





Hepatitis A Surveillance 2012-2016

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 a 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, illicit drug users, individuals with clotting-factor disorders, and close 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 Rhode Island. There were four cases of Hepatitis A reported in 2016, and a total of 23 reported cases in the last 5 years (2012-2016).
- Because of these small numbers, data from the last 5 years have been combined to present a five-year incidence rate of Hepatitis A in RI.
- Hepatitis A has decreased significantly in Rhode Island and in the United States over the last several decades. In 2006-2010, there were a total of 60 reported cases in Rhode Island, while in 2001-2005, there were 169 reported cases in Rhode Island.
- The five-year incidence rate for 2012-2016 was 2.2 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 2012-2016 demonstrate little difference by sex.

Reported Cases of Hepatitis A, Rhode Island, 2012-2016

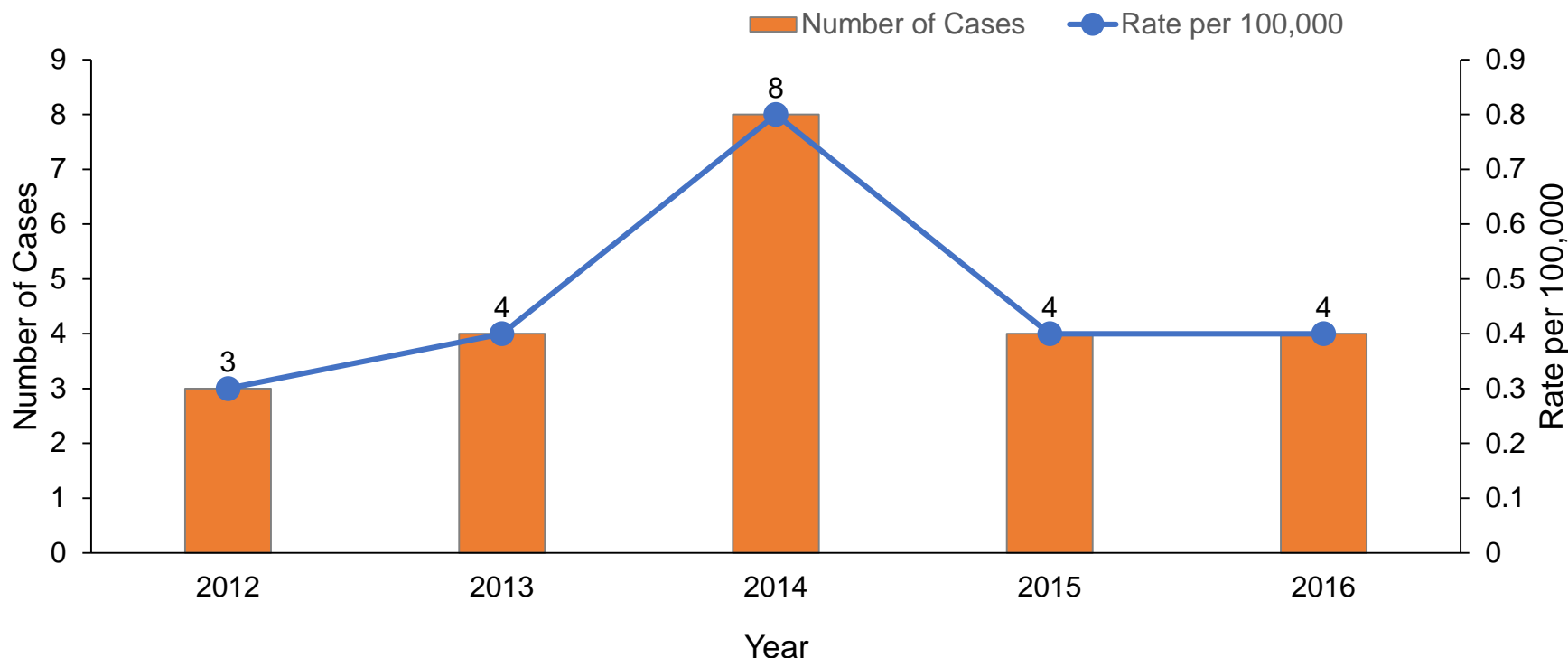


Figure 1: Hepatitis A is not common in Rhode Island. There were four cases of Hepatitis A reported in 2016, and a total of 23 reported cases in the last 5 years. The five-year incidence rate for 2012-2016 was 2.2 cases of Hepatitis A per 100,000 population. Hepatitis A has decreased significantly in Rhode Island and in the United States in the last 15 years. In 2006-2010, there were a total of 60 reported cases in Rhode Island, while in 2001-2005, there were 169 reported cases in Rhode Island.

