





Hepatitis A Surveillance 2013-2017

Rhode Island Department of Health

Division of Preparedness, Response, Infectious
Disease and Emergency Medical Services

Center for Acute Infectious Disease Epidemiology



About Hepatitis A

- Hepatitis A is an acute contagious liver disease that results from infection with the Hepatitis A Virus. It can range in severity from a mild illness lasting a few weeks to a severe illness lasting several months.
- Symptoms include fever, fatigue, nausea, vomiting, abdominal pain, dark urine, joint pain, jaundice, and elevated liver function tests. Symptoms can last for several months.
- Hepatitis A is transmitted via the fecal-oral route. It is usually spread when the virus is taken in by mouth from contact with objects, food, or drinks contaminated by the feces of an infected person.
- High risk groups include travelers to endemic countries, men who have sex with men, individuals who use drugs, individuals with clotting-factor disorders, and household or sexual contacts of people with Hepatitis A infection.
- Hepatitis A is a vaccine-preventable disease. Vaccination is recommended for all children, travelers to certain countries, and people at high risk of infection.

Data Overview

Hepatitis A



- Hepatitis A is not common in RI. There were 6 cases of Hepatitis A reported in 2017, and a total of 26 reported cases in the last 5 years (2013-2017).
- Due to these small numbers, data from the last 5 years have been combined to present a 5-year cumulative incidence rate of Hepatitis A in RI.
- One RI case in 2017 may have been associated with the large outbreak that occurred in San Diego, California.
- Hepatitis A has decreased significantly in RI and in the United States over the last several decades. There were 26 cases between 2013-2017. In 2006-2010, there were a total of 60 reported cases in RI, while in 2001-2005, there were 169 reported cases in RI.
- The 5-year incidence rate for 2013-2017 was 2.5 cases of Hepatitis A per 100,000 population.
- Individuals 70-79 years of age had the highest rate of Hepatitis A infection during the five year period.
- The 5-year rates of Hepatitis A infection in males and females from 2013-2017 demonstrate little difference by sex.

