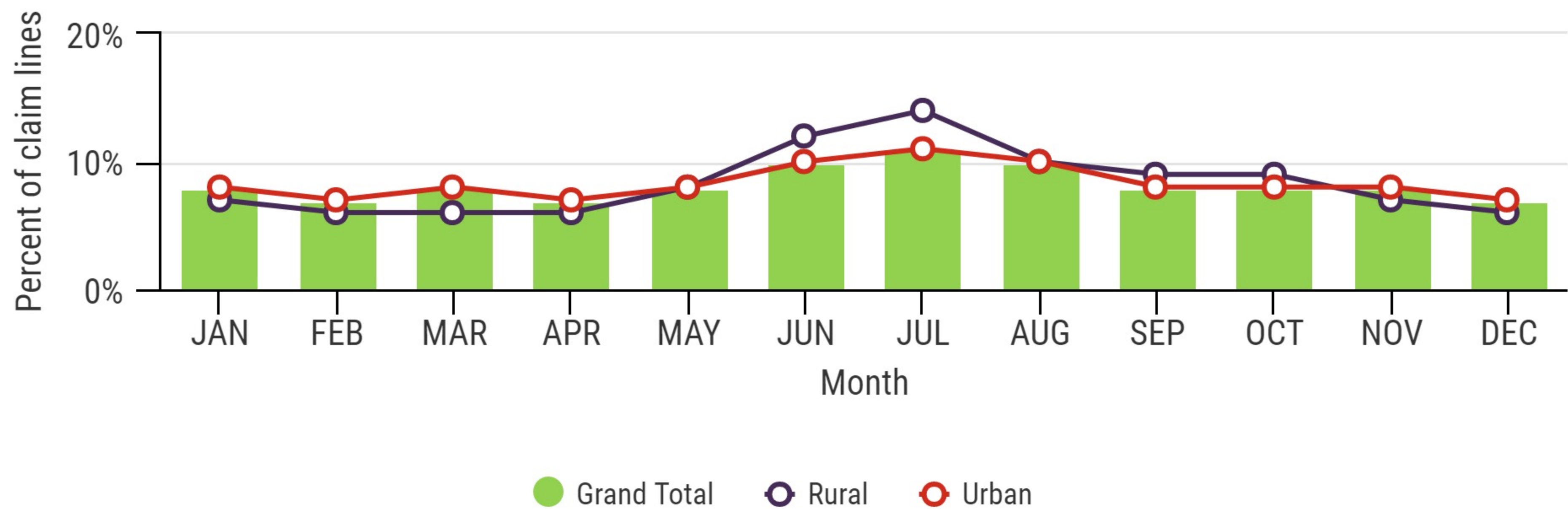


In **urban areas**, private insurance claim lines with a Lyme disease diagnosis increased



