



**MASSACHUSETTS**  
HEALTH POLICY COMMISSION

# Estimating the Impact of COVID-19 on the Health Care System

Updated November 18, 2020

## Background and Next Steps

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As part of its efforts to support the Commonwealth with **insights about the impact of the COVID-19 pandemic on the Massachusetts health care system**, the Health Policy Commission (HPC) has compiled the most recent national and state information available to understand the range of potential impacts.

In the following slides, the HPC:

- Summarizes select **industry reports and other economic and survey data** on health care utilization and spending and provider and payer impacts, and
- Using Massachusetts utilization and spending data, models **differential impacts** of the pandemic on use of care by service category, provider organization and sector.

The HPC will **continue to analyze** the impact of COVID-19 on spending and utilization in Massachusetts as data becomes available and monitor health system changes to **inform policy efforts** during and after the crisis.

## Potential Impacts of the COVID-19 Pandemic on the Health Care System: June Update

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### Presentation Agenda

- Summary of new industry reports and studies of the impact of the COVID-19 pandemic on spending and utilization through mid-May, after most states have reopened to varied extents
- Continued discussion of the implications of the pandemic on and opportunities for the HPC's work including preliminary results of impact modeling on provider organizations

## The reduction in health care utilization and spending in April was dramatic, with declines of greater than 50% in many categories.

*Change in quantity for April 2020 relative to April 2019*

### Hospital Services



- Emergency department visits: **-50%**
- Inpatient discharges: **-33%**
  - *Smallest hospitals: -38%*
  - *Largest hospitals: -28%*
- Outpatient revenue: **-50%**
- Operating room minutes: **-80%**

### Physician Office Visits and Services

*Variation by type of care (see next slide)*



Overall: **-60% to -70%**

### Prescriptions

*Reductions tied to fewer office visits that would initiate new prescriptions*

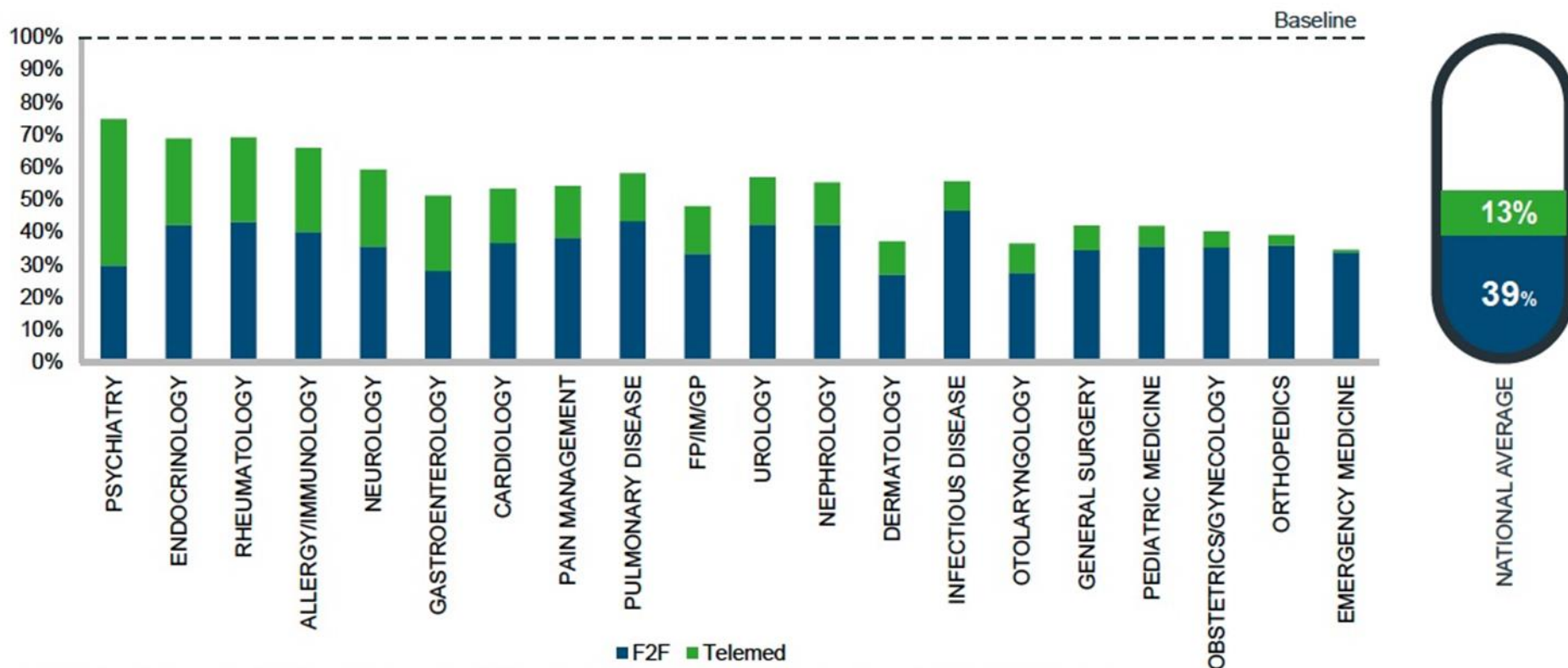


Overall: **-10%**

Sources: KaufmanHall, May 2020 National Hospital Flash Report; Strata Decision Technology, National Patient and Procedure Volume Tracker, version 5.11.20; IQVIA, Monitoring the impact of COVID-19 on the Pharmaceutical Market, May 15, 2020, data week ending May 1, 2020; Ateev Mehrotra, Michael Chernew, David Linetsky, Hilary Hatch, and David Cutler, "The Impact of the COVID-19 Pandemic on Outpatient Visits: A Rebound Emerges," The Commonwealth Fund and Phreesia; CDC Morbidity and Mortality Weekly Report, Impact of the COVID-19 Pandemic on Emergency Department Visits — United States, January 1, 2019–May 30, 2020, June 3, 2020

## The reduction in physician care and use of telehealth varied by specialty.

Visit volume (blue = in-person; green = telehealth) for week ending 5/1/20 relative to Jan-Feb 2020



Source: IQVIA: Real World Data, Medical Claims, 2020, adjusted, baseline is set as average visit volume for first 8 weeks of 2020 for each respective specialty

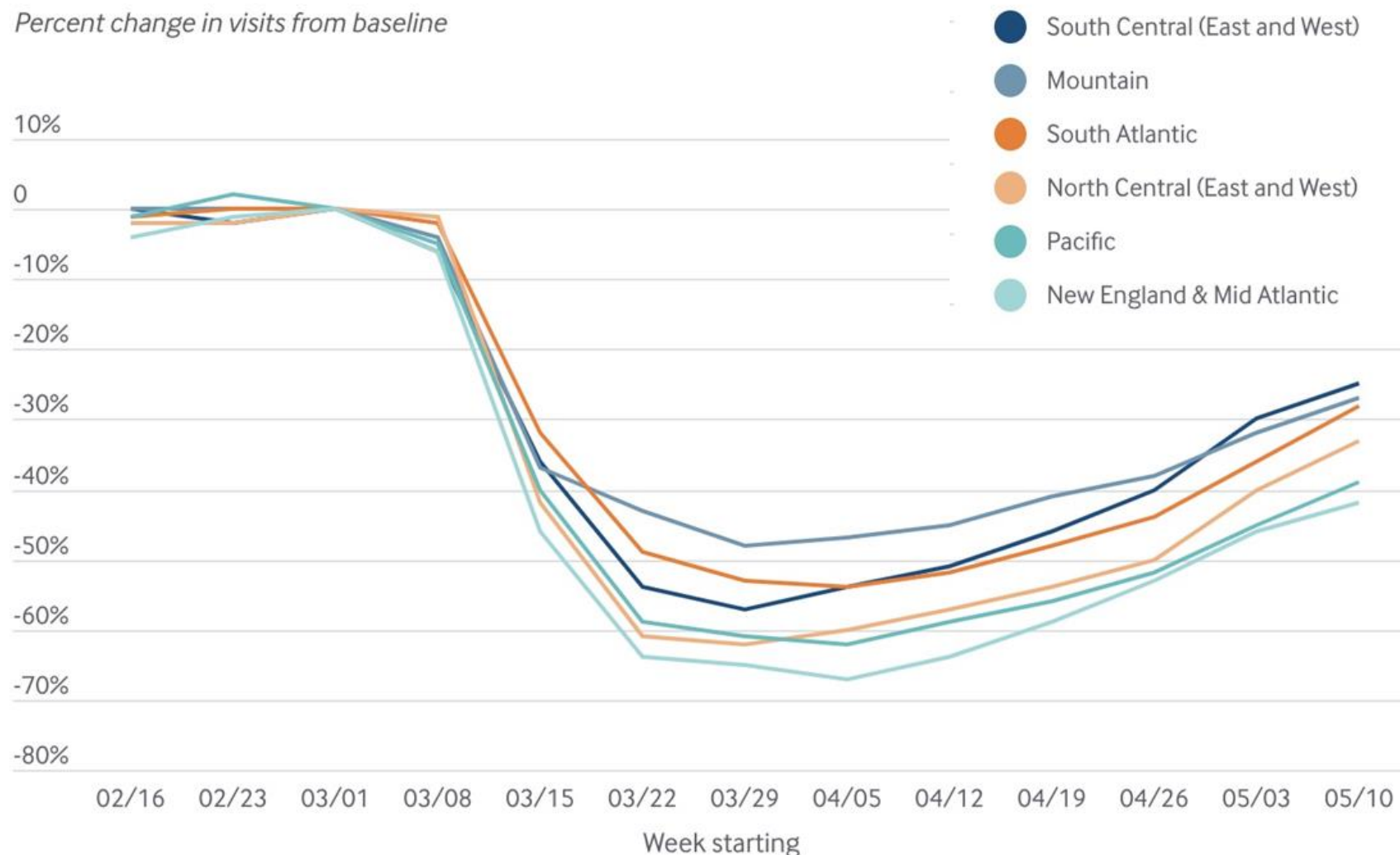
COVID-19 Market Impact - w/e May 1, 2020

IQVIA

## Data through mid-May shows an increase in visit volume after steep declines in March and April, with New England rebounding more slowly.

Visit volume (all types) relative to week of March 1, 2020

Percent change in visits from baseline

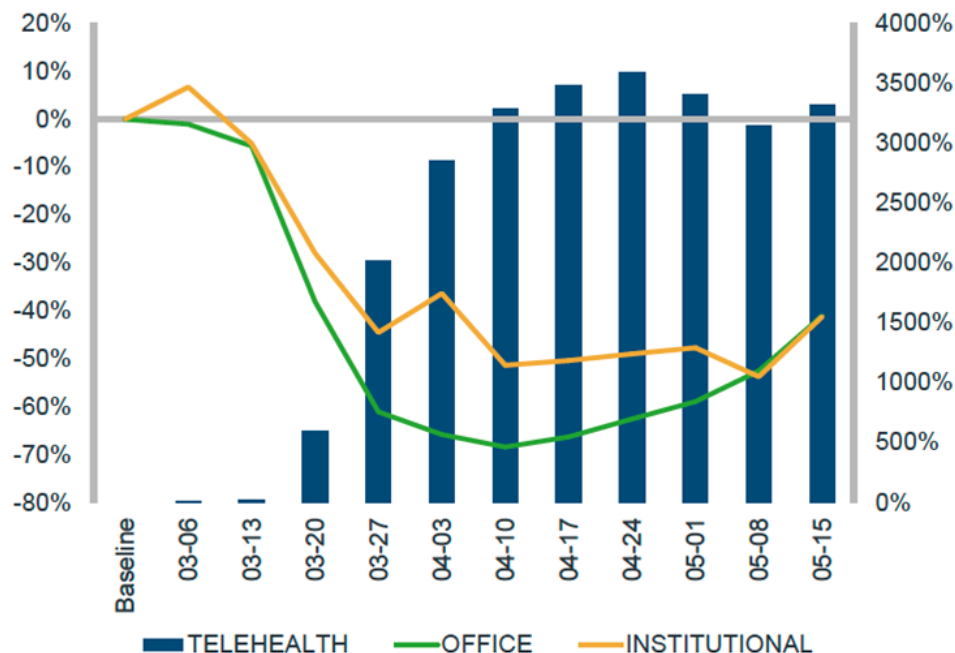


Sources: Ateev Mehrotra, Michael Chernew, David Linetsky, Hilary Hatch, and David Cutler, "The Impact of the COVID-19 Pandemic on Outpatient Visits: A Rebound Emerges," The Commonwealth Fund and Phreesia. Data from from Phreesia's clients, which include more than 1,600 provider organizations representing more than 50,000 providers across all 50 states.

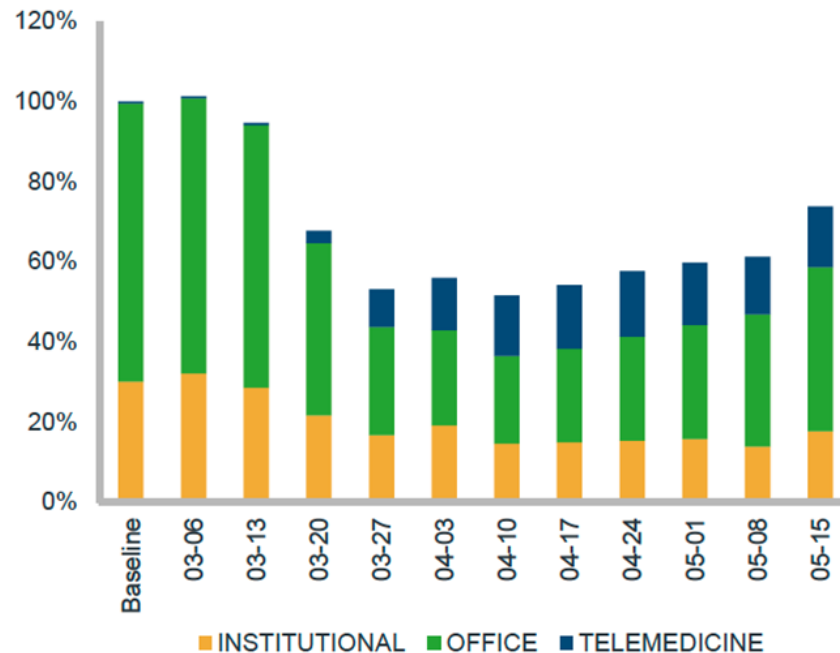
# Through mid-May, total telehealth claims have held steady even as some office-based care resumed.

Visit volume (all types) relative to January – February, 2020

**Total Telehealth Claims Through w/e 05-15 vs. Baseline**  
**Weekly Diagnosis Visits Through w/e 05-15 Compared to Baseline Period**



**Total Visit Claims by Service Type**  
**Baseline Period – W/E 05-15**



**Data for latest week date controlled against prior periods; estimates have been applied to reflect anticipated late-adjudicated claims based on historical rates**

Source: IQVIA: Medical Claims Data Analysis, 2020; Baseline = Average of TH visits for period W/E 1/10/2020-2/28/2020, Estimated amounts for latest 2 weeks applied based on likely claims still to be received due to data latency or claim processing delays; See Appendix for further details

COVID-19 Market Impact - w/e May 15, 2020



# In the Northeast, telehealth increased from 0.07% of all claims to 11.1% from March 2019 to March 2020, compared to 7.5% in the U.S. overall.