5-Year Rate of Hepatitis A, Age Group, Rhode Island, 2012-2016

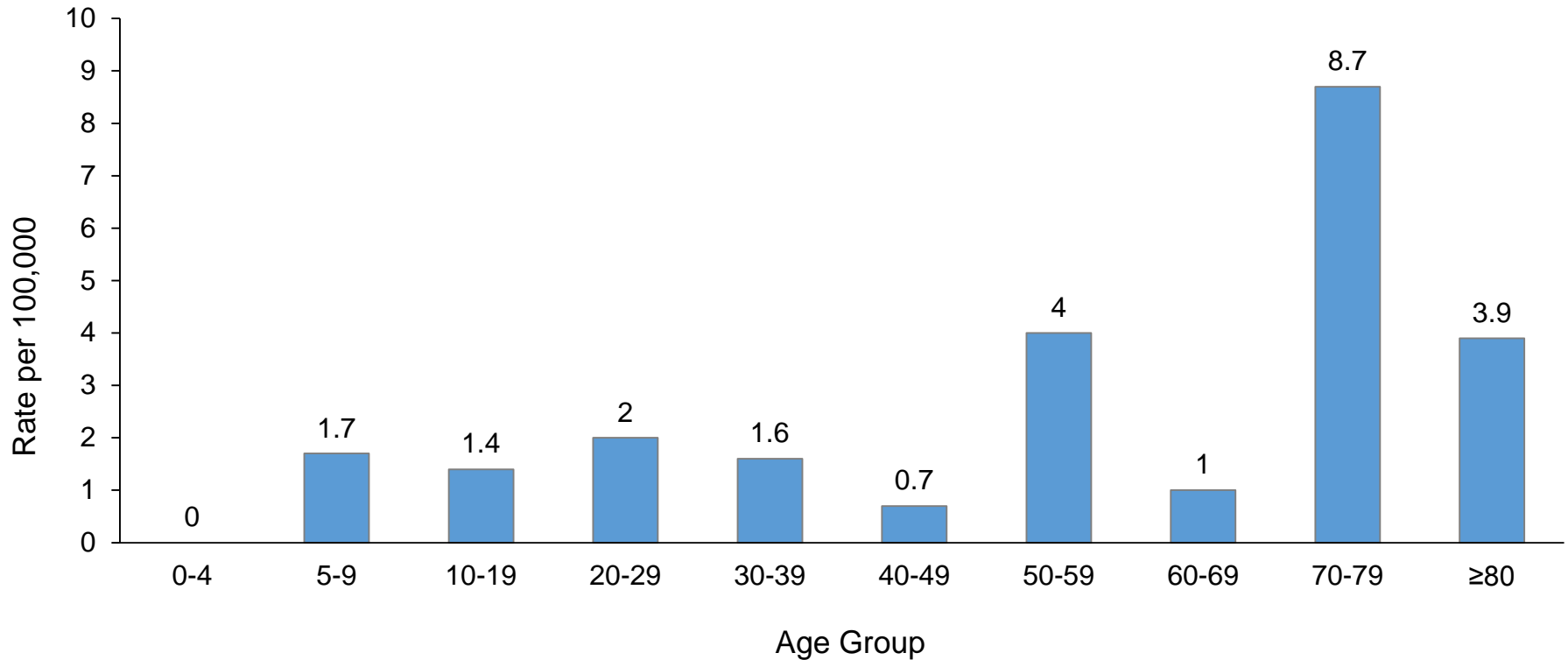


Figure 2: This graph shows the five-year incidence rates of Hepatitis A during the 5 year period of 2012-2016. Over the last five years, people 70-79 years of age had the highest incidence rate of Hepatitis A (8.7 cases per 100,000 population). Rhode Island's rates differ from the national trend in which the 30-39 age group had the highest rate of cases (0.7 cases per 100,000 population in 2013).

