

Massachusetts Acute Care Hospital Readmissions Profile: Nashoba Valley Medical Center, July 2020 to June 2021 October 2023



In February 2023, the Center for Health Information and Analysis (CHIA) released [Hospital-Wide Adult All-Payer Readmissions in Massachusetts: 2011-2021](#), its annual report on hospital-wide all-cause readmissions in the Commonwealth. That report applied the Hospital-Wide All-Cause Unplanned 30-day Readmission Measure developed by the Centers for Medicare and Medicaid Services (CMS) and the Yale Center for Outcomes Research to the adult all-payer population in the Commonwealth. It includes detailed readmission statistics for the state as a whole and hospital-specific readmission rates for Massachusetts acute care hospitals. This readmission profile series provides more in-depth information on each hospital.

This profile contains readmission statistics for Nashoba Valley Medical Center presented in the context of the statewide figures and of the patient population that Nashoba Valley Medical Center serves. CHIA hopes that these reports will be useful to hospitals and to other stakeholders working to reduce readmissions in the Commonwealth. The profile is based on data submitted by Massachusetts acute care hospitals to CHIA's Hospital Discharge Database (see <http://www.chiamass.gov/case-mix-data/>). Most of the statistics presented in this profile are available for all Massachusetts acute care hospitals in an Excel workbook from <http://www.chiamass.gov/hospital-wide-adult-all-payer-readmissions-in-massachusetts/>.

It is important to note a few features of the Yale/CMS readmissions methodology as modified by CHIA for Massachusetts reporting.

- The calculations reflect the all-payer population. CMS reports on Medicare Fee-for-Service patients only.
- Readmissions from Nashoba Valley Medical Center back to Nashoba Valley Medical Center as well as those back to other acute care hospitals in the Commonwealth are included.
- The calculations exclude primary psychiatric and obstetric discharges.
- The calculations include adults (age 18+) only.

- This profile primarily covers the state fiscal year 2021, from July 1, 2020 to June 30, 2021. Some data displays include additional years.
- Breakouts with fewer than 11 data points (e.g. discharges, readmissions, or patients) are suppressed to protect patient privacy.

Please note, the historical figures presented in this report have been updated and will not match those from earlier reports.

With the exception of the first table and the first figure on the next page, the readmission rates reported here are not risk-adjusted. The patterns and trends reported in this profile reflect this hospital's patient case-mix, practice patterns, and any licensure for providing specialized inpatient services. All analyses were based on discharge data as submitted to CHIA by Massachusetts acute care hospitals. Further detail is available in the Technical Appendix for CHIA's recent [annual statewide readmissions report](#).

This report contains the following information profiling readmissions at Nashoba Valley Medical Center. Except where indicated below, all displays cover the period from July 2020 to June 2021.

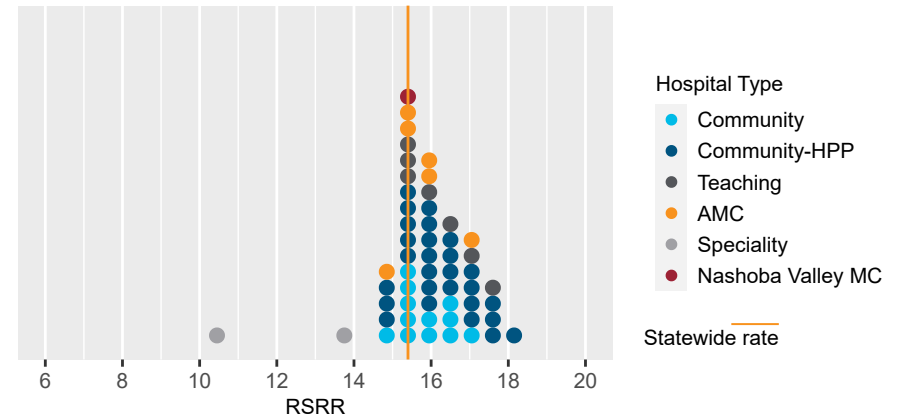
- [Overview of readmissions statistics](#)
- [Risk-standardized readmission rates by hospital type](#)
- [Number of readmissions by time since discharge](#)
- [Readmission rates by age](#)
- [Readmission rates by payer type](#)
- [Readmission rates by discharge setting](#)
- [Diagnoses with the highest numbers and rates of readmissions](#)
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- [Readmissions among frequently hospitalized patients](#)