## Monthly Telehealth Regional Tracker, Mar. 2020

Northeast: CT, ME, MA, NH, NJ, NY, PA, RI, VT



### Top Five Procedure Codes by Utilization, 2019 vs. 2020

In order from most to least common

Mar. 2019

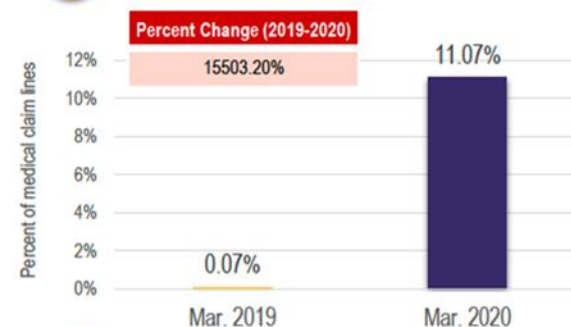
CPT®/HCPCS	DESCRIPTION
99201	NEW PATIENT OFFICE OR OTHER OUTPATIENT VISIT, TYPICALLY 10 MINUTES
99444*	PHYSICIAN OR HEALTHCARE PROFESSIONAL EVALUATION AND MANAGEMENT OF PATIENT CARE BY INTERNET (EMAIL) RELATED TO VISIT WITHIN PREVIOUS 7 DAYS
90834	PSYCHOTHERAPY, 45 MINUTES
99213	ESTABLISHED PATIENT OFFICE OR OTHER OUTPATIENT VISIT, TYPICALLY 15 MINUTES
99441	PHYSICIAN TELEPHONE PATIENT SERVICE, 5-10 MINUTES OF MEDICAL DISCUSSION

Mar. 2020

CPT®/HCPCS	DESCRIPTION
99213	ESTABLISHED PATIENT OFFICE OR OTHER OUTPATIENT VISIT, TYPICALLY 15 MINUTES
99214	ESTABLISHED PATIENT OFFICE OR OTHER OUTPATIENT VISIT, TYPICALLY 25 MINUTES
90837	PSYCHOTHERAPY, 60 MINUTES
90834	PSYCHOTHERAPY, 45 MINUTES
99442	PHYSICIAN TELEPHONE PATIENT SERVICE, 11-20 MINUTES OF MEDICAL DISCUSSION

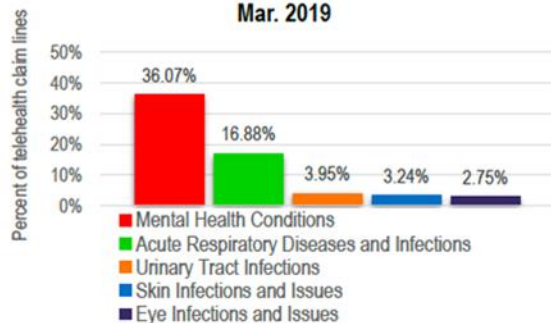


### Volume of Claim Lines, 2019 vs. 2020

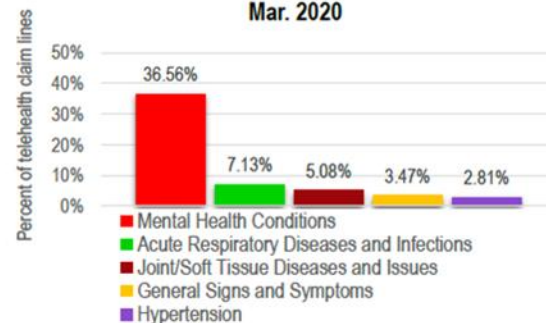


### Top Five Diagnoses, 2019 vs. 2020

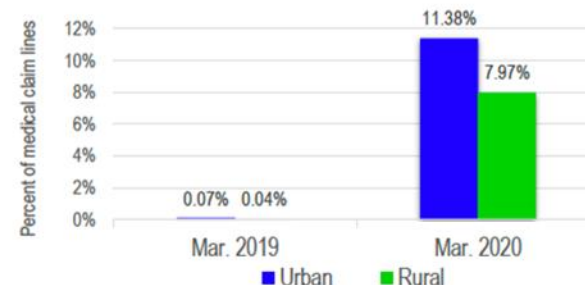
Mar. 2019



Mar. 2020



### Urban vs. Rural Usage, 2019 vs. 2020



\* Code deleted at the end of 2019.

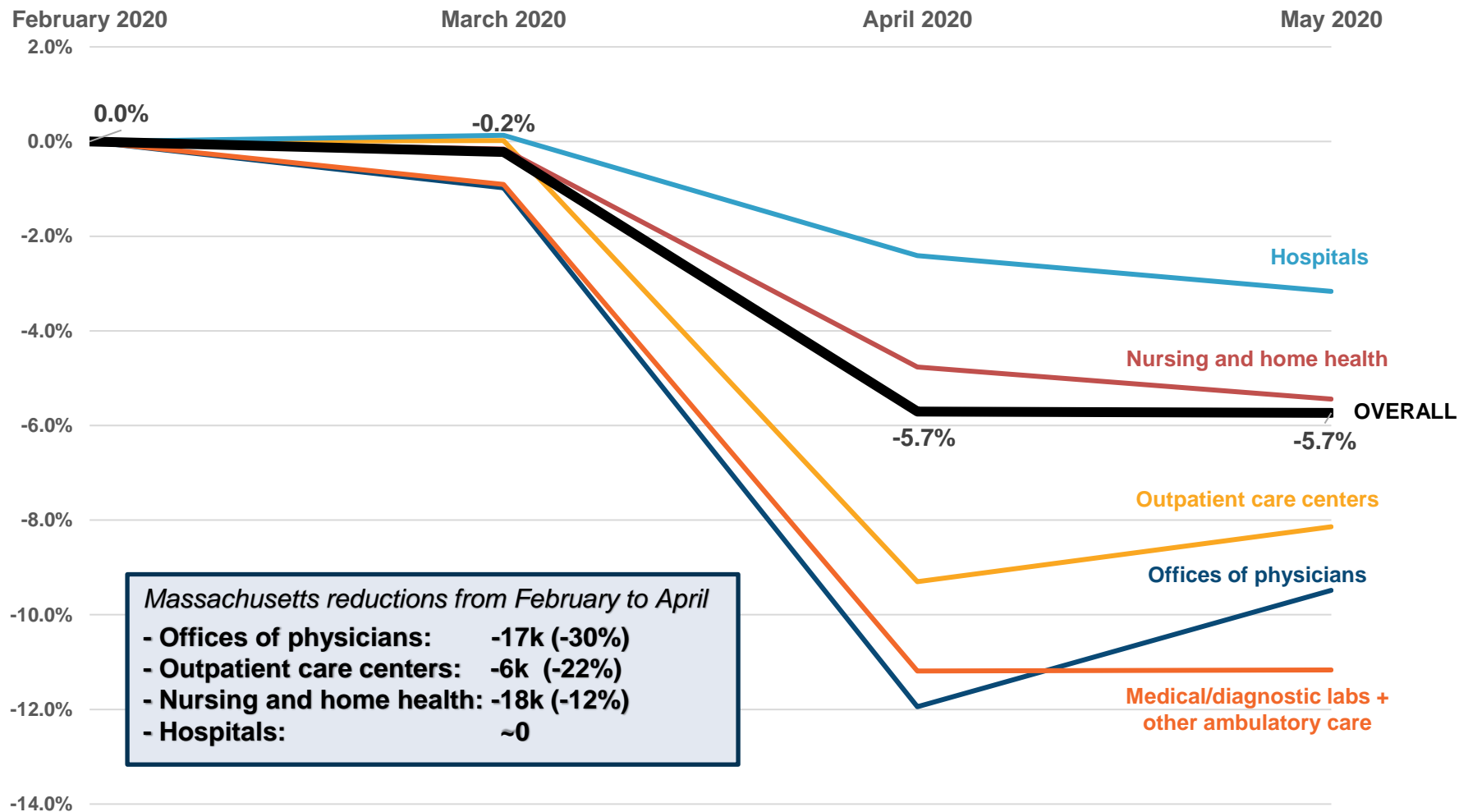
Source: FH NPIC® database of more than 31 billion privately billed medical and dental claim records from more than 60 contributors nationwide. Copyright 2020, FAIR Health, Inc. All rights reserved. CPT © 2019 American Medical Association (AMA). All rights reserved.

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# Overall health care employment has dropped 6% nationally since February 2020, with some variation among sectors, but all declining.

Percent change in health care industry employment, by sector, February – May, 2020



Sources: BLS: Table B-1. Employees on nonfarm payrolls by industry sector and selected industry detail released on June 5, 2020 and May 8, 2020.

Notes: Overall and figure excludes office of dentists and other health practitioners. "Nursing and home health" includes employment numbers for nursing and residential care facilities and home health care services.

## Results of a new survey of Massachusetts providers suggest primary care practices are struggling financially.

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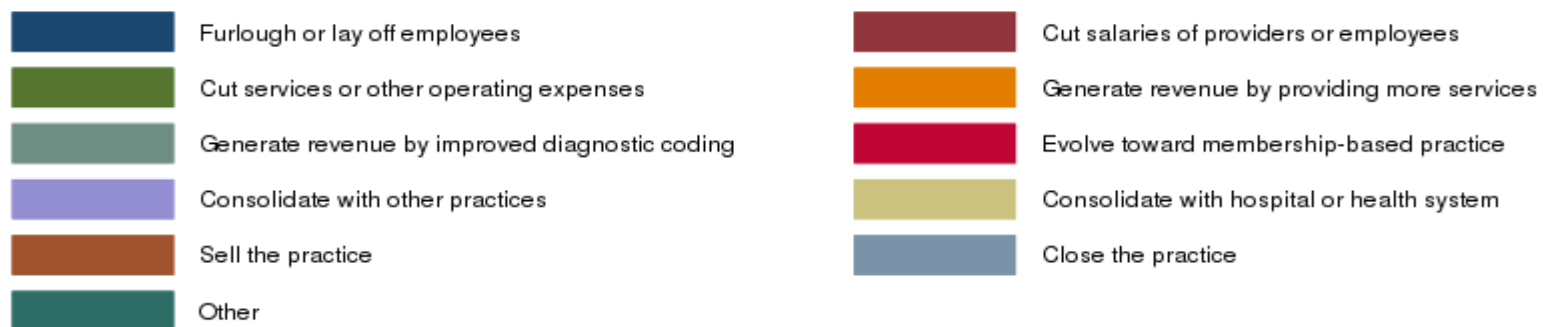
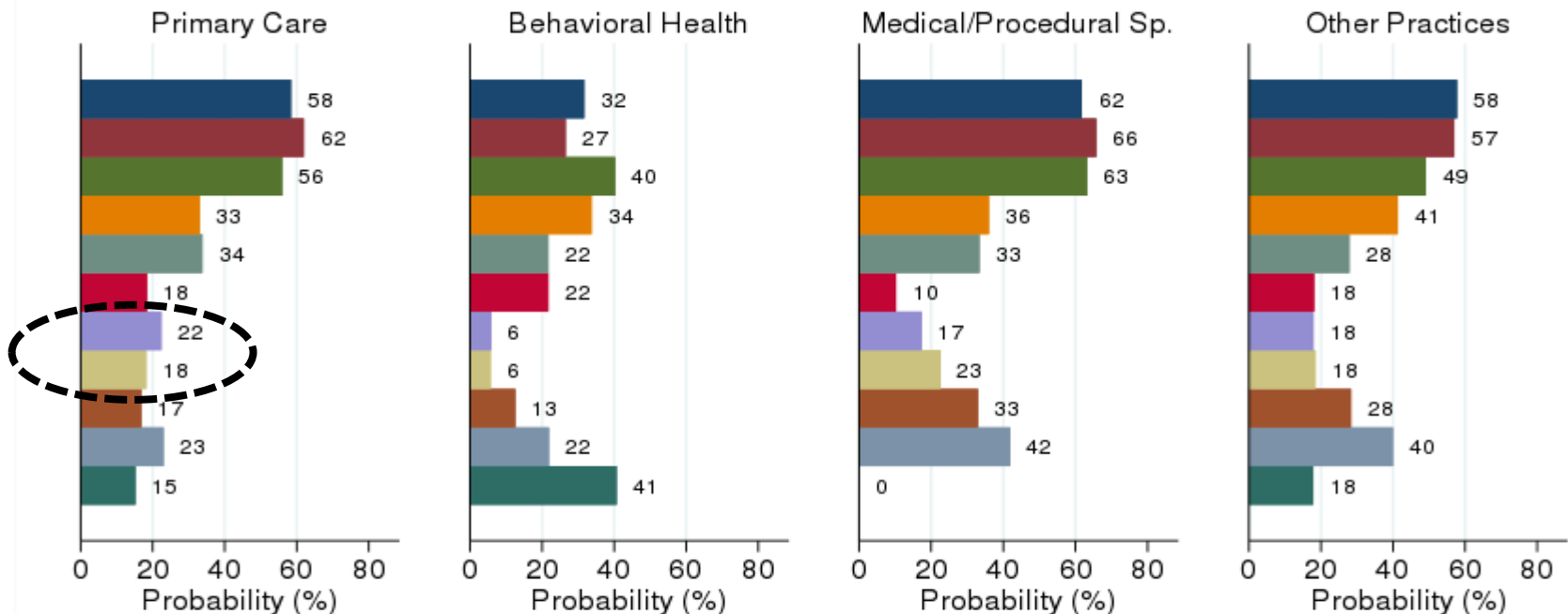
A research collaboration across faculty from the state's medical schools in conjunction with **HPC**, the **Massachusetts Chapter of the American College of Physicians**, and other **academic partners** produced a targeted survey of provider practices from late May to early June 2020 on the impacts of COVID-19.

