



# Massachusetts Acute Care Hospital Emergency Department Data— Quarterly Update:

October 2018 Through September 2023 (Preliminary)

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## Introduction

Emergency departments (EDs) serve a vital role in the Massachusetts health care system. To better understand trends in ED utilization, the Massachusetts Center for Health Information and Analysis (CHIA) has analyzed ED visits in all acute care hospitals in Massachusetts quarterly from Federal Fiscal Year (FFY) 2019 through the fourth quarter of FFY 2023 (October 2018–September 2023). Results and graphic visualizations from this analysis are presented in an [interactive dashboard](#) available on the CHIA website. It is accompanied by a [databook](#) with more detailed analyses and a [technical appendix](#). This dashboard update includes new enhancements, including a new section reporting on visit average length of stay by patient age group, sex, race/ethnicity, and expected payer type.

The data source for the dashboard and databook is CHIA's Emergency Department Database (EDD), consisting of ED visits from all acute care hospitals in Massachusetts resulting in neither an inpatient admission nor an observation stay (treat-and-release visits). This dashboard uses interim data to present analyses on a quarterly basis on measures of ED utilization and visit characteristics at a statewide level and for select analyses at the hospital level. The data in quarterly updates are preliminary, with the primary purpose of this series to provide timely patterns and trends on key ED utilization measures. The dashboard and databook will be updated quarterly with more complete data as they become available and as CHIA continues to work with providers to process and confirm data submissions through the data collection process.

This quarterly update includes new data from October 2018 to September 2023. This update is organized in the following nine sections:

- Statewide Utilization
- Statewide Utilization by ZIP Code
- Utilization by Hospital
- Visit Characteristics
- ALOS Characteristics
- Excess Length of Stay
- Diagnoses
- Behavioral Health
- COVID-19

### Statewide Utilization

The utilization section presents the total number of ED visits and the average length of stay for ED visits statewide and by hospital characteristics. Hospital characteristics include hospital cohort, high public payer status, and trauma designation.

### Statewide Utilization by ZIP Code Map

This map shows statewide utilization patterns by patient Zip Code of residence. The map shows both the number of emergency department visits and the rate of visits per 100 residents in percentiles by Zip Code. Measures are shown for all emergency department visits across Massachusetts on a yearly basis for FFY2019-2022. This section does not use preliminary data.

### Utilization by Hospital

This section presents hospital-level ED utilization measures on a quarterly basis for all acute care hospitals in Massachusetts. The measures included are total visits and average length of stay.

### Visit Characteristics

This section shows statewide utilization patterns by ED visit characteristics, including the age group, sex, and race/ethnicity of the patient as well as the expected primary payer type.

### Average Length of Stay Characteristics

This section shows statewide utilization patterns by ED ALOS characteristics, including the age group, sex, and race/ethnicity of the patient as well as the expected primary payer type.

### Excess Length of Stay

This section shows visits with longer than average length of stay broken out by visits associated with a behavioral health diagnosis, non-behavioral health visits, and all visits at the statewide level. The [dashboard](#) includes four different thresholds to categorize excess length of stay (4, 6, 12, and 24 hours).

### Diagnoses

This section presents common primary diagnoses associated with ED visits by age group at a statewide level. Additionally, the average length of stay for each of these primary diagnosis categories is provided.

### Behavioral Health

This section shows total visits and average length of stay for ED visits associated with any behavioral health condition and by specific behavioral health diagnosis categories. These estimates are presented for all ED visits statewide and by age group.

### COVID-19

This section shows statewide utilization patterns for COVID-19- and non-COVID-19-associated ED visits by patient and visit characteristics, including expected primary payer type, age group, sex, race/ethnicity. The measures included are total visits, percent of total visits, and average length of stay.

For more information, please contact:



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