Overview of Readmissions Statistics, July 2020 - June 2021

	Nashoba Valley MC	Statewide
Eligible Discharges	1,360	536,709
Readmissions	200	82,900
Readmission Rate	14.7%	15.4%
Risk-Standardized Readmission Rate	15.2%	15.4%

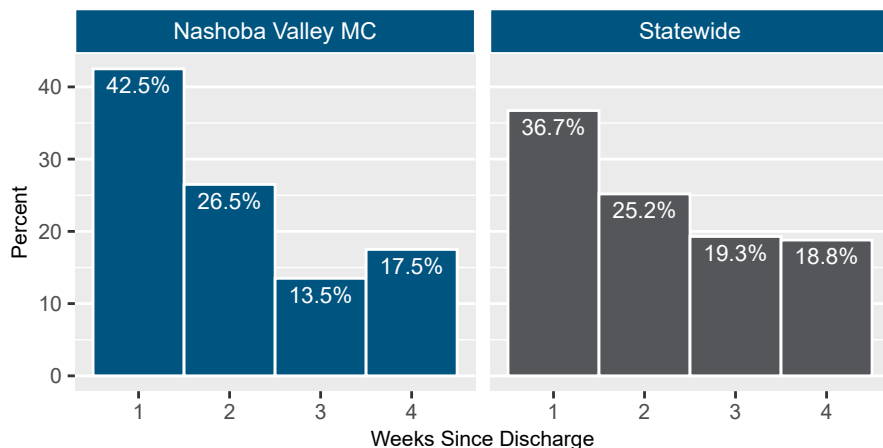
This table contains the overall readmission statistics for Nashoba Valley Medical Center for state fiscal year 2021. The statewide figures are provided for comparison.

All-Payer Risk-Standardized Readmission Rates by Hospital Type, July 2020 to June 2021



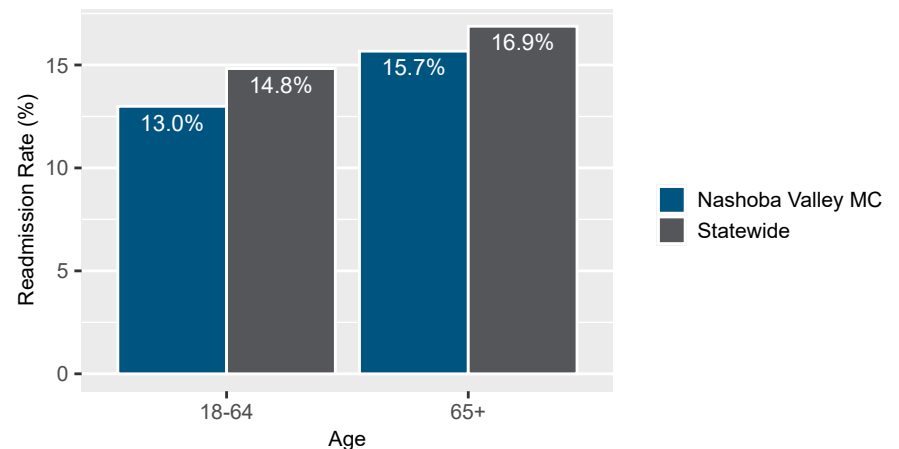
This graph shows the distribution of risk-standardized readmission rates for hospitals. Nashoba Valley Medical Center is indicated by the red dot. Nashoba Valley Medical Center is a hospital type of Community - High Public Payer. Please see the statewide report for more information on hospital type.