- Responses from more than 400 practices across all provider types
- Practice-level results are weighted, where appropriate, by provider FTE
- Convenience sample – not necessarily representative

*NOTE: Results are preliminary*

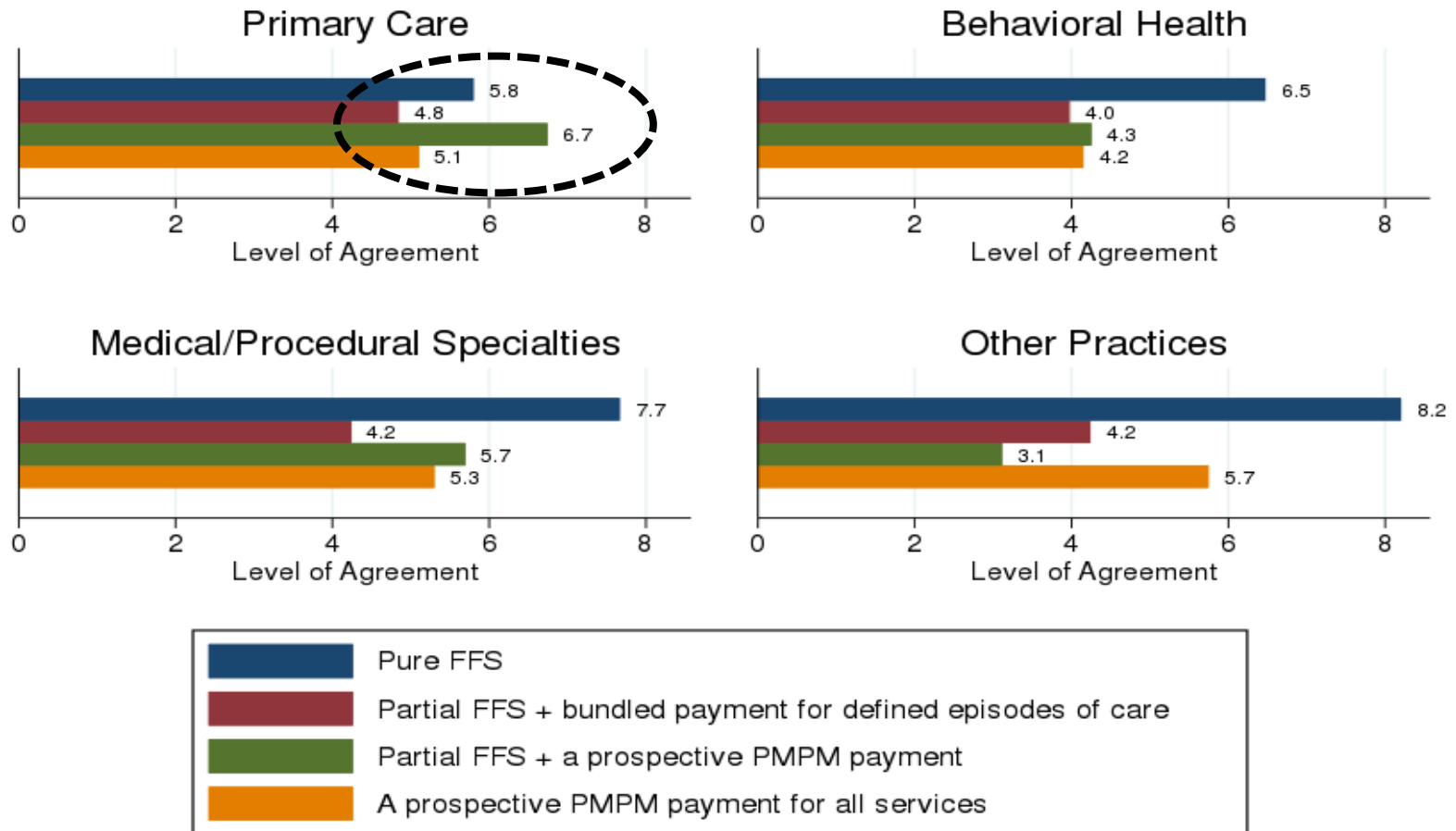
## Primary care practices are considering a range of potential responses, including furloughs, salary or service cuts, and increased consolidation.

*Of all practices, % that checked each response (multiple responses allowed). PRELIMINARY RESULTS*



## Many primary care practices report an interest and preference for a partial capitation payment system going forward.

*Of all practices, subjective favorability of each payment method. DATA ARE PRELIMINARY*



Notes: FFS = fee-for-service, PMPM = per-member-per-month.  
Values are weighted by the pre-COVID practice size.

Several estimates suggest a significant dampening of spending for calendar year 2020 (relative to 2019).

### Decrease in spending from reduction in *non-COVID-19* care

- **-4 to -22%** (Milliman Actuarial Consulting)
  - *Largest magnitude for Commercial*
  - *Smallest magnitude for Medicaid*
- **-12%** (implied) (Kronick, May 2020 Health Affairs blog)



### Increase in spending due to COVID-19 Care

- **1.6 to 2.7%** (Milliman)
- **1.0 to 1.6%** (Kronick)



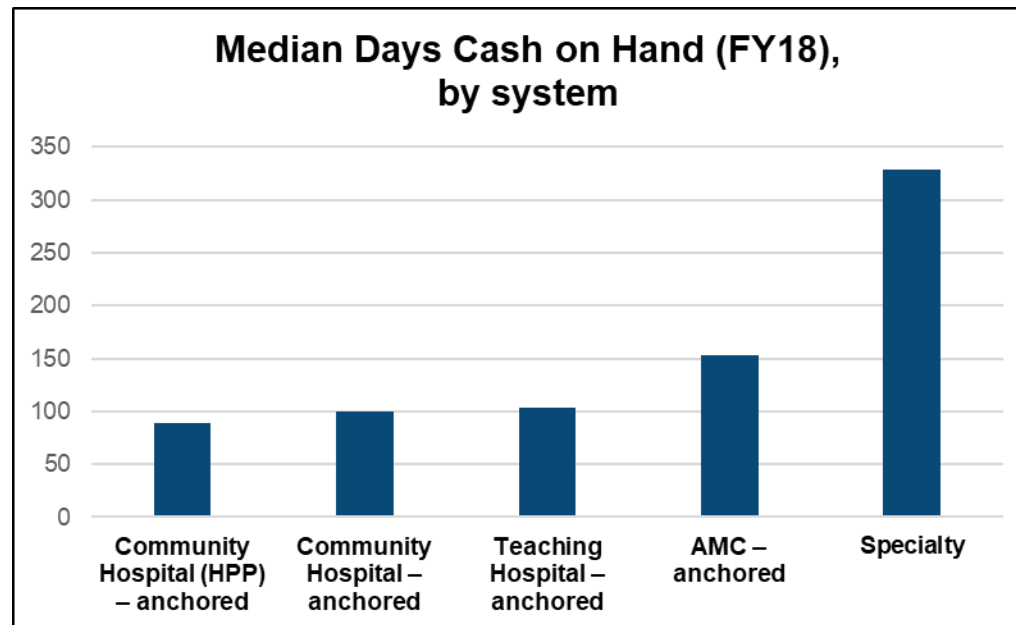
The HPC applied estimates in the midpoint of this range to industry reports of spending impacts by category of care to estimate annualized impacts by provider organization type.

## Results of Simulated Effects on Massachusetts Providers and Total Spending for Calendar Year 2020

Relatively **larger** impacts expected for:

- **Community Hospitals**

- Generally rely on a greater share of revenue is from outpatient care, which has a larger reduction
- On average, community hospitals were in a more difficult financial position pre-COVID



- **Physician-led Organizations and Community Health Centers**

- Less inpatient revenue to offset reductions in non-COVID care elsewhere

## Board Discussion: HPC Policy Priorities and Workstreams for 2020

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The HPC can support the Commonwealth with insights about the impact of the COVID-19 pandemic and inform policy efforts during and after the crisis.

Potential HPC work:

- Examine **differential impacts** on different types of provider organizations, for example:
  - Community hospitals and Academic Medical Centers (AMCs)
  - Physician practices, including primary care practices
  - Community Health Centers
- Model impact of potential **market structure changes**, including consolidation pressures resulting from COVID-19
- Evaluate the impact of **temporary** changes in practice and policy (e.g., expansion of telehealth, expanded scope of practice, setting of out-of-network benchmarks, reduction in unnecessary or low-value care, reduction in administrative complexity) and make policy recommendations to **sustain positive changes**
- Explore, with other public and private partners, new/revised payment models for **primary care, behavioral health care, and hospitals** that can provide necessary revenue, while still incentivizing efficient and innovative care delivery
- Evaluate **health system and workforce capacity** to support health planning for potential future infection waves or pandemics
- Target **innovative investments** to foster resiliency within the health care system and communities most impacted by the COVID-19 pandemic and resulting health, social, and economic disruptions (e.g., MassUP)



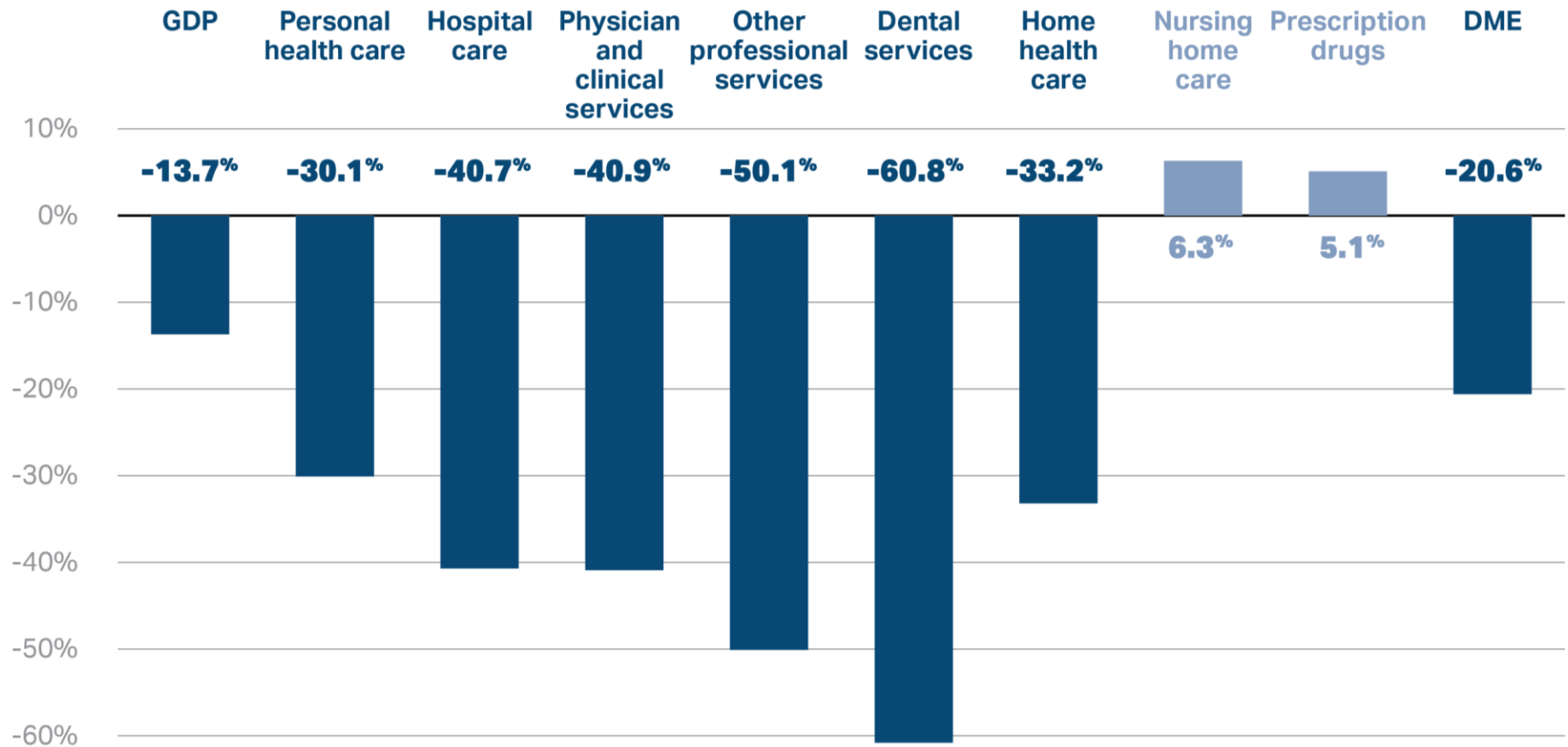
## Summary: Updated Findings of the Impact of COVID-19 on Health Care

As the COVID-19 pandemic produces unique challenges to the Massachusetts health care system, the HPC is leveraging its **data assets, research expertise, investment experience, and market knowledge** to support policy efforts during and after the crisis. A [compendium](#) of industry reports on utilization trends and other COVID-related findings may be found on the HPC's website.

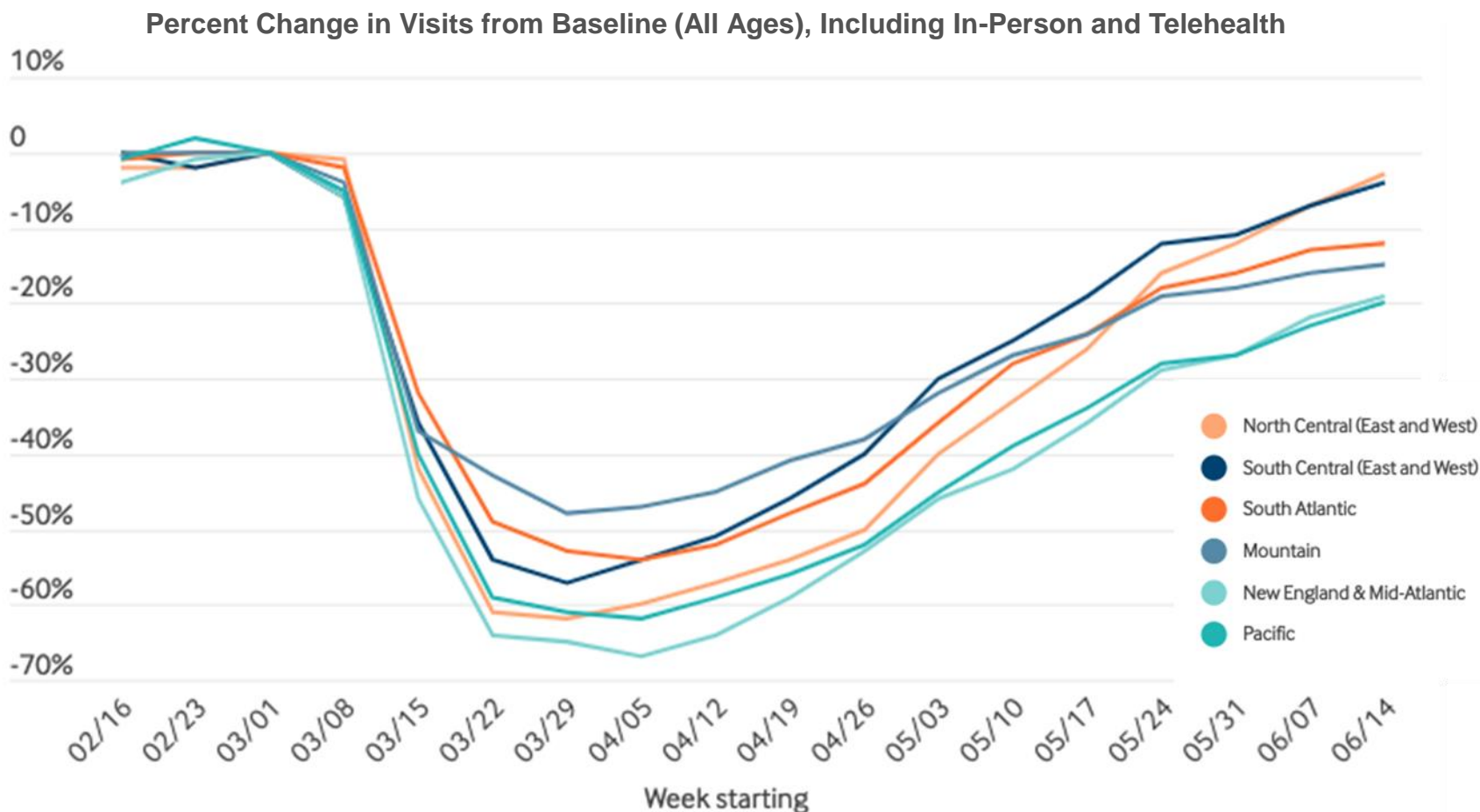
- Health care spending dropped 30% in April. Overall health care spending in 2020 is still on track to be approximately 10% **lower** than in 2019.
- Health care spending dropped **faster** than the overall economy in April (30% vs. 14%), but health care employment dropped **slower** than overall employment (6% vs. 12%).
- Most Massachusetts hospitals had **negative margins** in the first quarter of 2020.
- One national for-profit health plan that operates in Massachusetts reported a **doubling of net income** in April-June of 2020, driven by a 70% medical loss ratio (vs. 83% MLR in Q2, 2019)
- Independent primary care practices in Massachusetts are **much more likely to say they will close** versus hospital or health system-owned practices.
- Pediatric visits remain far below pre-pandemic levels while adult visits have **returned to baseline levels** as of mid-June when including telehealth.
- Telehealth visits have **declined by about a third** from their April peak as adult in-person visits have increased.