Reported Cases of Hepatitis A, Rhode Island, 2013-2017

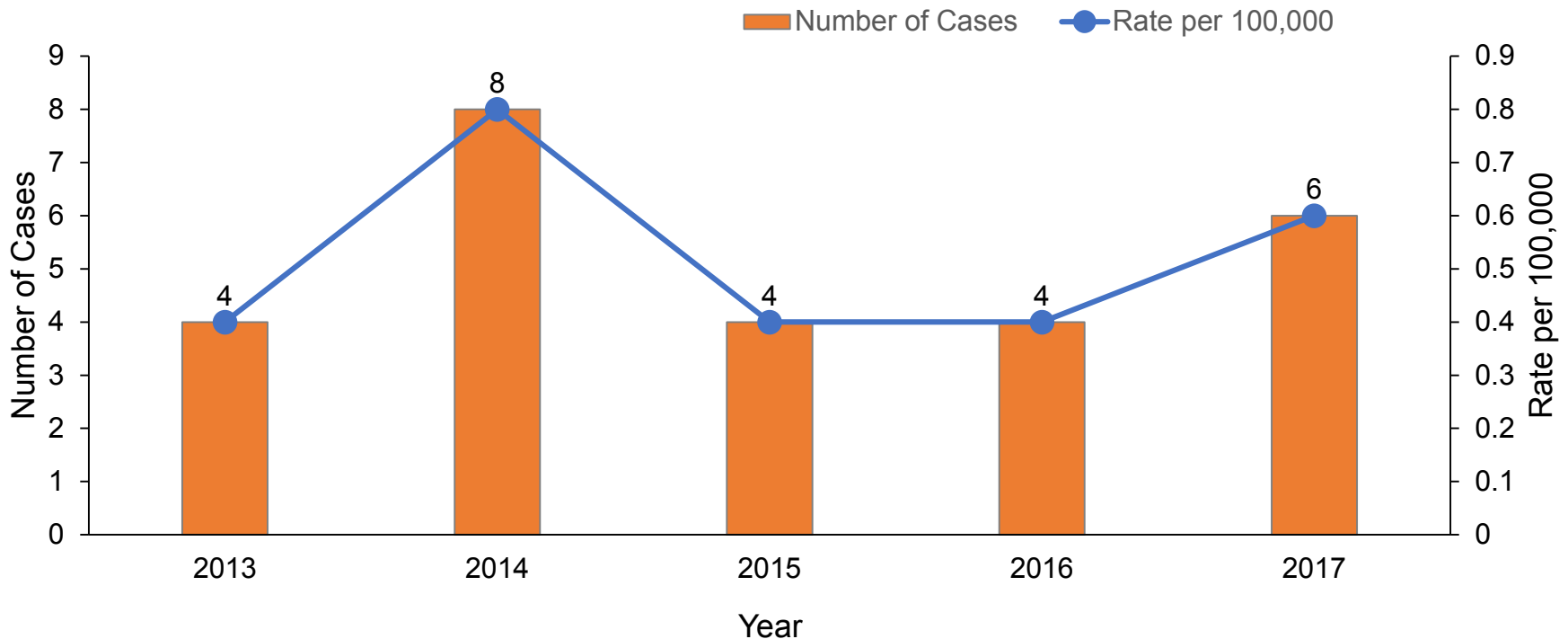


Figure 1: Hepatitis A is not common in RI. There were 6 cases of Hepatitis A reported in 2017, and a total of 26 reported cases in the last 5 years. The 5-year cumulative incidence rate for 2013-2017 was 2.5 cases of Hepatitis A per 100,000 population. Hepatitis A has decreased significantly in RI and in the United States in the last 15 years. In 2006-2010, there were a total of 60 reported cases in RI, while in 2001-2005, there were 169 reported cases in RI.

5-Year Rate of Hepatitis A, Age Group, Rhode Island, 2013-2017

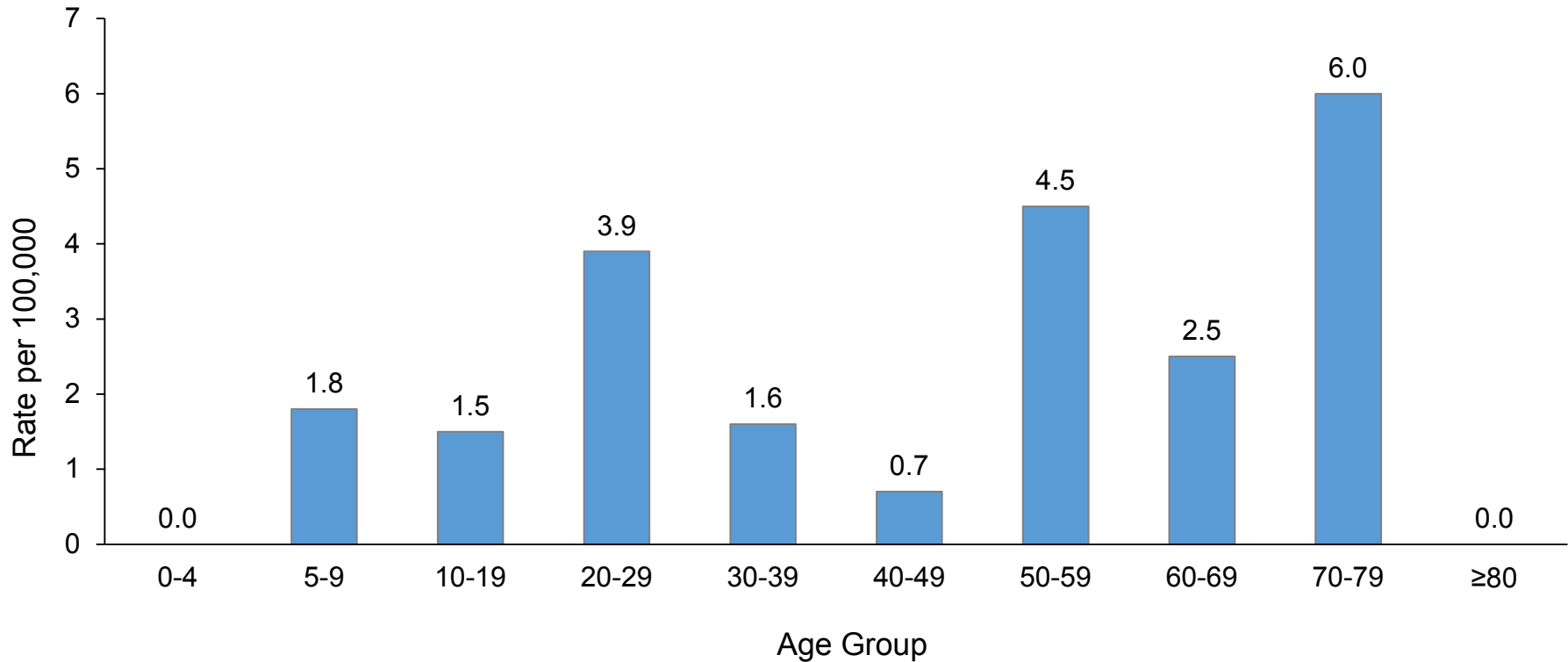


Figure 2: This graph shows the 5-year incidence rates of Hepatitis A during the period of 2013-2017 by age group. Over the last 5 years, people 70-79 years of age had the highest incidence rate of Hepatitis A (6 cases per 100,000 population). RI's rates differ from the national trend in which the 20-29 age group has the highest rate of cases (0.6 cases per 100,000 population in 2015).