Length of Time Between Discharge and Readmission, July 2020 to June 2021



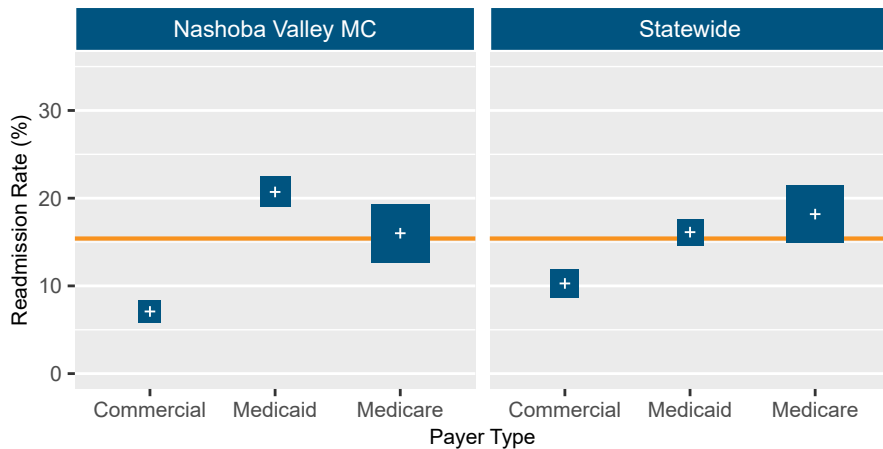
These plots show the percentage of readmissions by week from the time of the initial discharge. Cells with < 11 cases are suppressed.

All-Payer Readmission Rates by Age, July 2020 to June 2021



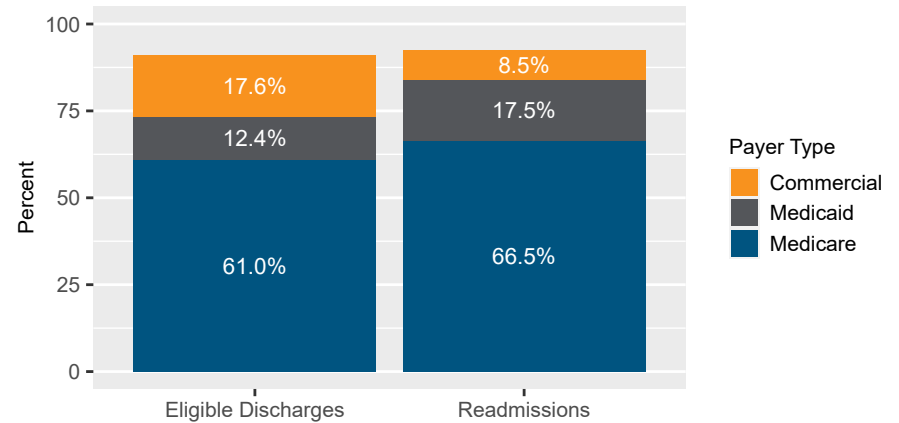
This graph shows readmission rates by age for Nashoba Valley Medical Center and for the state. Cells with < 11 cases are suppressed.

All-Payer Readmission Rate by Payer Type, July 2020 to June 2021



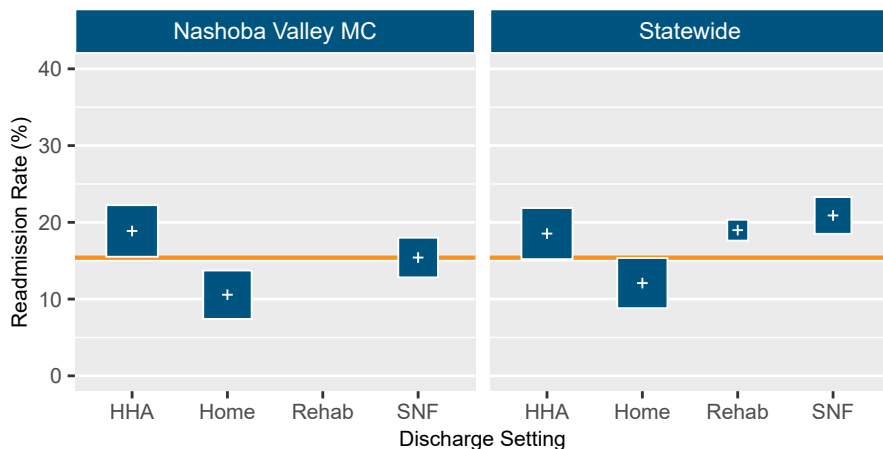
These plots show hospital and statewide readmissions broken out by the expected payer type. Vertical position of the box indicates the rate, and the size of the box is proportional to the number of readmissions. Orange line is statewide rate. Cells with < 11 cases are suppressed.