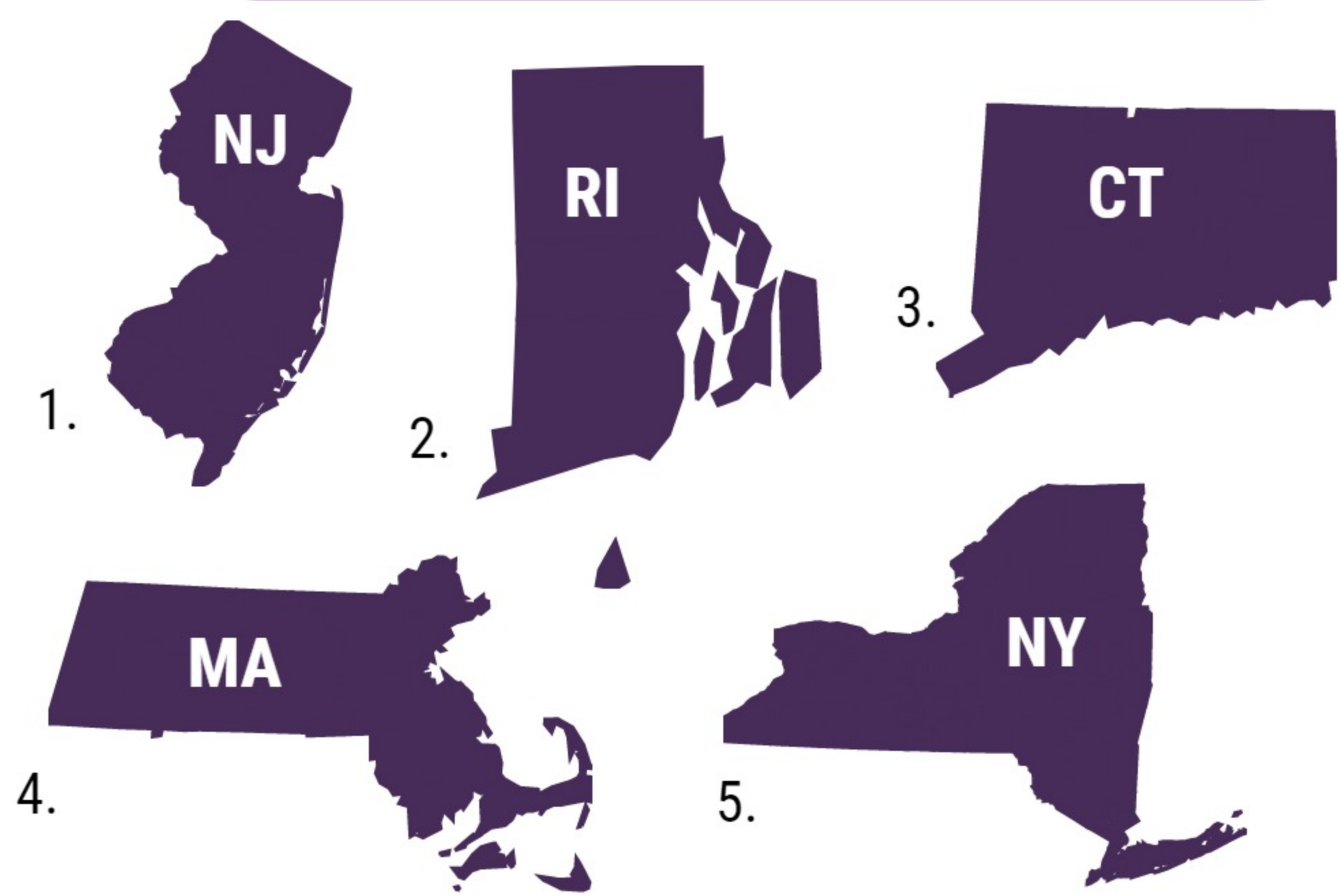
In **June and July**, claim lines with Lyme disease diagnoses were more common in **rural** than **urban** settings. But in the winter and early spring (**December-April**), claim lines with Lyme disease diagnoses occurred more often in **urban** than **rural** settings.

Claim Lines with Lyme Disease Diagnoses: Rural/Urban Percentage by Month, 2007-2016