5-Year Rate of Hepatitis A by Sex, Rhode Island, 2013-2017

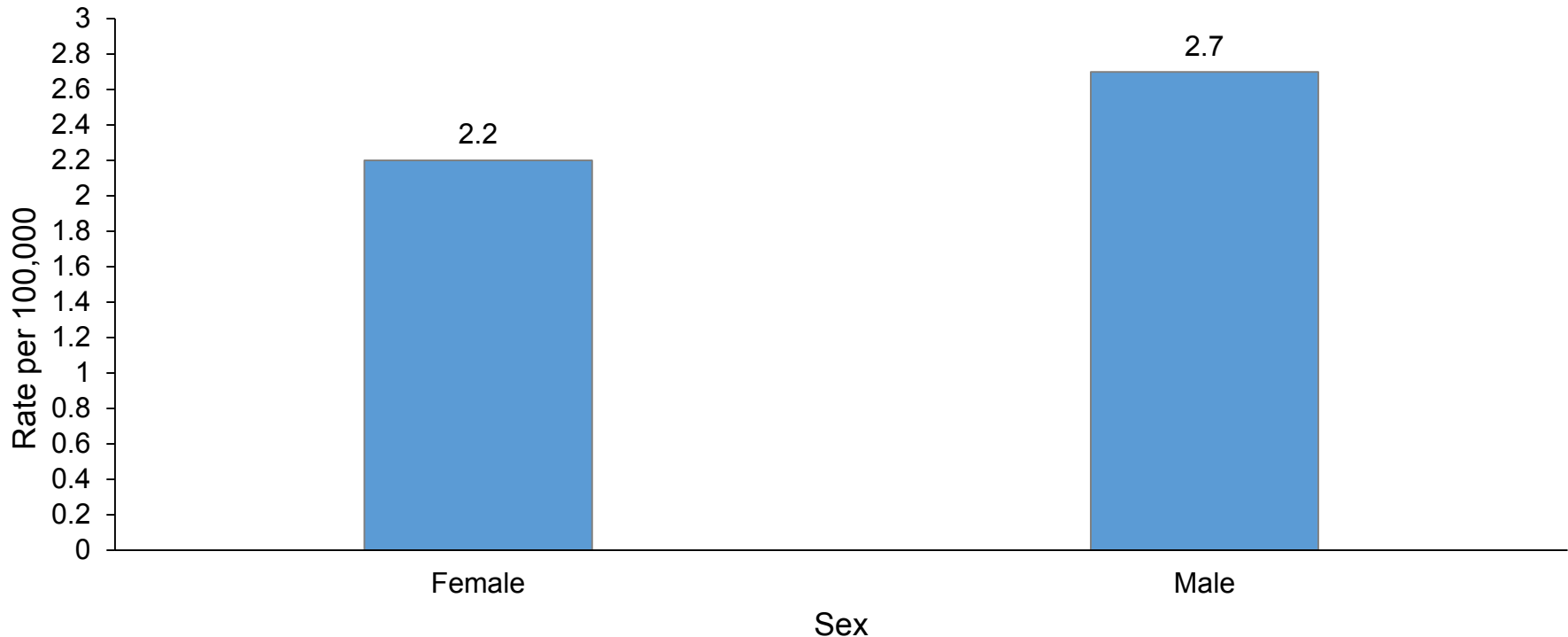


Figure 3: The 5-year rates of Hepatitis A infection in males and females from 2013-2017 demonstrate no difference by sex: 2.2 cases per 100,000 population in females, and 2.7 cases per 100,000 population in males. This mirrors the national Hepatitis A data, which shows similar rates of Hepatitis A in females and males.