Payer Type Profile, July 2020 to June 2021



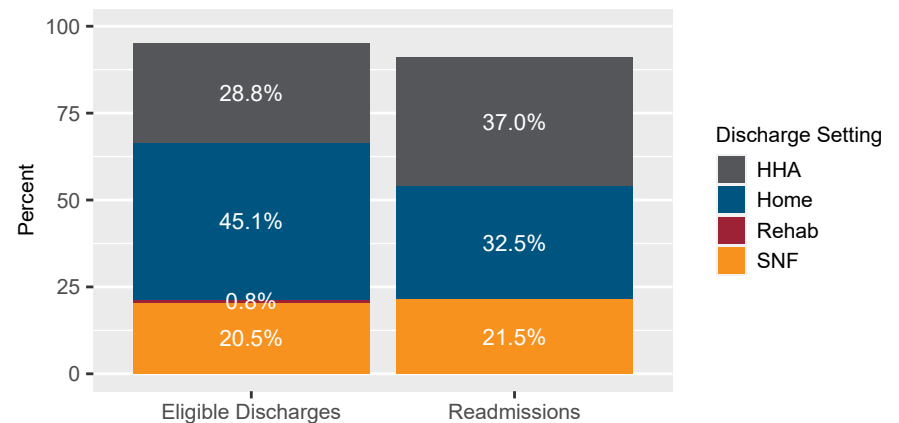
This chart compares the payer profile of all eligible discharges from Nashoba Valley Medical Center to the payer profile of discharges from Nashoba Valley Medical Center that resulted in a readmission. Note: "Self-Pay" and "Other" categories not shown. Cells with < 11 cases are suppressed.

All-Payer Readmission Rate by Discharge Setting, July 2020 to June 2021



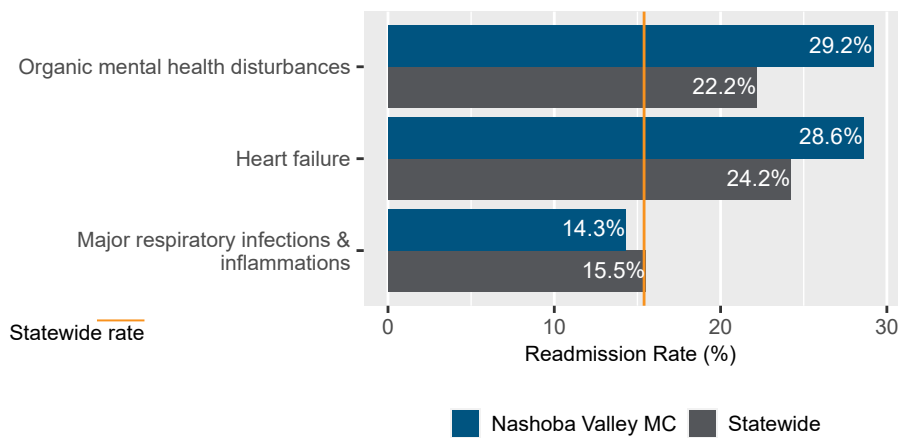
This graph shows readmission rate by the setting to which the patient was originally discharged. Orange line is statewide rate. Cells with < 11 cases are suppressed. Note: SNF = skilled nursing facility, HHA = home with home health agency care. Hospice category not shown.