## Total health care spending in April 2020 was 30% less than the previous year, with substantial variation by category.

*Change in spending between April 2019 and April 2020*



## By mid-June, outpatient visits in the Northeast had returned to 80% of baseline levels when telehealth is included.

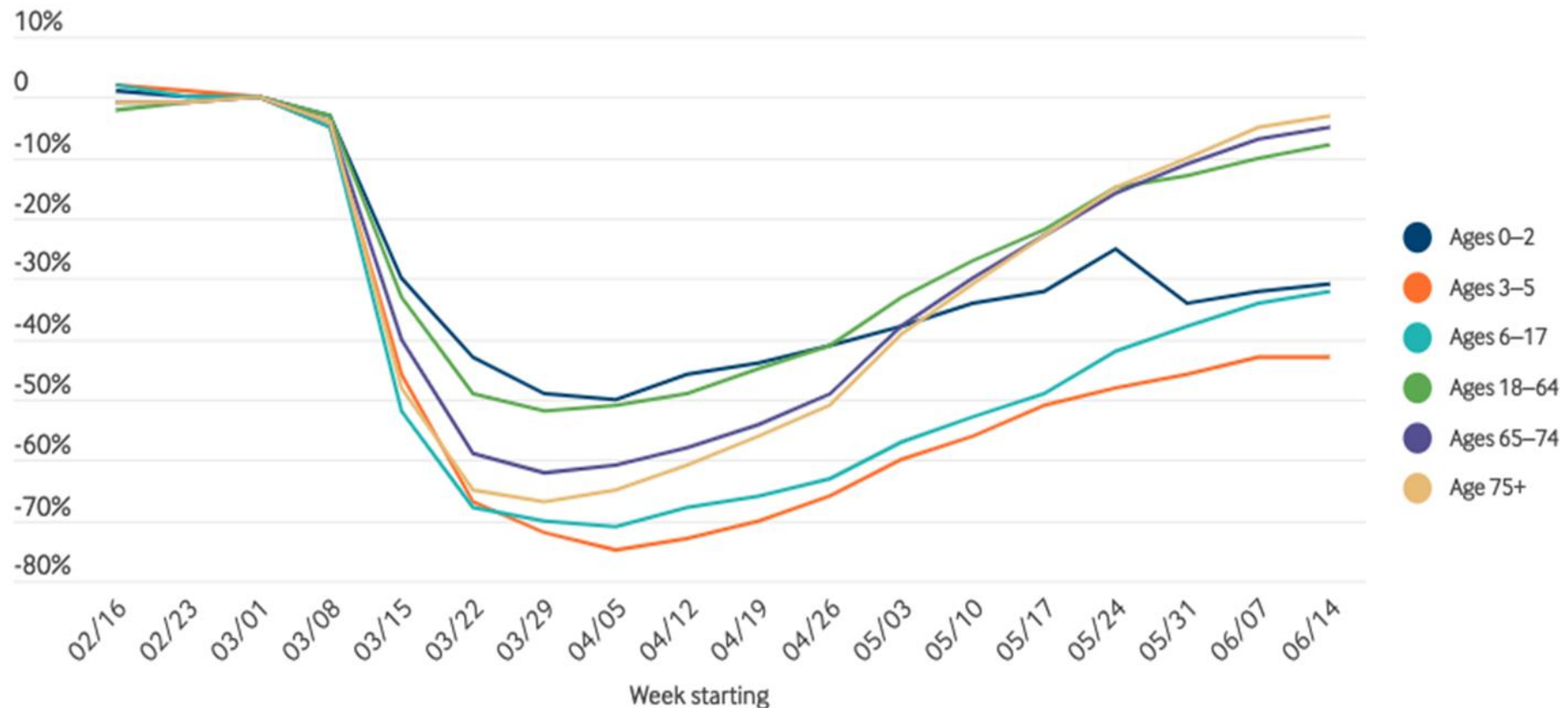


Data are presented as a percentage change in the number of visits in a given week from the baseline week (March 1–7). Distribution of states across U.S. census divisions is available at the [census website](https://www.census.gov).

Source: Ateev Mehrotra et al., *The Impact of the COVID-19 Pandemic on Outpatient Visits: Practices Are Adapting to the New Normal* (Commonwealth Fund, June 2020). <https://doi.org/10.26099/2v5t-9y63>

## Pediatric visits remain far below baseline levels while adult visits are approaching typical rates.

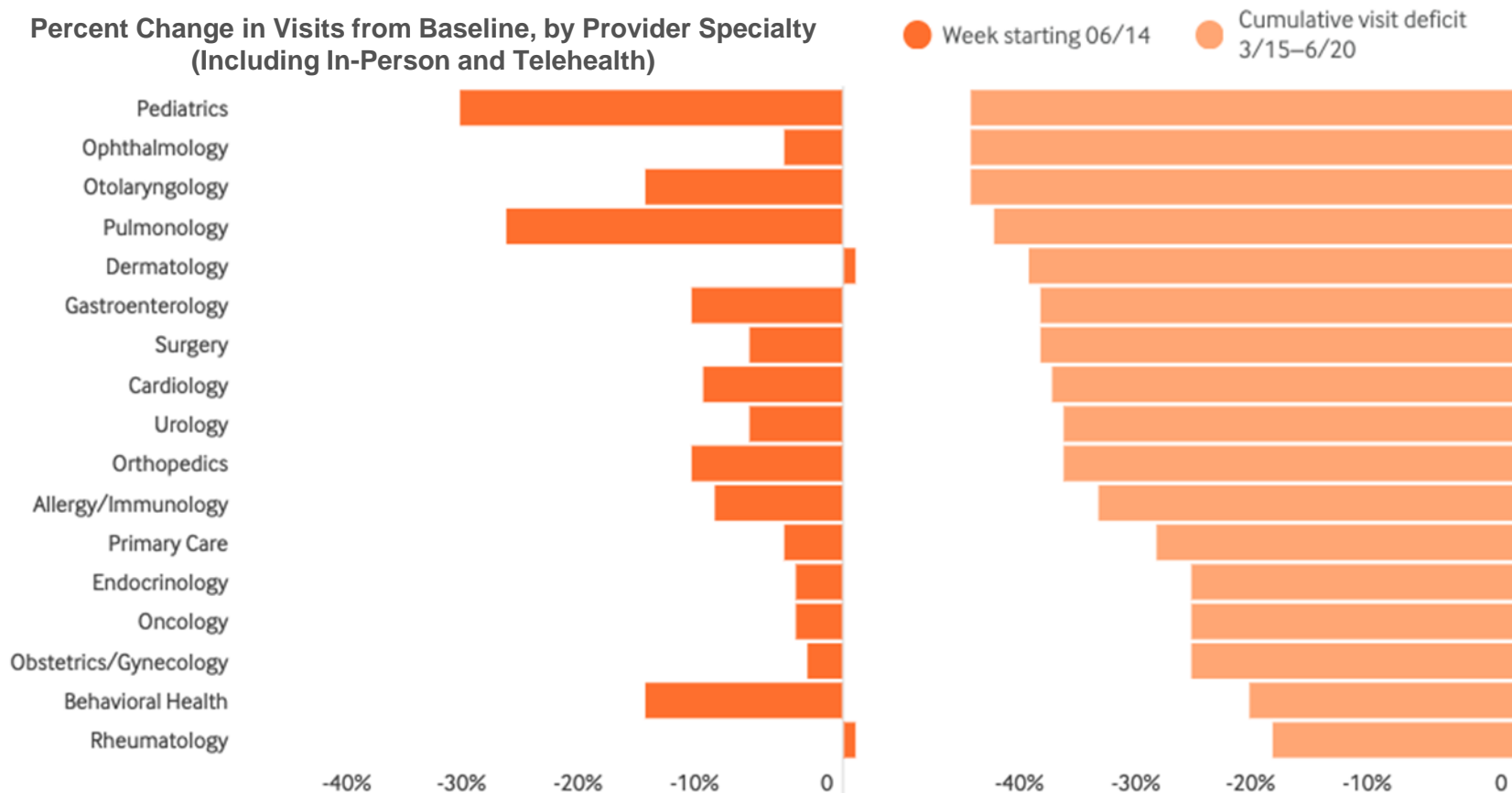
Percent Change in Visits from Baseline, Including In-Person and Telehealth



Data are presented as a percentage change in the number of visits of any type (in-person and telemedicine) in a given week from the baseline week (March 1–7).

Source: Ateev Mehrotra et al., *The Impact of the COVID-19 Pandemic on Outpatient Visits: Practices Are Adapting to the New Normal* (Commonwealth Fund, June 2020). <https://doi.org/10.26099/2v5t-9y63>

## Changes in visit volume vary by specialty.

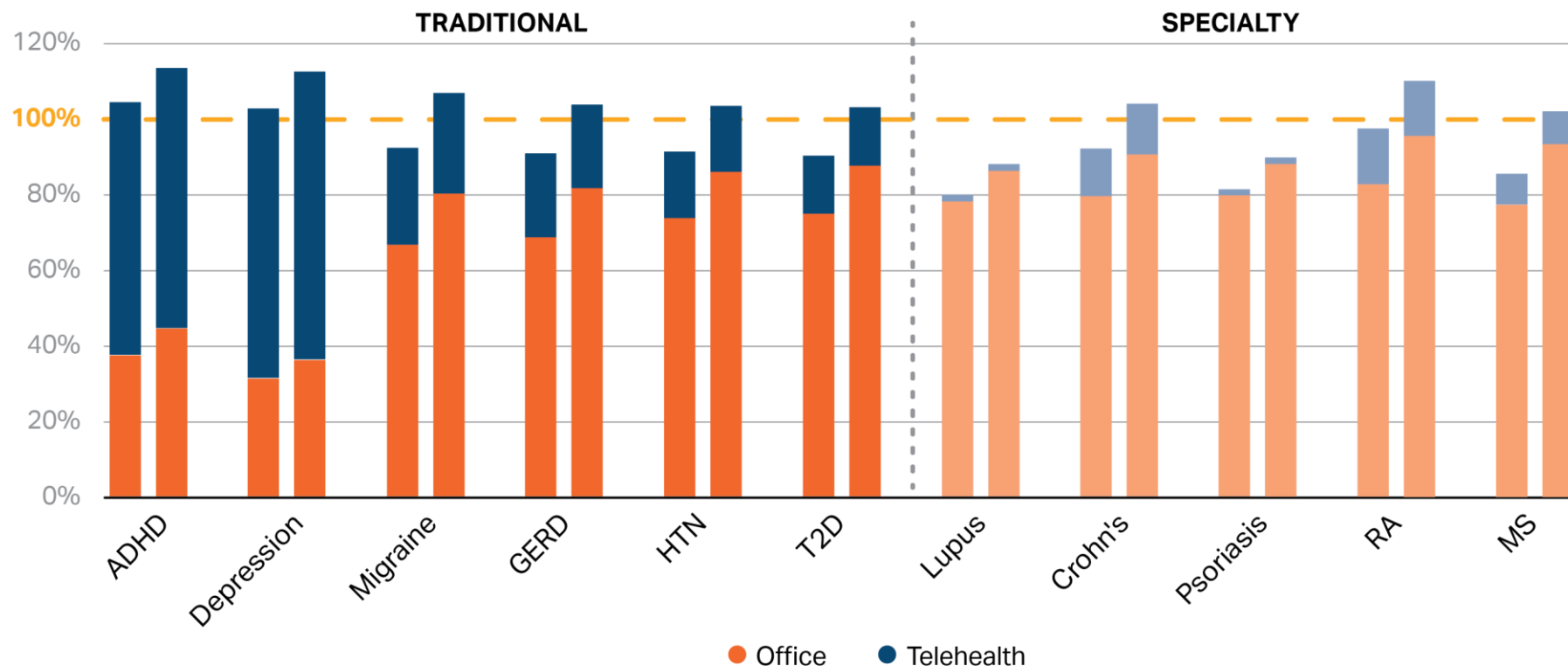


Data are only for select specialties shown. The decline shown is reflective of all visit types (in-person and telemedicine). Visits from nurse practitioners and physician assistants are not included.

Source: Ateev Mehrotra et al., *The Impact of the COVID-19 Pandemic on Outpatient Visits: Practices Are Adapting to the New Normal* (Commonwealth Fund, June 2020). <https://doi.org/10.26099/2v5t-9y63>

## As of mid-June, visits have returned to baseline levels for many conditions when telehealth is included.

Diagnosis visit growth W/E June 5 and June 12 vs. Baseline



**Data for latest week date controlled against prior periods; estimates have been applied to reflect anticipated late-adjudicated claims based on historical rates**

Source: IQVIA: Medical Claims Data Analysis, 2020; Baseline = Average of claims for period W/E 1/10/2020-2/28/2020, Estimated amounts for latest 2 weeks applied based on likely claims still to be received due to data latency or claim processing delays; See Appendix for further details

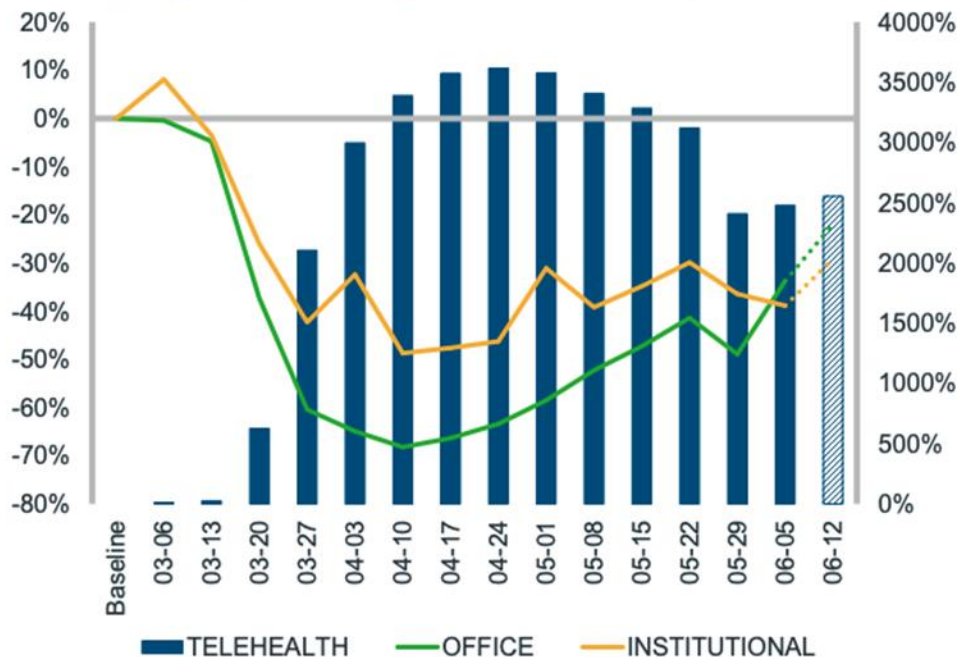
COVID-19 Market Impact - w/e June 12, 2020