5-Year Rate of Hepatitis A by County, Rhode Island, 2013-2017

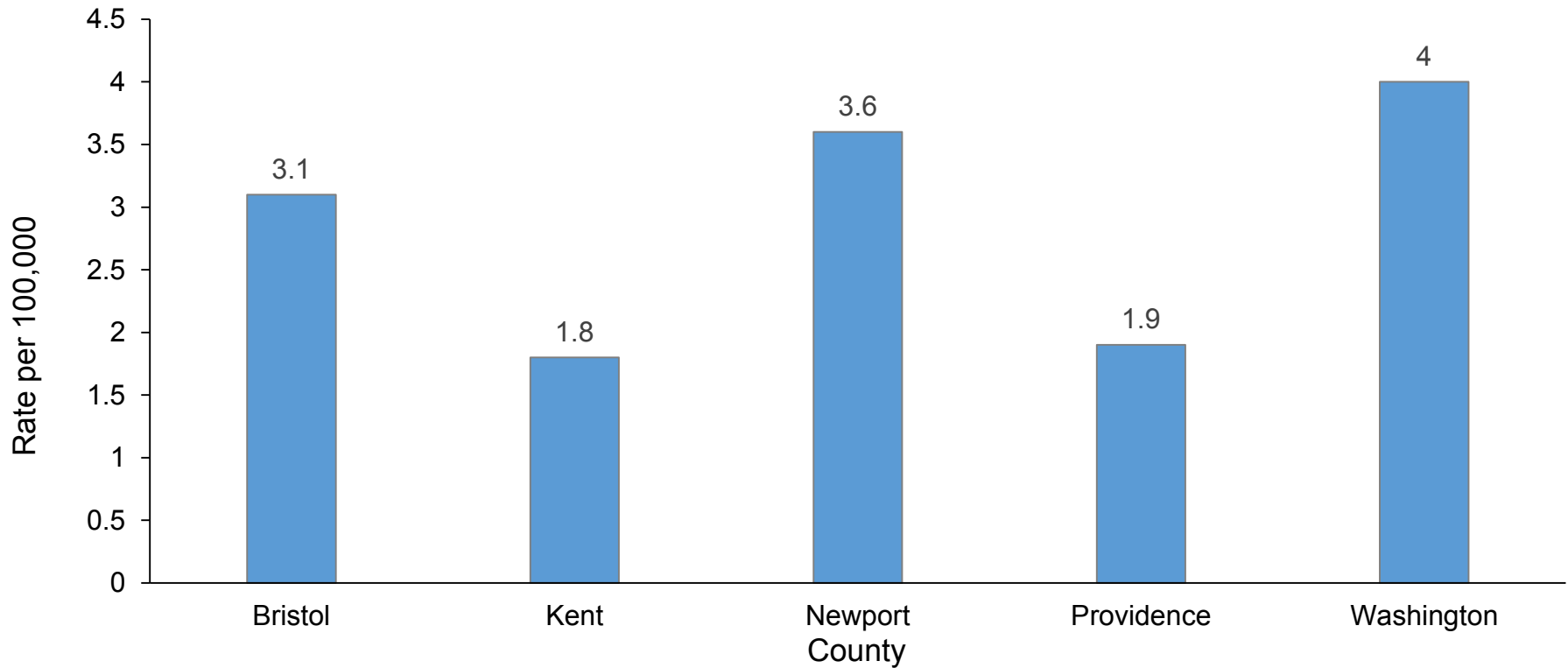


Figure 4: During 2013-2017, the highest 5-year incidence rate of Hepatitis A was in Washington County (4.0 cases per 100,000 population).