Discharge Setting Profile, July 2020 to June 2021



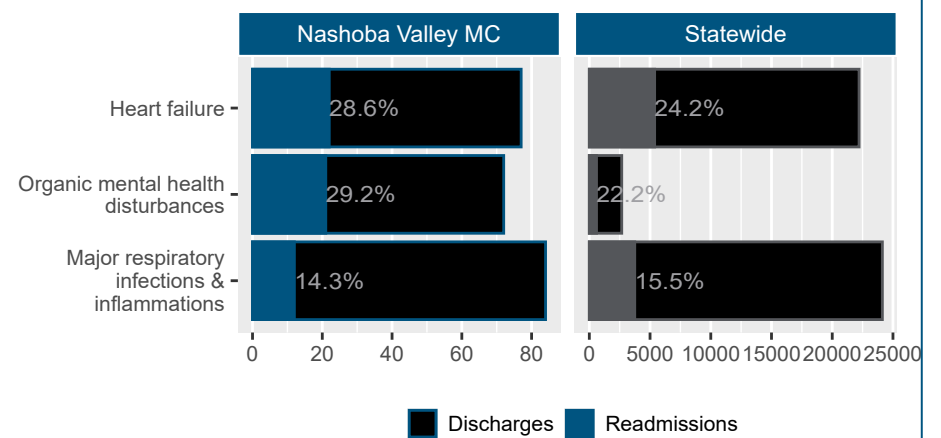
This chart compares the payer profile of all eligible discharges from Nashoba Valley Medical Center to the payer profile of discharges from Nashoba Valley Medical Center that resulted in a readmission. Cells with < 11 cases are suppressed. Hospice category not shown.

Top Diagnoses with Highest Rates of Readmission, July 2020 to June 2021



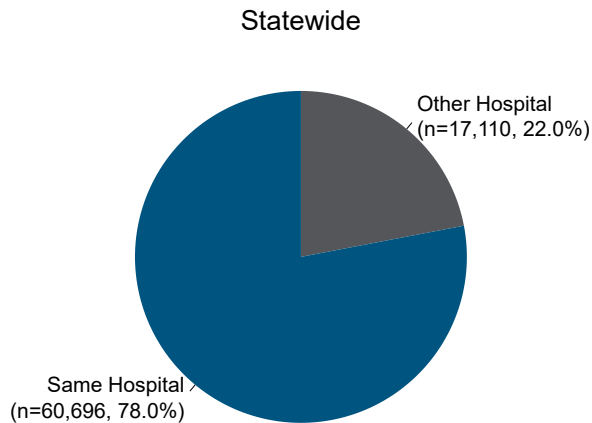
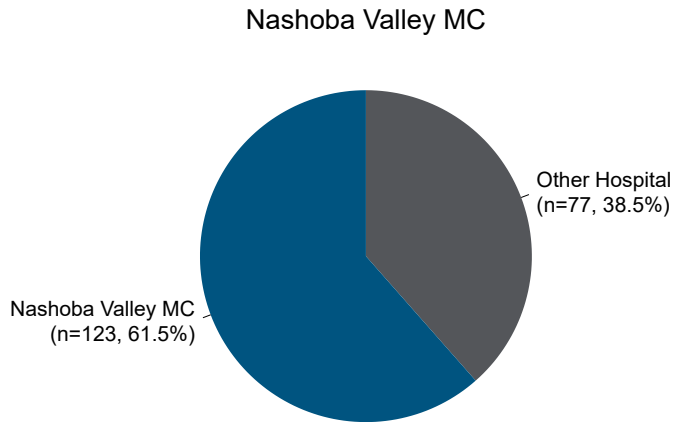
This plot shows the discharge conditions with the highest rates of readmissions for Nashoba Valley Medical Center and corresponding figures for those conditions statewide. Up to the top 10 conditions are shown but only conditions with 25 or more discharges and 11 or more readmissions are included.