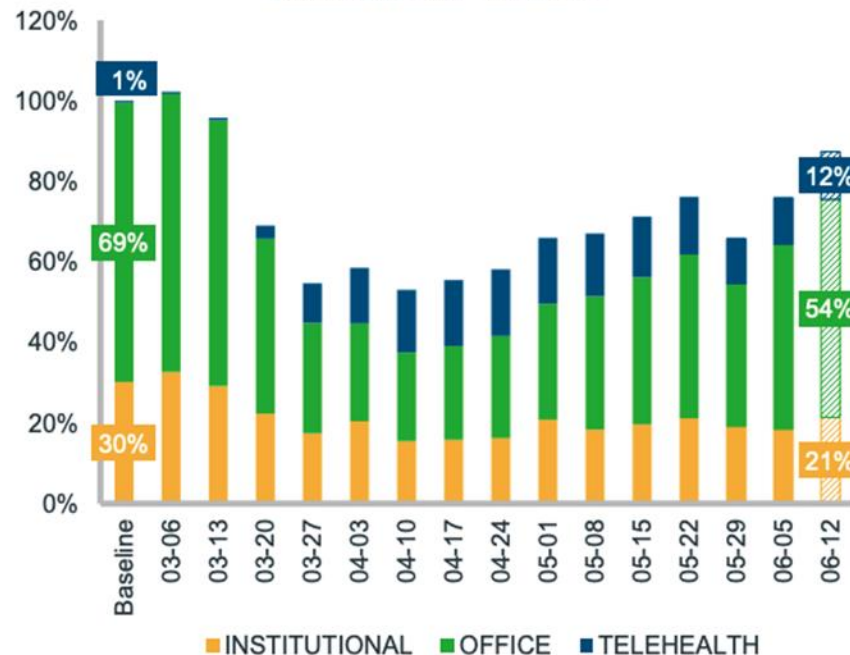


# Telehealth visits have declined from their peak in April, but remain far above the pre-pandemic baseline.

**Total Telehealth Claims Through W/E 06-12 vs. Baseline Period**  
**Weekly Diagnosis Visits Through W/E 06-12 Compared to Baseline Period**



**Total Visit Claims by Service Type**  
**Baseline Period – W/E 06-12**



**Data for latest week date controlled against prior periods; estimates have been applied to reflect anticipated late-adjudicated claims based on historical rates**

Source: IQVIA: Medical Claims Data Analysis, 2020; Baseline = Average of claims for period W/E 1/10/2020-2/28/2020. Estimated amounts for latest weeks applied based on likely claims still to be received due to data latency or claim processing delays; See Appendix for further details

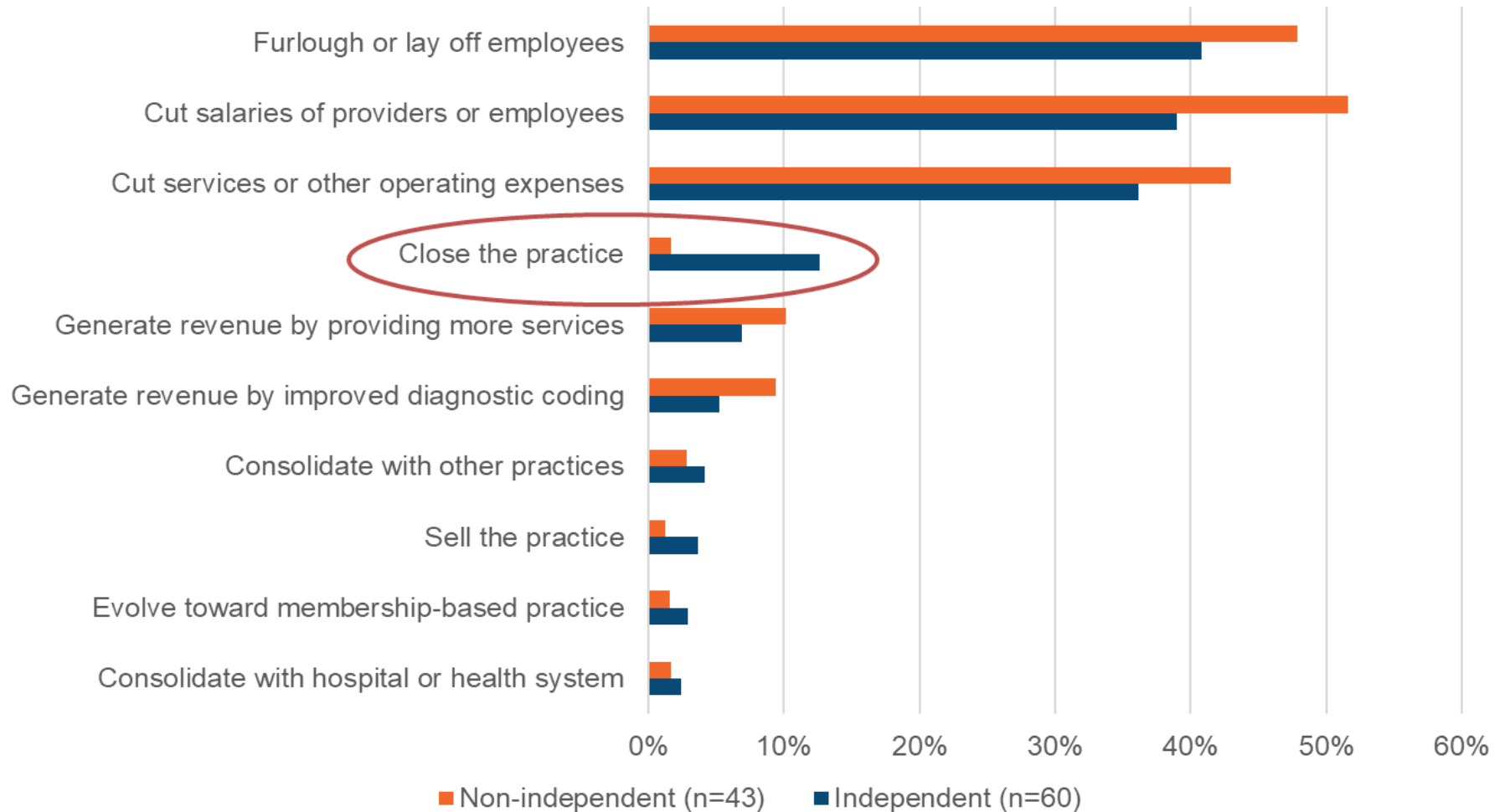
COVID-19 Market Impact - w/e June 12, 2020





# Massachusetts Practice Survey: Independent practices are more likely to say that they would close.

*Overall likelihood that practice would take each action*



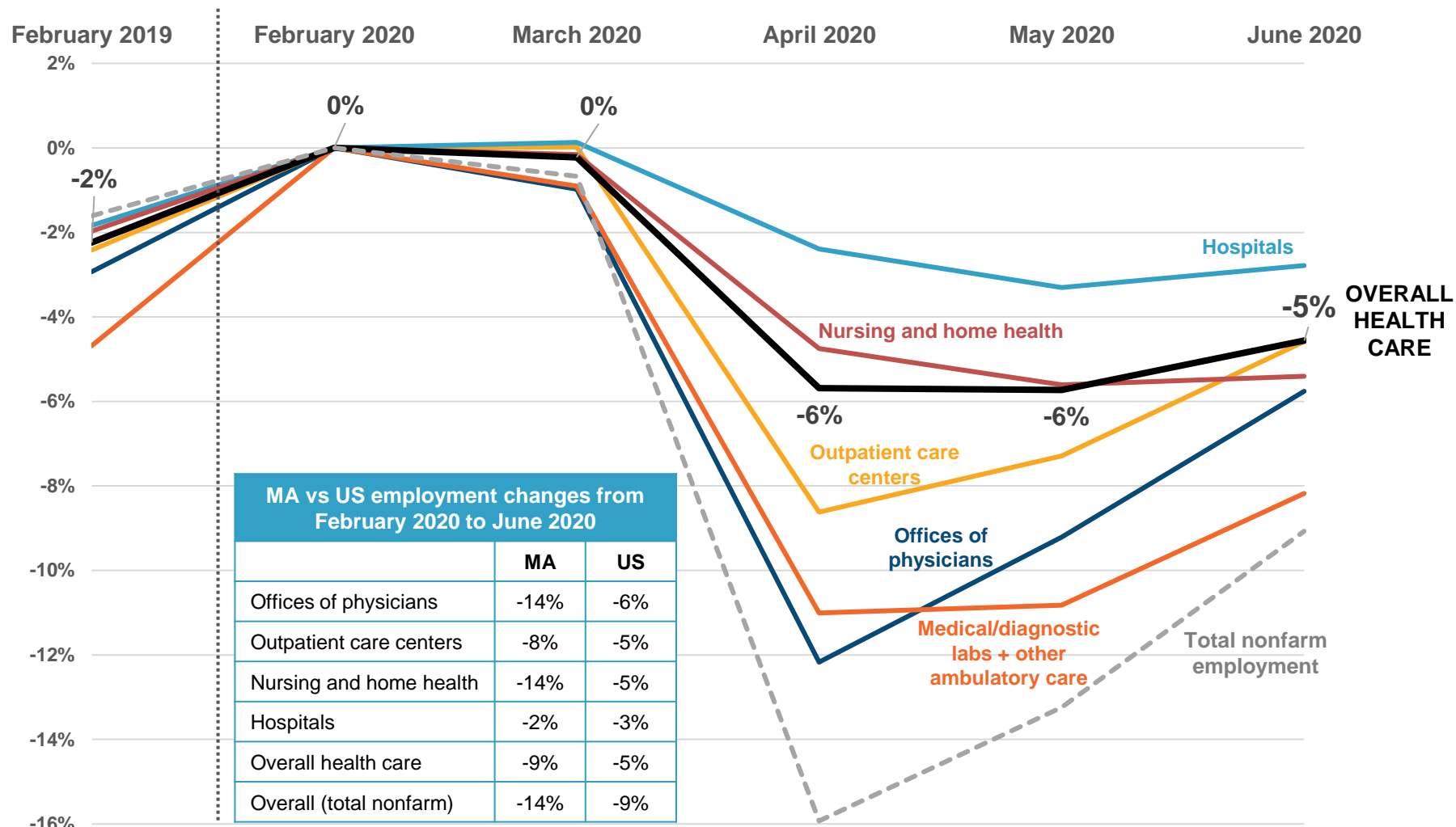
Notes: "Independent" in the survey meant owned by a hospital or health system

Zirui Song et al, "Economic and Clinical Impact of COVID-19 on Provider Practices in Massachusetts" Interim Results: May 20 – June 17, 2020.

<https://www.mass.gov/doc/economic-and-clinical-impact-of-covid-19-on-provider-practices-in-massachusetts/download>

## National health care employment remains 5% below February levels. Massachusetts saw a larger drop in physician office and nursing home/ home health employment.

Percent change in national health care industry employment, by sector, February 2019 – June 2020

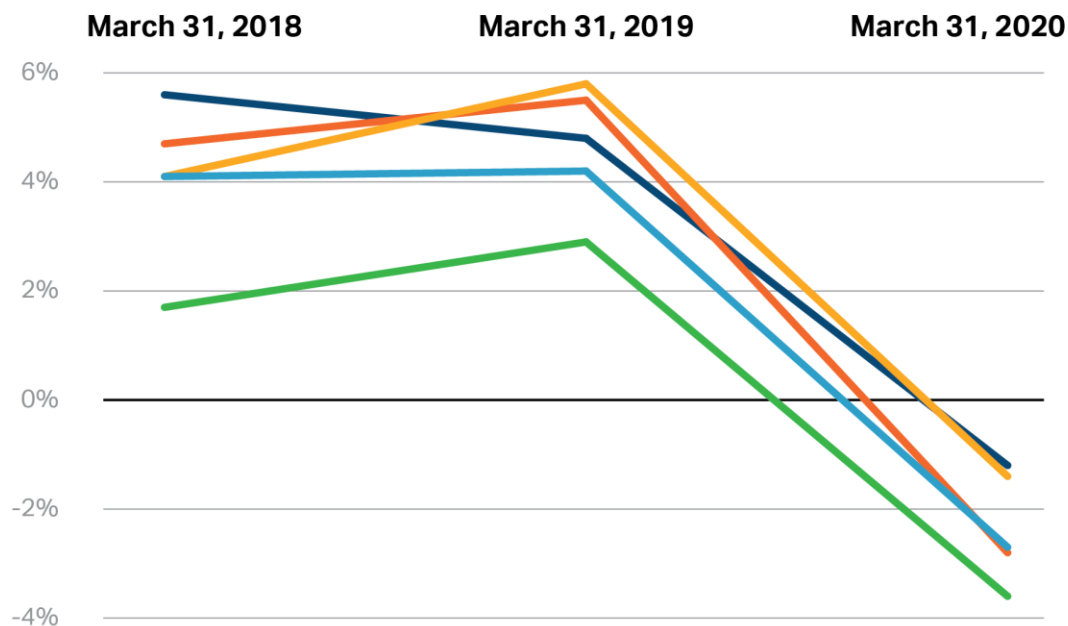


Sources: BLS: Table B-1. Employees on nonfarm payrolls by industry sector and selected industry detail released on July 2, 2020, June 5, 2020, May 8, 2020, and March 6, 2020.

Notes: \*Overall and figure excludes office of dentists and other health practitioners. "Nursing and home health" includes employment numbers for nursing and residential care facilities and home health care services.