5-Year Rate of Hepatitis A by Sex, Rhode Island, 2012-2016

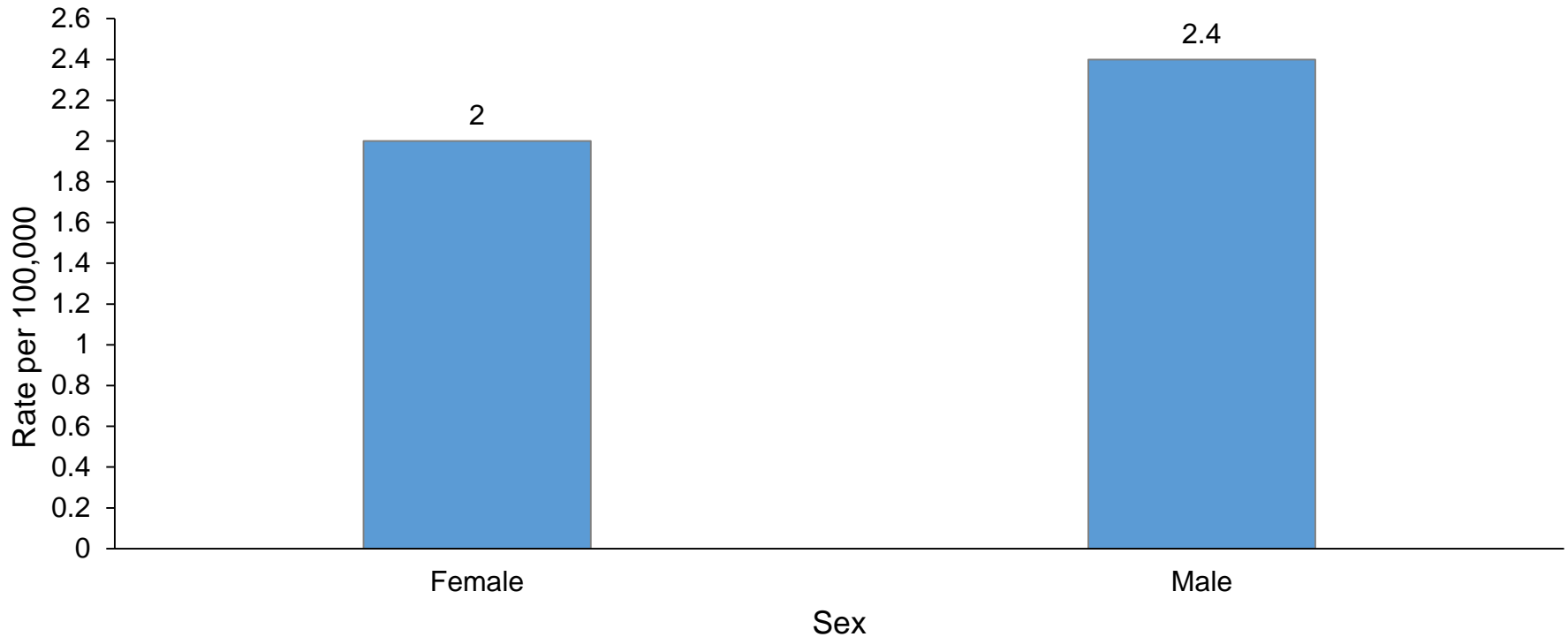


Figure 3: The 5-year rates of Hepatitis A infection in males and females from 2012-2016 demonstrate no difference by sex: 2.0 cases per 100,000 population in females, and 2.4 cases per 100,000 population in males. This mirrors the national Hepatitis A data, which shows similar rates of Hepatitis A in females and males.