Top Diagnoses with Highest Numbers of Readmissions, July 2020 to June 2021



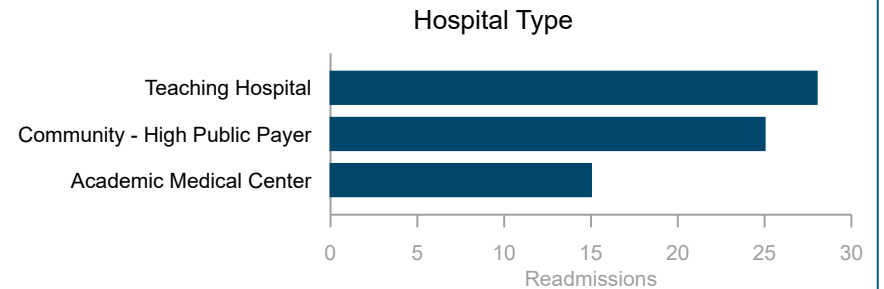
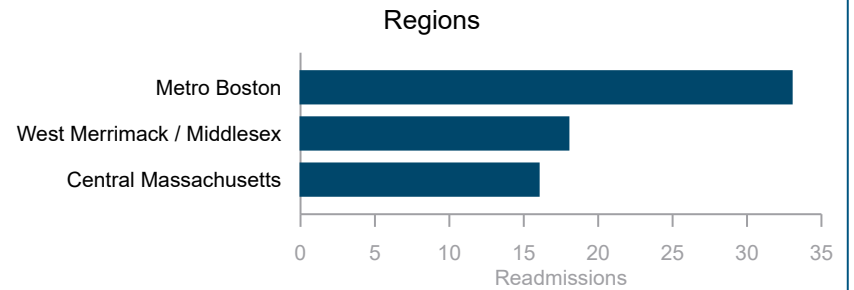
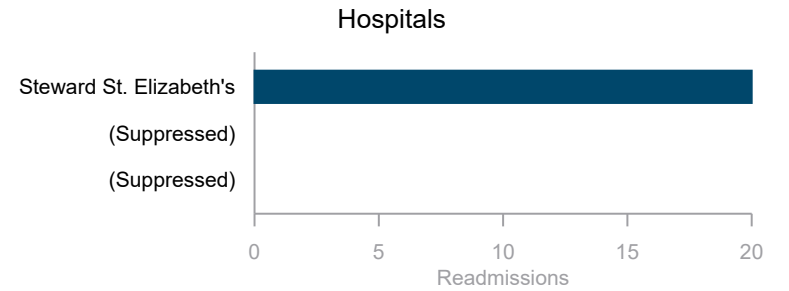
These plots show the discharge conditions with the highest numbers of readmissions at Nashoba Valley Medical Center and the corresponding figures for those conditions statewide. The outlined bars represent the total number of discharges for each diagnosis, and the filled-in bars show the number of readmissions. The figures next to each bar give the readmission rates. Up to the top 10 conditions are shown but only conditions with 25 or more discharges and 11 or more readmissions are included.