## Massachusetts hospital margins were negative in Q1 of 2020 for all cohorts.

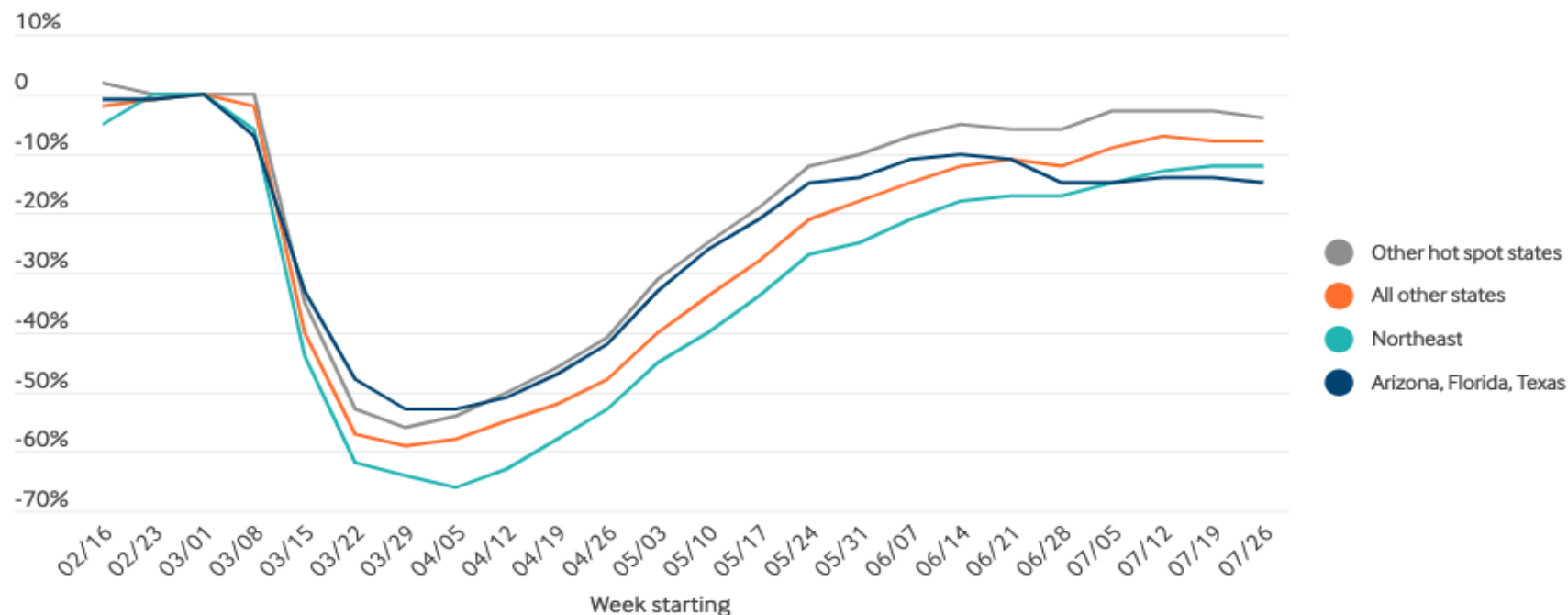
Total margin for Massachusetts hospitals for Q4 2019 and Q1 2020



	March 31, 2018	March 31, 2019	March 31, 2020
● Statewide Median	4.1%	4.2%	-2.7%
● AMC	4.1%	5.8%	-1.4%
● Teaching Hospital	4.7%	5.5%	-2.8%
● Community Hospital	1.7%	2.9%	-3.6%
● Community-HPP	5.6%	4.8%	-1.2%

## By the end of July, outpatient visits in the Northeast had stabilized at 10% below baseline. Regional spikes in COVID-19 cases depressed visits in those areas.

Percent change in visits from baseline: visit counts include telehealth



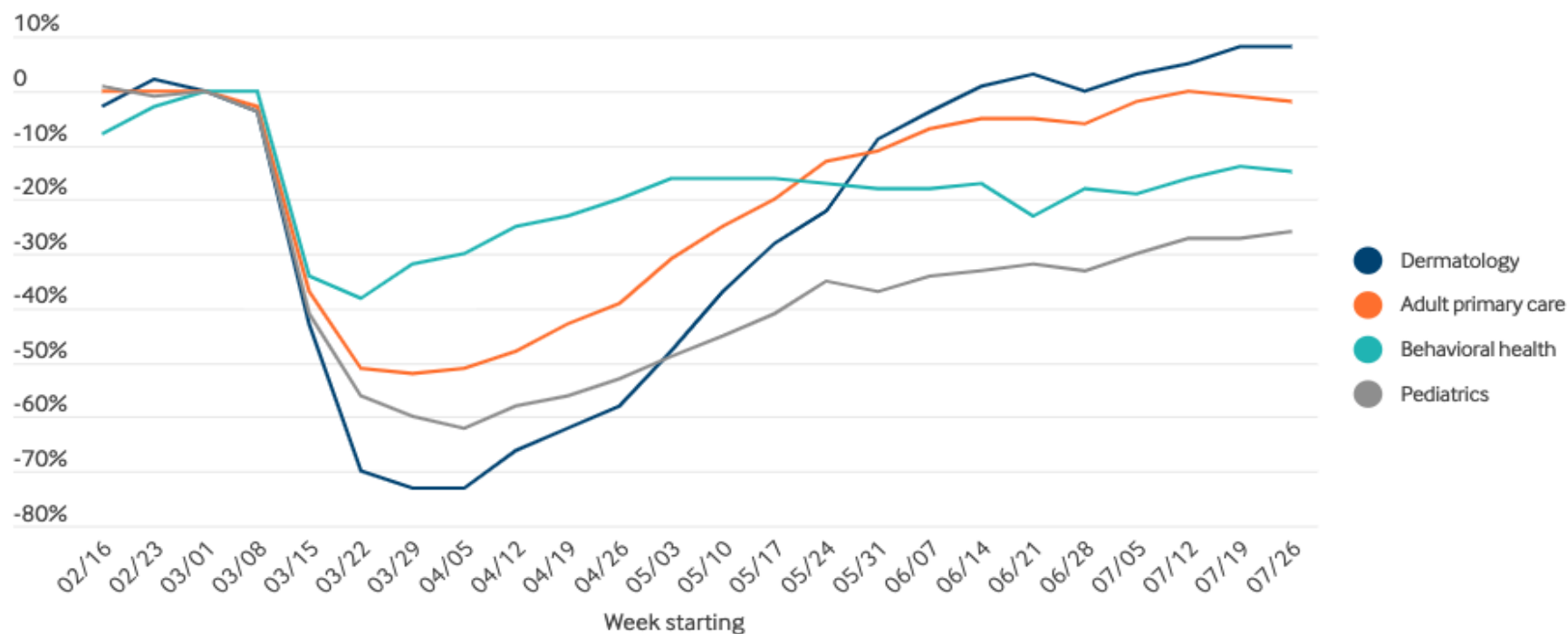
Download data

Data are presented as a percentage change in the number of visits in a given week from the baseline week (March 1–7). Hot spot states were the top 10 states in terms of new cases per capita in the weeks of June 28th and July 4th, according to data from the *New York Times*. These hot spots were divided into two groups: 1) Arizona, Florida, and Texas, which clearly had a different trajectory of visits, and 2) Alabama, Georgia, Idaho, Louisiana, Nevada, and South Carolina. The Northeast includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

Source: Ateev Mehrotra et al., *The Impact of the COVID-19 Pandemic on Outpatient Visits: Changing Patterns of Care in the Newest COVID-19 Hot Spots* (Commonwealth Fund, Aug. 2020). <https://doi.org/10.26099/yaqe-q550>

## Pediatric visits remain 25% below baseline. Behavioral health visits did not drop as dramatically, but remain 15% below baseline levels.

*Percent change in visits from baseline: visit counts include telehealth*



[Download data](#)

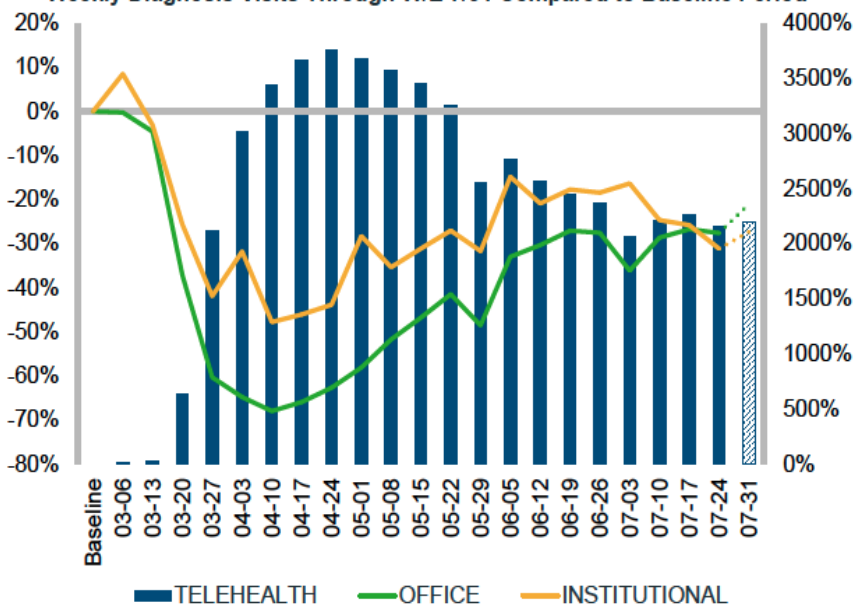
Data for only four specialty areas shown to illustrate the range of trajectories. The decline shown is reflective of all visit types (in-person and telemedicine). Visits from nurse practitioners and physician assistants are not included. Behavioral health includes psychiatrists, psychologists, and social workers. Urgent care center visits are not included in adult primary care or pediatrics.

Source: Ateev Mehrotra et al., *The Impact of the COVID-19 Pandemic on Outpatient Visits: Changing Patterns of Care in the Newest COVID-19 Hot Spots* (Commonwealth Fund, Aug. 2020). <https://doi.org/10.26099/yaqe-q550>

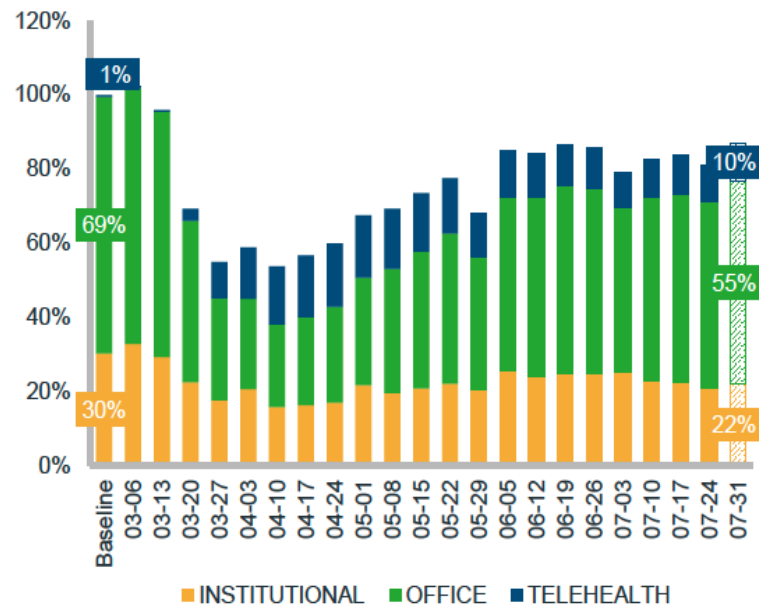
# Telehealth visits declined by about a third from their peak in April, and accounted for roughly 10% of visits by the end of July.

Changes in visits by telehealth/office/institutional relative to February baseline

**Total Telehealth Claims Through W/E 7/31 vs. Baseline Period**  
**Weekly Diagnosis Visits Through W/E 7/31 Compared to Baseline Period**



**Total Visit Claims by Service Type**  
**Baseline Period – W/E 7/31**



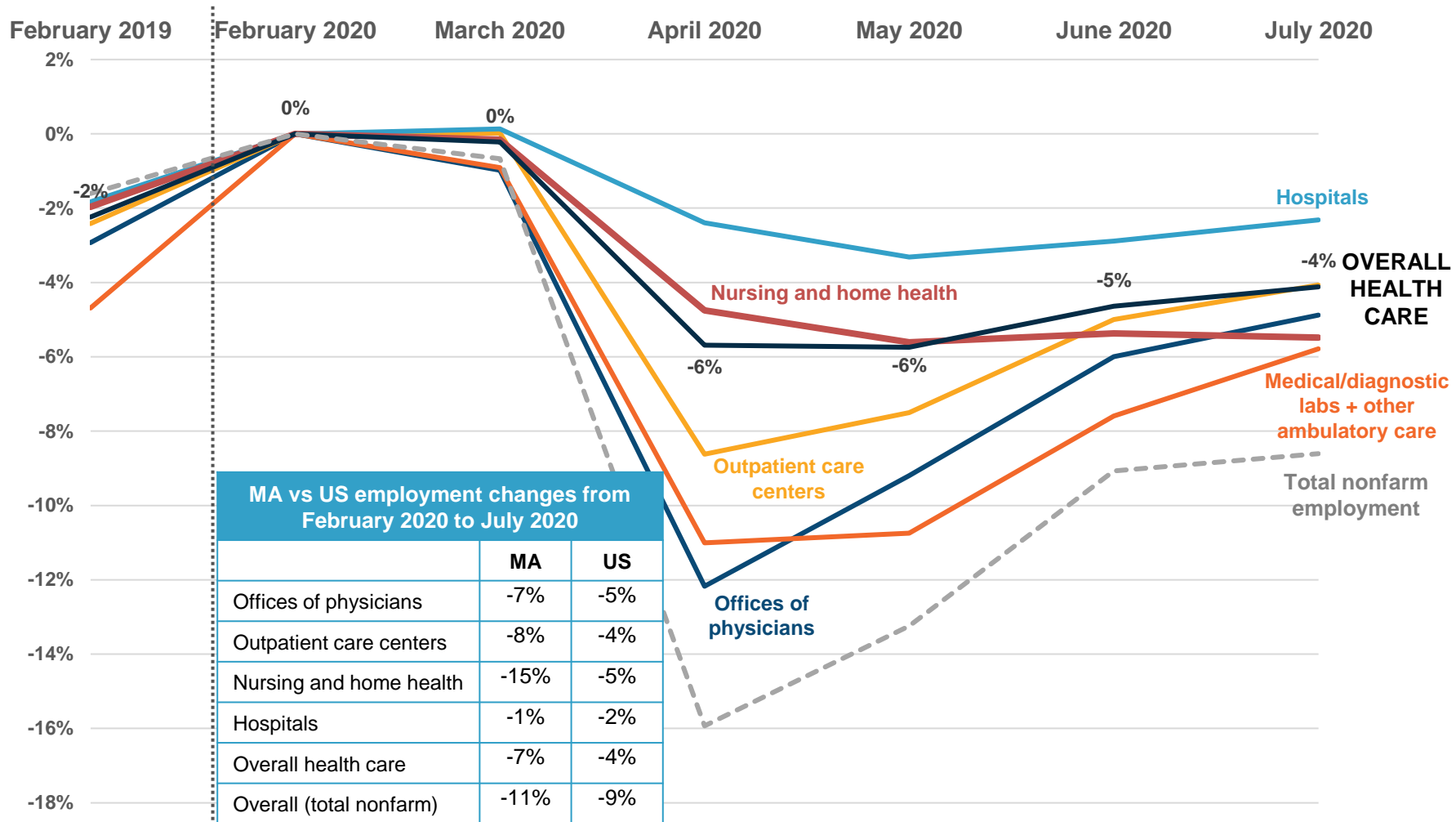
Data for latest week date controlled against prior periods; estimates have been applied to reflect anticipated late-adjudicated claims based on historical rates

Source: IQVIA: Medical Claims Data Analysis, 2020; Baseline = Average of claims for period W/E 1/10/2020-2/28/2020, Estimated amounts for latest weeks applied based on likely claims still to be received due to data latency or claim processing delays; See Appendix for further details

COVID-19 Market Impact - w/e July 31, 2020

**National health care employment remained 4% below February levels, with variation by sector. Physician office employment dropped more in Massachusetts than nationally; hospital employment dropped less.**

*Percent change in national health care industry employment, by sector, February 2019 – July 2020*