5-Year Rate of Hepatitis A by County Rhode Island, 2012-2016

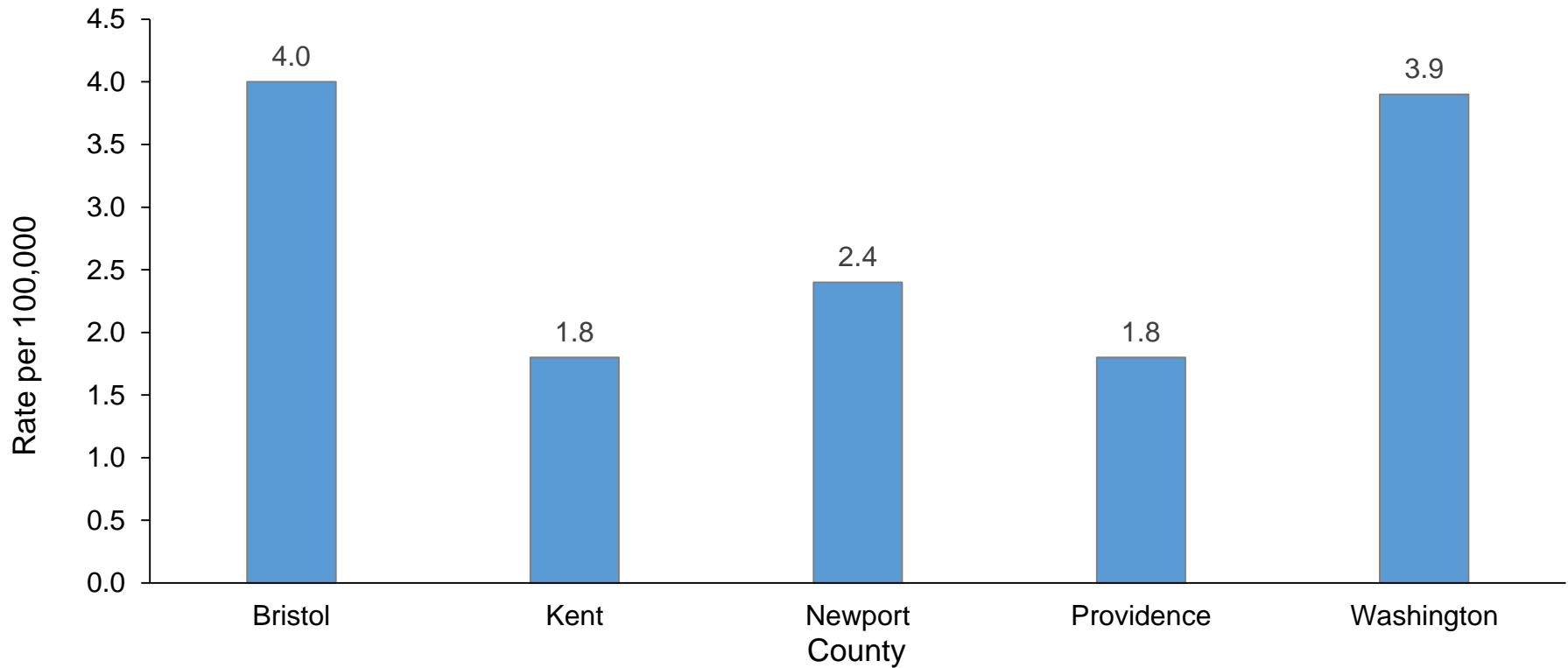


Figure 4: During 2012-2016, the highest five-year incidence rate of Hepatitis A was in Bristol County (4.0 cases per 100,000 population), followed closely by Washington County (3.9 cases per 100,000 population).