Readmissions to Other Hospitals, July 2020 to June 2021



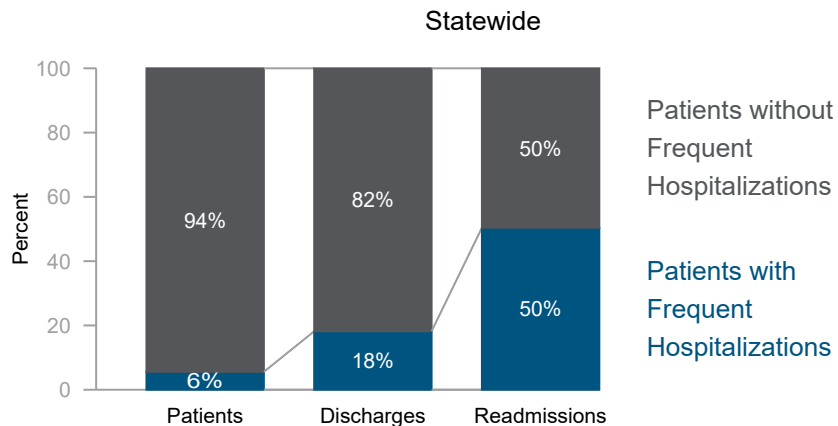
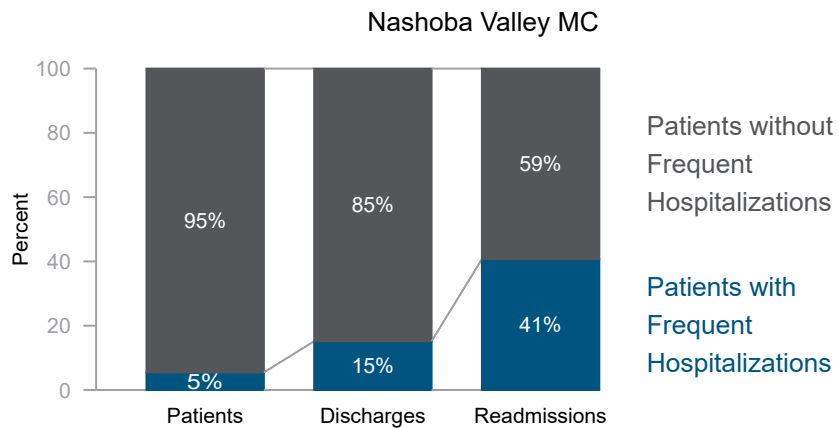
This figure shows the proportion of the readmissions from Nashoba Valley Medical Center that were to another hospital, along with the corresponding statewide figure.

Characteristics of Readmissions to Other Hospitals, July 2020 to June 2021



This display provides more information on discharges from Nashoba Valley Medical Center in which the patient was subsequently readmitted to another hospital. The top portion of the figure shows the top three other hospitals to which patients from Nashoba Valley Medical Center were readmitted. The middle portion shows the regions in which these patients were readmitted. The bottom portion shows the types of hospitals to which they were readmitted. Hospital type of Specialty not shown. Each bar represents the total number of readmissions from Nashoba Valley Medical Center that were readmitted to other hospitals. Due to data privacy concerns, only groups with 11 or more readmissions are listed. For definitions of the geographic regions, please see the statewide report.

All-Payer Readmissions among Frequently Hospitalized Patients, July 2020 to June 2021



In the statewide report, CHIA reported readmissions for frequently hospitalized patients, defined as those with four or more hospitalizations within 12 months of their most recent discharge. This chart shows the percentage of patients, discharges, and readmissions accounted for by frequently hospitalized patients at Nashoba Valley Medical Center. Cells with fewer than 11 cases are suppressed and will be shown as a black bar.

Hospital Readmissions among Frequently Hospitalized Patients by Payer Type, July 2020 to June 2021

Nashoba Valley MC

	Number of Patients	Percentage within Group	Number of Discharges	Number of Readmissions	Readmission Rate (%)
Patients with Frequent Hospitalizations	53	100.0%	206	81	39.3%
Commercial	--	--	--	--	--
Medicare	43	81.1%	157	53	33.8%
Medicaid	--	--	--	--	--
Patients without Frequent Hospitalizations	906	100.0%	1,138	115	10.1%
Commercial	195	21.5%	234	14	6.0%
Medicare	522	57.6%	674	80	11.9%
Medicaid	105	11.6%	136	16	11.8%
Total	959		1,344	196	14.6%

This table shows the breakdown of frequently hospitalized patients at Nashoba Valley Medical Center by payer type, and the associated readmission rates for these groups. Note: Percentages within groups may not sum to 100 because the table excludes "Self-Pay" and "Other" categories. Frequently hospitalized patients are defined as those with four or more hospitalizations within 12 months of their most recent discharge. Cells with fewer than 11 cases are suppressed to protect patient privacy. Additionally, cells that might be used to derive the contents of suppressed cells are also suppressed. All such cells are indicated by "--".

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