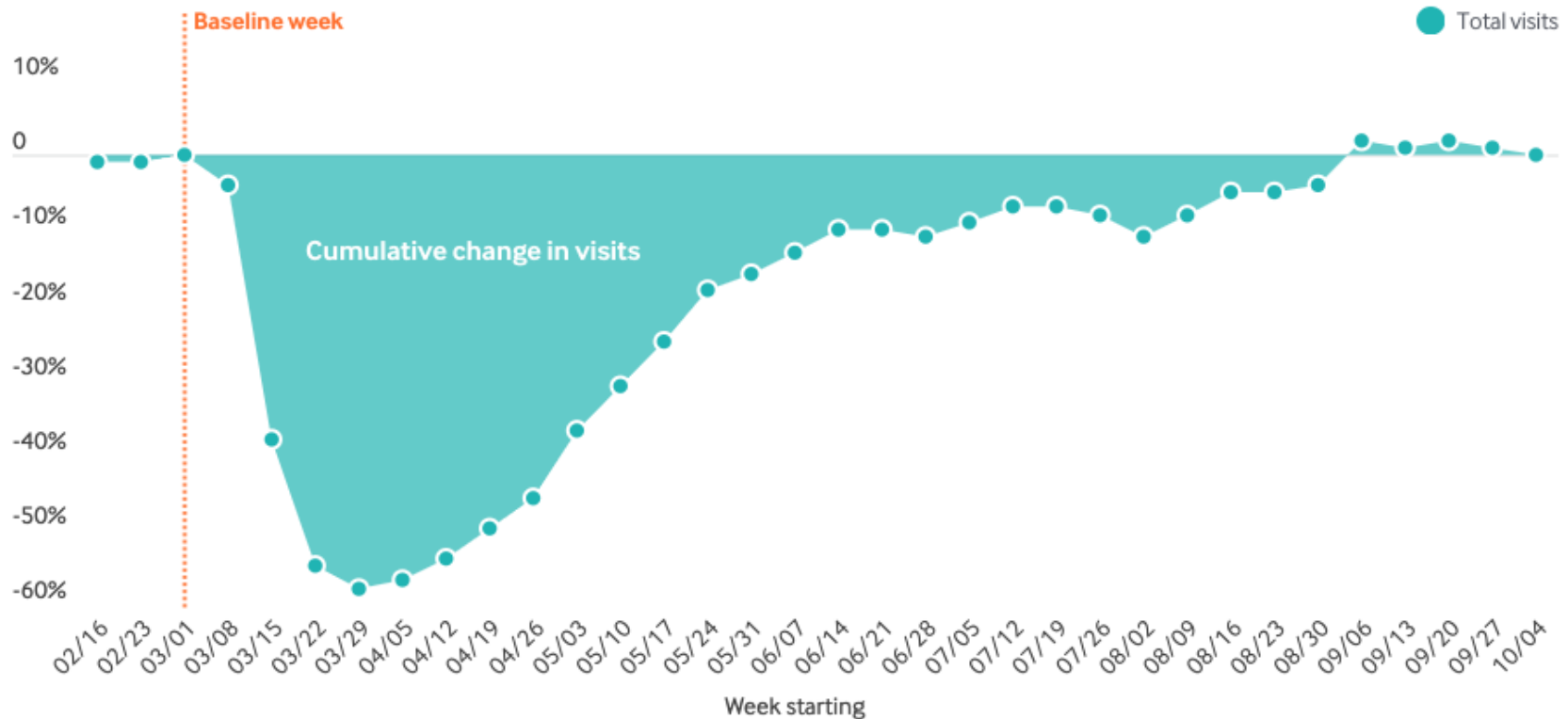
Sources: BLS: Table B-1. Employees on nonfarm payrolls by industry sector and selected industry detail released on July 2, 2020, June 5, 2020, May 8, 2020, and March 6, 2020.

Notes: \*Overall and figure excludes office of dentists and other health practitioners. "Nursing and home health" includes employment numbers for nursing and residential care facilities and home health care services.



## The COVID-19 pandemic led to dramatic drops in health care use nationwide. By October, total outpatient visits returned to baseline levels.

Percent change in outpatient visits from baseline: visit counts include telehealth



Note: Data are presented as a percentage change in the number of visits in a given week from the baseline week (March 1–7).

Source: Ateev Mehrotra et al., *The Impact of the COVID-19 Pandemic on Outpatient Care: Visits Return to Prepandemic Levels, but Not for All Providers and Patients* (Commonwealth Fund, Oct. 2020). <https://doi.org/10.26099/41xy-9m57>

## The rebound in visits has been stronger for larger physician practices, due in part to their ability to make greater use of telehealth.

Percent change in visits from baseline: visit counts include telehealth

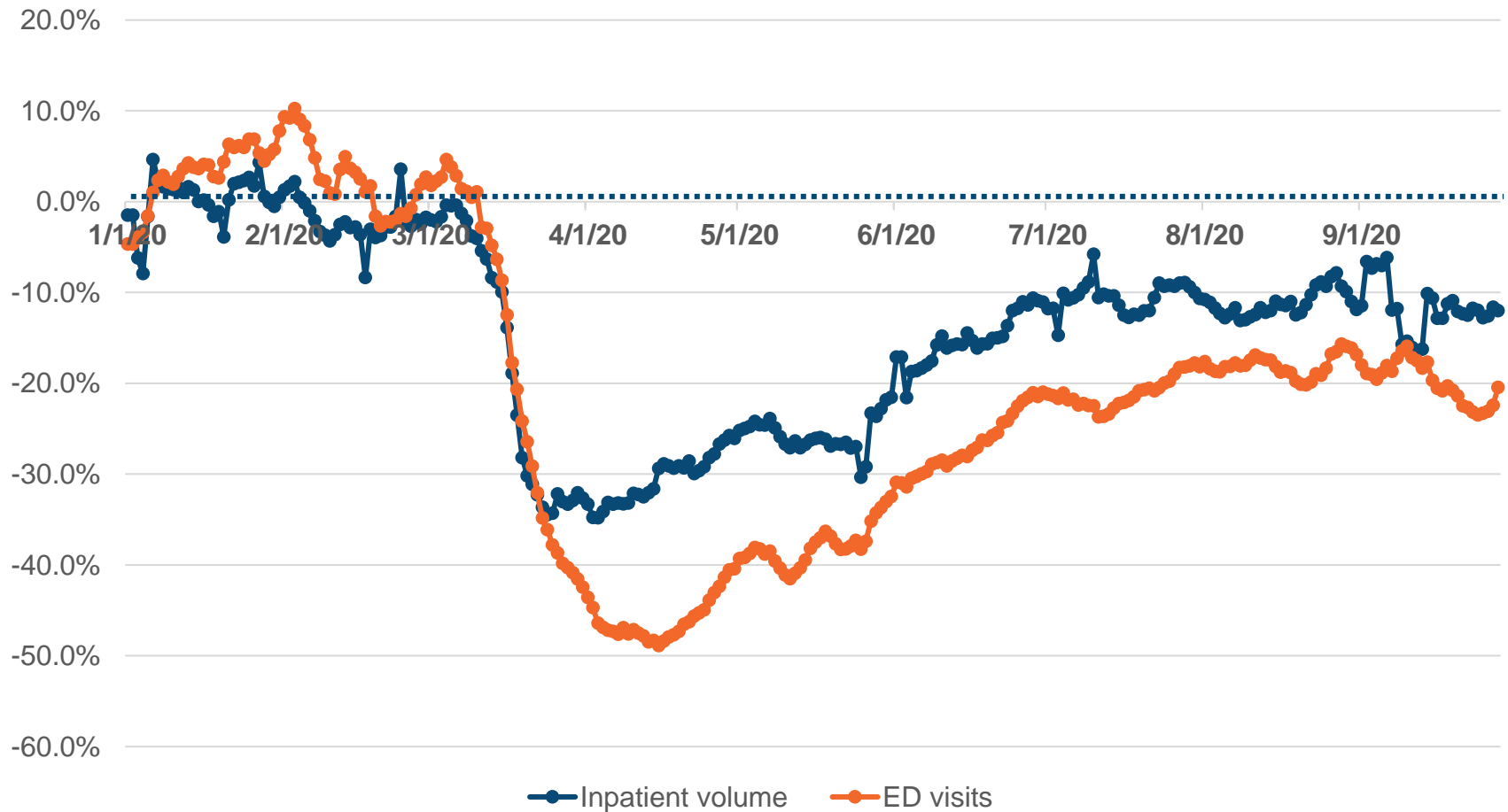


Data are presented as a percentage change in the number of visits in a given week from the baseline week (March 1–7). The size of the provider organization is based on the total number of providers of any specialty. We show data only for adult primary care providers to demonstrate that there is variation even within a given specialty.

Source: Ateev Mehrotra et al., *The Impact of the COVID-19 Pandemic on Outpatient Care: Visits Return to Prepandemic Levels, but Not for All Providers and Patients* (Commonwealth Fund, Oct. 2020). <https://doi.org/10.26099/41xy-9m57>

## ED and inpatient visits in Massachusetts also dropped dramatically due to COVID-19, with both remaining below 2019 levels through September 2020.

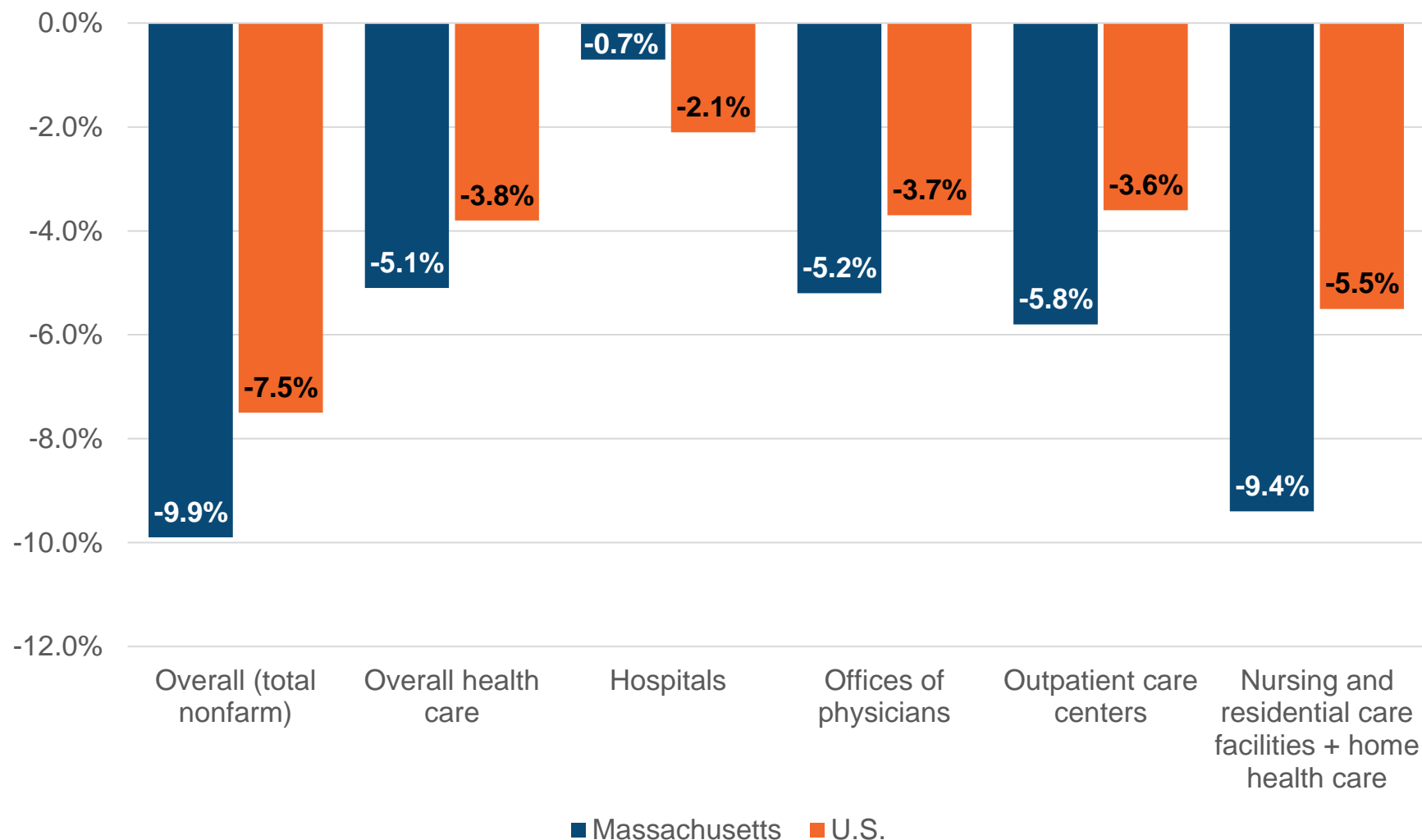
7-day average ED and inpatient visits relative to one year prior to the date shown



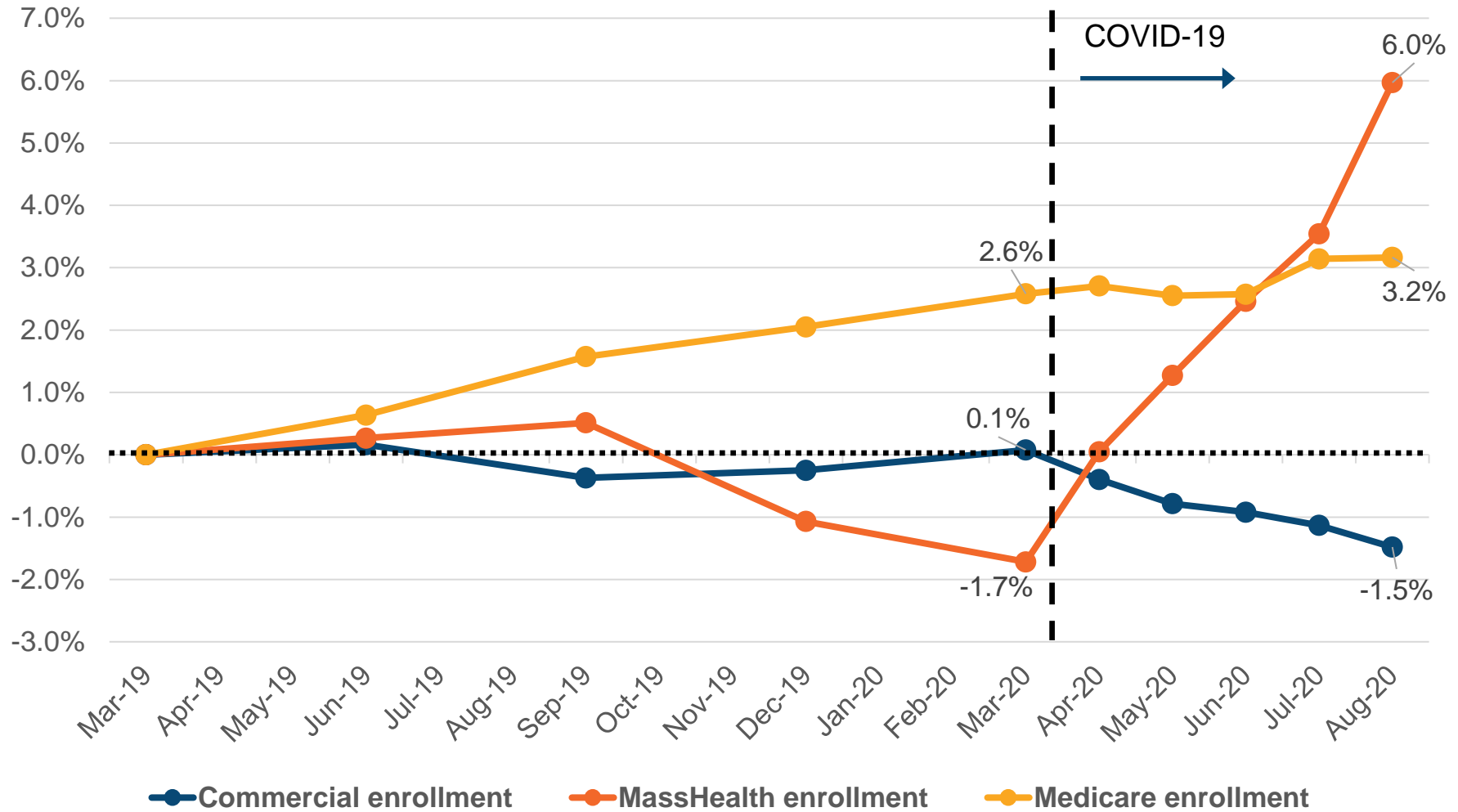
The data for this analysis was supplied by [Collective Medical](#), a care coordination software company based in Utah. Collective Medical offers a data-aggregation, analytics, and care collaboration platform that links hospitals, health plans, outpatient providers for real-time identification and support of high-risk individuals as they move across the care continuum. The platform links to hospital operations and electronic medical records systems as well as other provider and health plan systems.

