



CRISP

Hospital Volume Trend Report

User Guide



By CRISP, last updated 6/30/20



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Hospital Volume Trend Report

Background

To support hospitals in preparation for volume changes related to COVID19, CRISP has developed and released a tableau report comparing historical hospital volume to the current volume. This report presents the percent change in volume of inpatient (IP) admissions and emergency department (ED) visits for Maryland, District of Columbia (DC) and individual hospitals.

In Maryland, data is based of Case Mix data submitted to the Health Services Cost Review Commission (HSCRC) and admissions, discharge, and transfer (ADT) data for the most recent weeks. In DC, the data is solely based of ADT data from hospitals. These volume counts reported through ADT feeds are imprecise for reasons such as differences in how feeds are implemented among hospitals.

Data Sources

Hospital Volume:

The primary data source for Maryland is all payer Case Mix data collected form the Health Services Cost Review Commission (HSCRC). The baseline is calculated by historical Case Mix data for CY 2019. The Case Mix data includes all visits at Maryland hospitals across all payers. ADT feeds are used to calculate the most recent weeks until Case Mix data becomes available. The outputs are normalized for seasonal and day of the week variations.

The primary data source for District of Columbia is admission, discharge and transfer data from individual hospitals. The baseline is calculated using volume trends from January and February. Trends are normalized for day of the week variations.

The Health Level Seven (HL7) ADT messages CRISP receives from Maryland and DC hospitals communicate that:

- a patient's "state" (admitted, discharged, or transferred) has changed, or
- his or her personal or demographic information (such as the patient's name, insurance, next of kin, attending doctor, etc) has been updated.

Patients who initially present in the emergency department that become admitted will only count towards the inpatient data.



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Tableau Hospital Volume Trend Report Access/Card


Step 1. To access the Hospital Volume Trend Report, login to the CRISP Reporting Services Portal by visiting <https://reports.crisphealth.org>. Once in the CRS Portal, a dashboard of different blue report “cards” will appear, availability of reports is based on the access of the user. Clicking the card named “Hospital Volume Trend” will bring up the available reports for this category. The following screen shots represent the user’s workflow.









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Step 2. By clicking the Tableau icon as shown below, you will access to the Hospital Volume Trend Report. The question mark icon will allow you to access documentation such as user guides and data dictionaries where applicable.

 **Public Health Dashboard**

Available Reports	
Confirmed COVID-19 Cases	 
Hospital Volume Trend	
MIEMSS Facility Resources Emergency Database - FRED - Hospital Capacity Dashboard	 
Laboratories and Ordering Facilities for COVID-19 Positive and Negative Cases - NEDSS	 
Post Acute Capacity	 
Confirmed COVID-19 Admit and Discharge Trends	
Public Health Dashboards	 
Public Health Dashboard Training	 



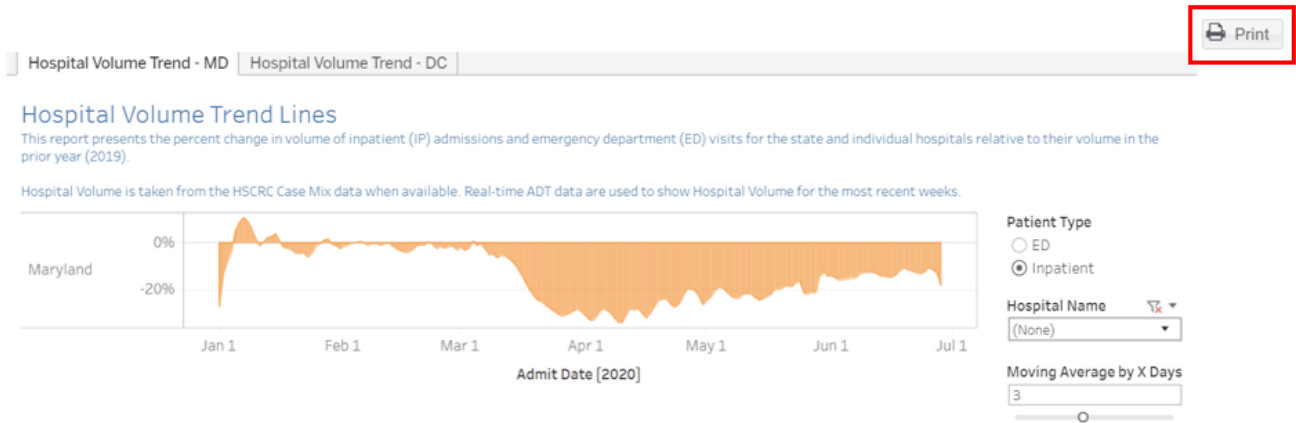
 [Tableau Reports](#)  [Documentation](#)  [Training video](#)



Tableau Features

On each Tableau dashboard, there are menu options for the user to select, which are listed below. Additionally, the Tableau report contains multiple dashboards. The available dashboards are listed at the top.



Menu Option	Description
Print	This button allows you generate a PDF from the selected tabs in Tableau. When you click the icon, a menu with various export options appear. The user can print multiple tabs and with the desired filters, and the user has options to adjust the page scaling, paper size, and paper orientation for printing.



Report Sections

The Hospital Volume Trend report is broken into two tabs, one for Maryland and one for DC. Users can see the current hospital volume by day as a percent difference from the baseline. Hovering over the graph will bring the exact percentage difference for the selected date.

Users can toggle the volume between Emergency Department (ED) or Inpatient visit types. Selecting a moving average, averages the past X days to normalize the graph. The data through date can always be found in the lower right-hand section of the report.

Hospital Volume Trend - MD | Hospital Volume Trend - DC

Hospital Volume Trend Lines

This report presents the percent change in volume of inpatient (IP) admissions and emergency department (ED) visits for the state and individual hospitals relative to their volume in the prior year (2019).

Hospital Volume is taken from the HSCRC Case Mix data when available. Real-time ADT data are used to show Hospital Volume for the most recent weeks.