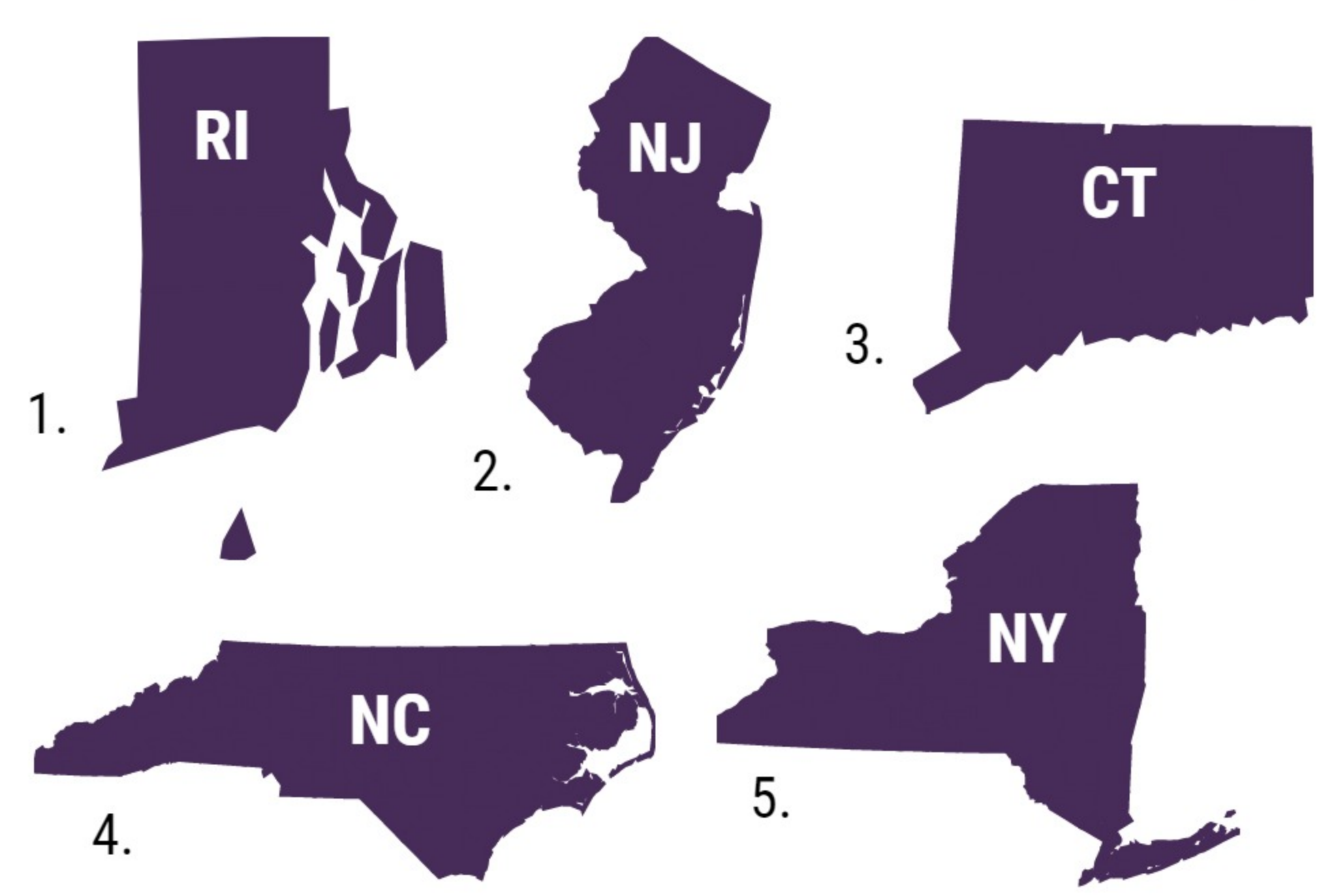


"Percent of claim lines" is the percent of all claim lines associated with a given diagnosis (e.g., Lyme disease) in a given time period (e.g., 2007-2016).

Top Lyme Disease States* in 2007



Top Lyme Disease States* in 2016

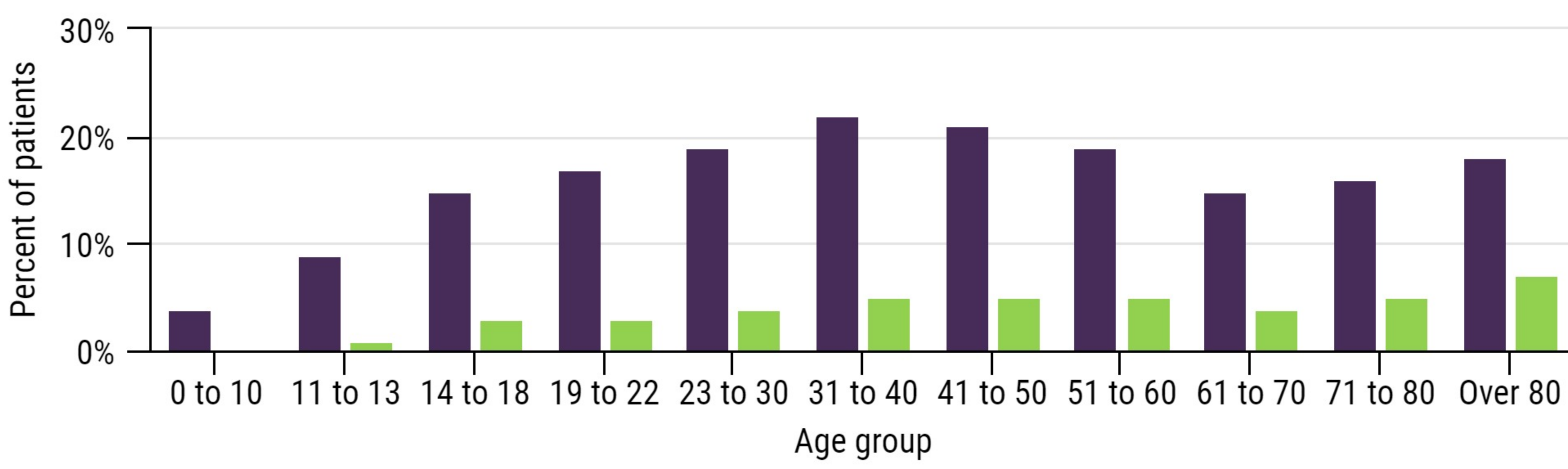


* States in which diagnoses of Lyme disease as a percentage of all diagnoses in the state were higher than in all other states. From left to right, states are in order from highest to lowest.

Lyme Disease and Later Diagnoses

In a longitudinal study of private insurance claims from a statistically significant cohort of individuals from 2013 to 2017, patients with Lyme disease ("Lyme patients") were compared to the overall cohort ("All patients").

Percent of Patients by Age Group with Chronic or General Fatigue in Lyme Disease Population Compared to Total Population, 2013-2017



Percent of Patients by Age Group with Soft-Tissue-Related Diagnoses in Lyme Disease Population Compared to Total Population, 2013-2017