5-Year Cumulative Hepatitis A Frequency by Month, Rhode Island, 2012-2016

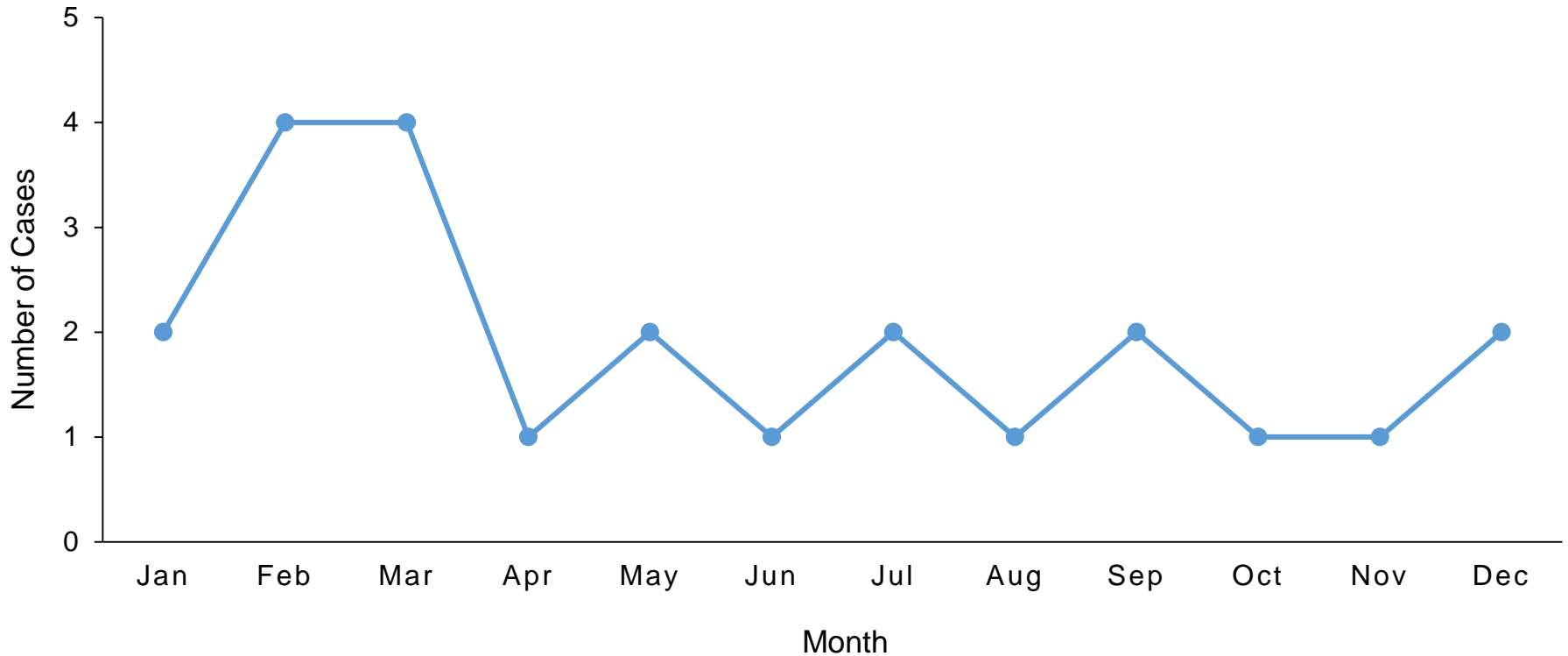


Figure 5: Hepatitis A does not exhibit a seasonal trend.

Hepatitis A Frequency and Rates by Year, Rhode Island, 2012-2016



Table 1. Frequency by Year

	2012	2013	2014	2015	2016	5-Year Total
Number of Cases	3	4	8	4	4	23

Table 2. Rate by Year

	2012	2013	2014	2015	2016	5 Year Average
Rate per 100,000	0.3	0.4	0.8	0.4	0.4	2.2

Hepatitis A 5-Year Counts and Rates by Age Group, Rhode Island, 2012-2016



Table 3. Frequency by Age Group and Year

	Count	Rate per 100,000
0-4	1	0
5-9	2	1.7
10-19	3	1.4
20-29	2	2.0
30-39	1	1.6
40-49	6	0.7
50-59	1	4.0
60-69	5	1.0
70-79	2	8.7
≥80	1	3.9
Total	23	

Hepatitis 5-Year Counts and Rates by Sex, Rhode Island, 2012-2016



Table 5. 5-Year Count and Rate by Sex

	Count	Rate Per 100,000
Female	11	2.0
Male	12	2.4
Total	23	

5-Year Hepatitis A Counts and Rates by County Rhode Island, 2012-2016



**Table 7. 5-Year Frequency and Rate by County
2012-2016**

	Count	Rate per 100,000
Bristol	2	4.0
Kent	3	1.8
Newport	3	2.4
Providence	11	1.8
Washington	5	3.9
All	23	

5-Year Hepatitis A Counts by Month, Rhode Island, 2012-2016



Table 9. Frequency by Month and Year

	2012-2016
Jan	2
Feb	4
Mar	4
Apr	1
May	2
Jun	1
Jul	2
Aug	1
Sep	2
Oct	1
Nov	1
Dec	2
All	23



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. The population denominator is based on 2010 US Census Population.



References

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