5-Year Hepatitis A Counts by Month, Rhode Island, 2013-2017

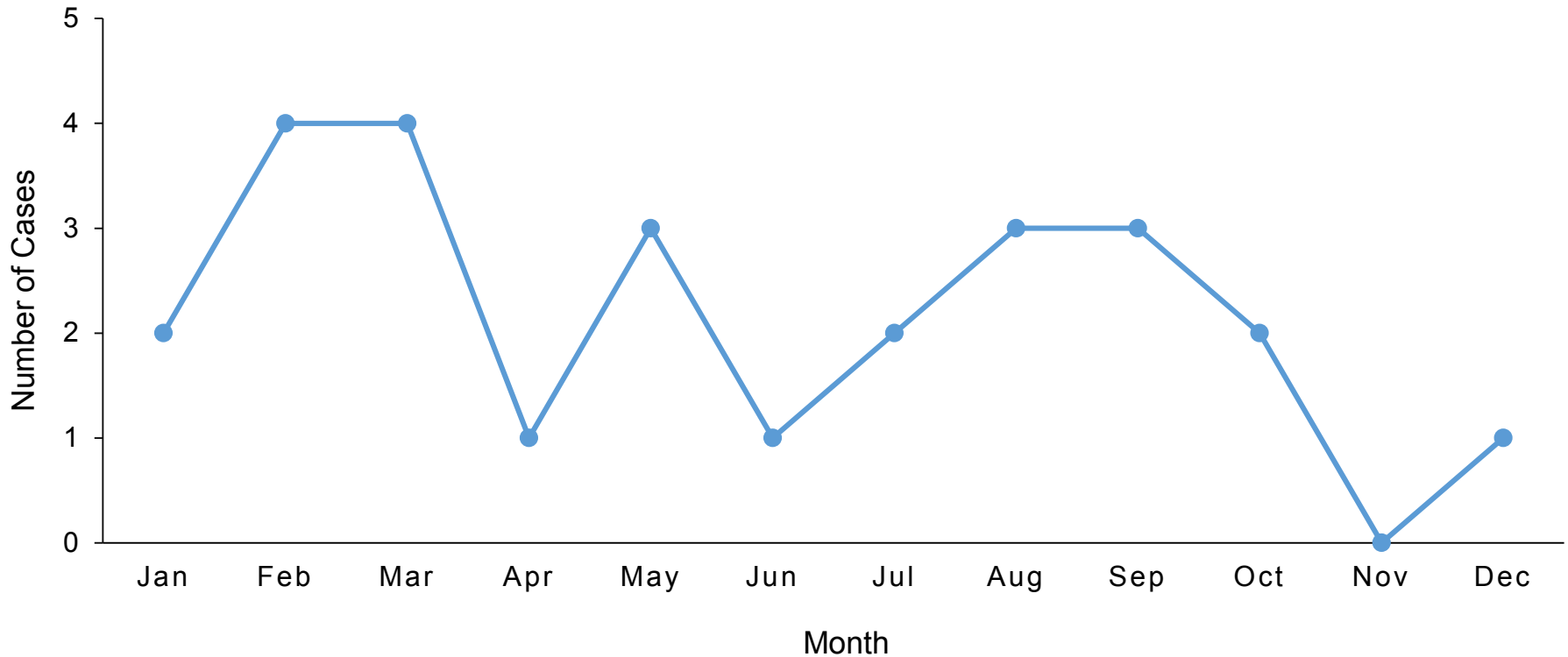


Figure 5: Hepatitis A occurs year round in RI and does not exhibit a seasonal trend.

Hepatitis A Frequency and Rates by Year, Rhode Island, 2013-2017



Table 1. Frequency by Year

	2013	2014	2015	2016	2017	5-Year Total
Number of Cases	4	8	4	4	6	26

Table 2. Rate by Year

	2013	2014	2015	2016	2017	5-Year Rate
Rate per 100,000	0.4	0.8	0.4	0.4	0.6	2.5

Hepatitis A 5-Year Counts and Rates by Age Group, Rhode Island, 2013-2017



Table 3. 5-Year Frequency by Age Group

	Count	Rate per 100,000
0-4	0	0
5-9	1	1.8
10-19	2	1.5
20-29	6	3.9
30-39	2	1.6
40-49	1	0.7
50-59	7	4.5
60-69	3	2.5
70-79	4	6.0
≥80	0	0
Total	26	

Hepatitis 5-Year Counts and Rates by Sex, Rhode Island, 2013-2017



Table 5. 5-Year Count and Rate by Sex

	Count	Rate Per 100,000
Female	12	2.2
Male	14	2.7
Total	26	

Hepatitis A 5-Year Counts and Rates by County, Rhode Island, 2013-2017



**Table 7. 5-Year Frequency and Rate by County
2013-2017**

	Count	Rate per 100,000
Bristol	3	3.1
Kent	3	1.8
Newport	3	3.6
Providence	12	1.9
Washington	5	4.0
All	26	

Hepatitis A 5-Year Counts by Month, Rhode Island, 2013-2017



Table 9. 5-Year Frequency by Month

	2013-2017
Jan	2
Feb	4
Mar	4
Apr	1
May	3
Jun	1
Jul	2
Aug	3
Sep	3
Oct	2
Nov	0
Dec	1
All	26



Notes on Data

- Case counts include patients classified as confirmed and probable cases.
- “Event Date” (used to classify cases by month and year) is generated based on the availability of data in the following order:
 1. Illness onset date
 2. Specimen collection date
 3. Date of report to public health agency
- Rate is calculated per 100,000 population.
- Population denominators are based on the Annual Estimates of the Resident Population: April 1, 2010-July 1, 2017, U.S. Census Bureau.



References

- <http://www.cdc.gov/hepatitis/hav/index.htm>
- <http://www.health.ri.gov/diseases/hepatitis/>