## The drop in health care employment in Massachusetts has been larger than in the U.S., except for hospital employment.

*Employment by sector in August 2020 relative to February 2020; Massachusetts and the U.S. overall.*

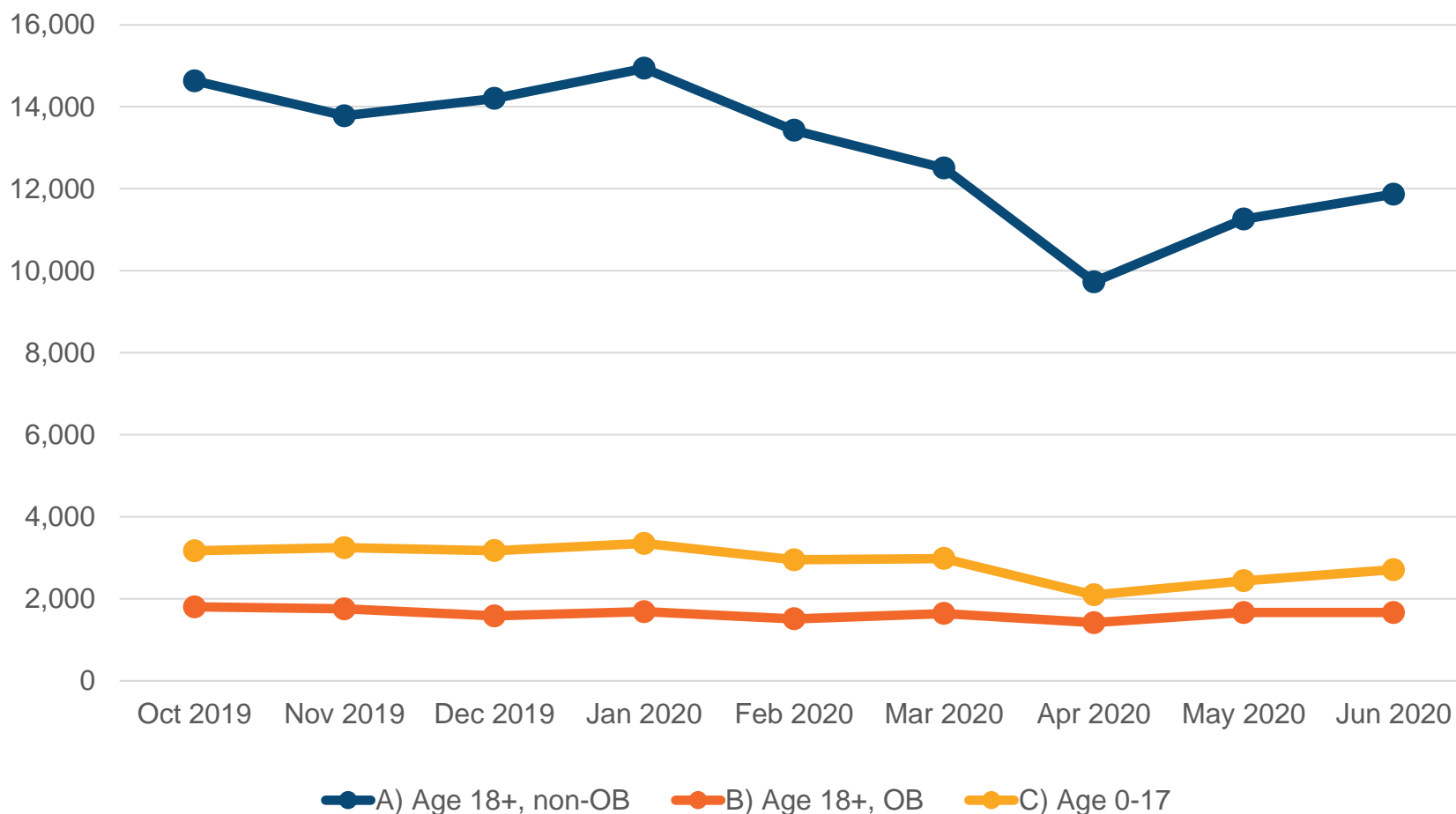


**Since March 2020, MassHealth enrollment has increased 7.8% while commercial enrollment has declined 1.6%.**



## Hospital discharges in Massachusetts dropped by nearly one third in April 2020, except for OB-related discharges.

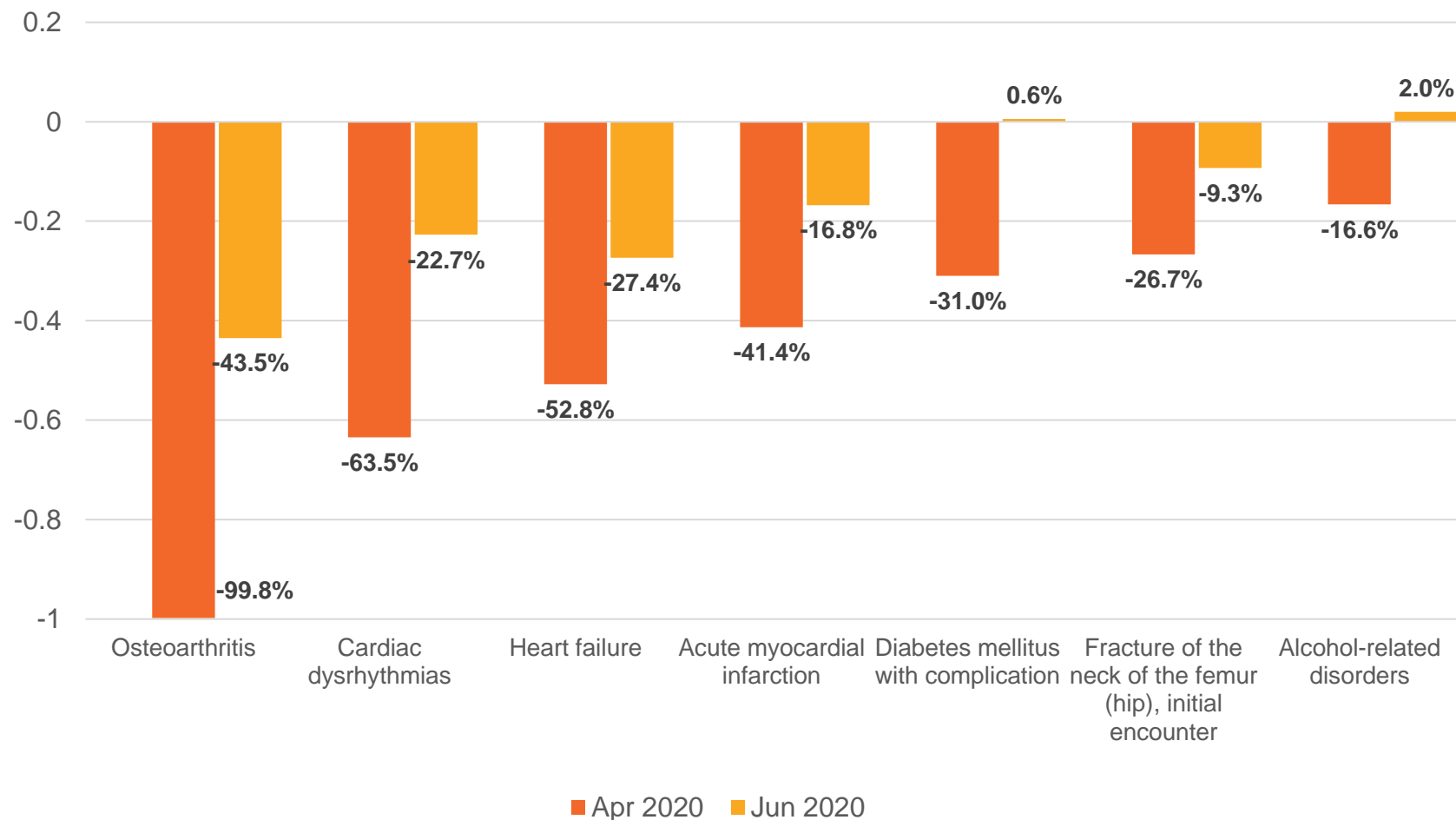
*Inpatient discharges, by category, in a sample of Massachusetts acute care hospitals\**



Source: Massachusetts Center for Health Information and Analysis (CHIA) based on 15 voluntary reporting hospitals: Beth Israel Deaconess Hospital – Milton; Beth Israel Deaconess Hospital – Plymouth; Boston Children's Hospital; Boston Medical Center; Emerson Hospital; Harrington Memorial Hospital; Health Alliance-Clinton Hospital; Holyoke Medical Center; Lowell General Hospital; Marlborough Hospital; Signature Healthcare Brockton Hospital; Southcoast Hospitals Group; Steward Good Samaritan Medical Center; Tufts Medical Center; UMass Memorial Medical Center

## The drop in discharges in April 2020 (by primary diagnosis) was dramatic even for chronic and severe diagnoses.

Percent change in discharges for month shown relative to baseline (Oct '19 to Feb '20 average)

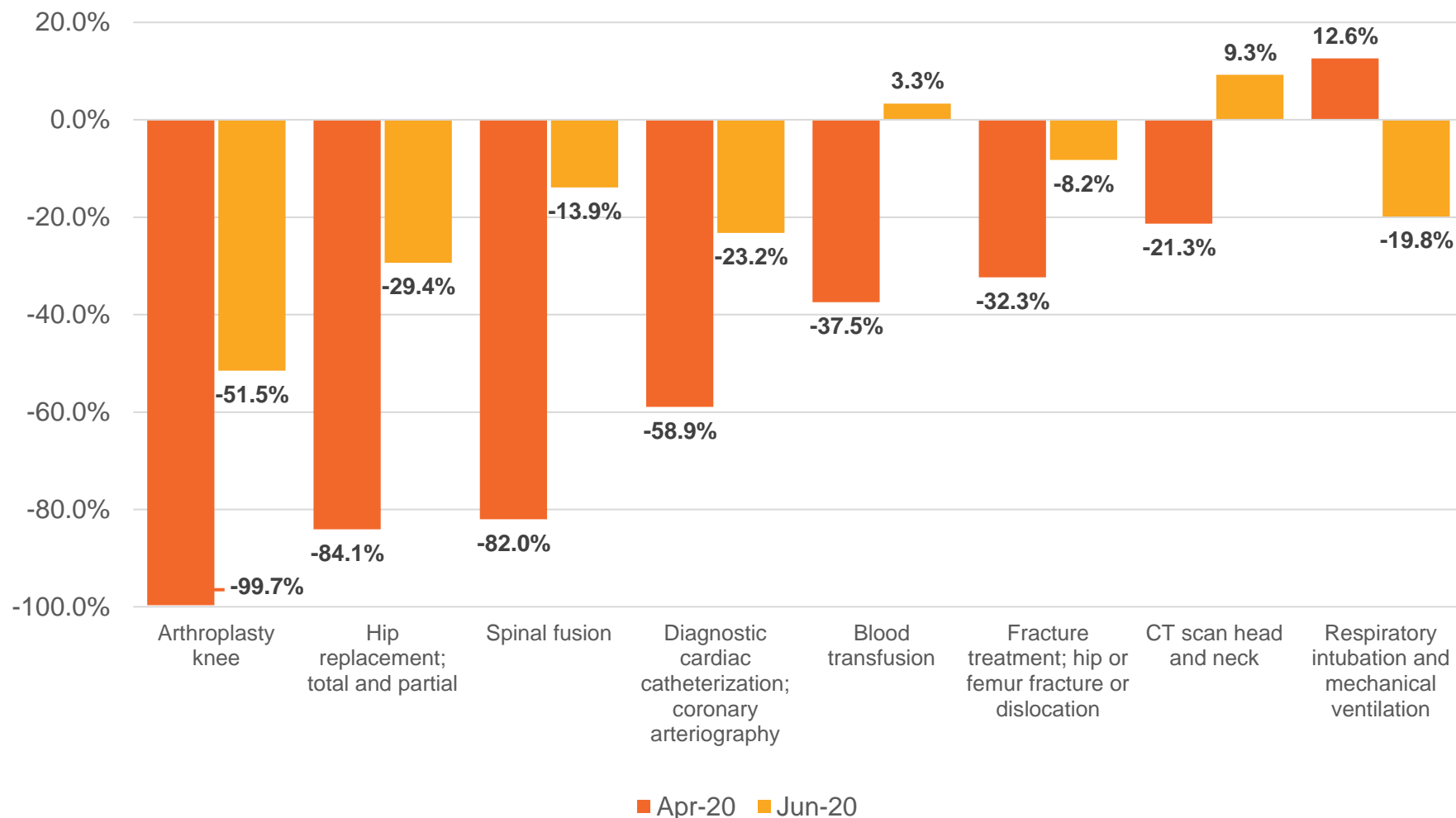


Source: Massachusetts Center for Health Information and Analysis (CHIA) based on 15 voluntary reporting hospitals: Beth Israel Deaconess Hospital – Milton; Beth Israel Deaconess Hospital – Plymouth; Boston Children's Hospital; Boston Medical Center; Emerson Hospital; Harrington Memorial Hospital; Health Alliance-Clinton Hospital; Holyoke Medical Center; Lowell General Hospital; Marlborough Hospital; Signature Healthcare Brockton Hospital; Southcoast Hospitals Group; Steward Good Samaritan Medical Center; Tufts Medical Center; UMass Memorial Medical Center



## Many top discretionary inpatient procedures returned significantly by June 2020.

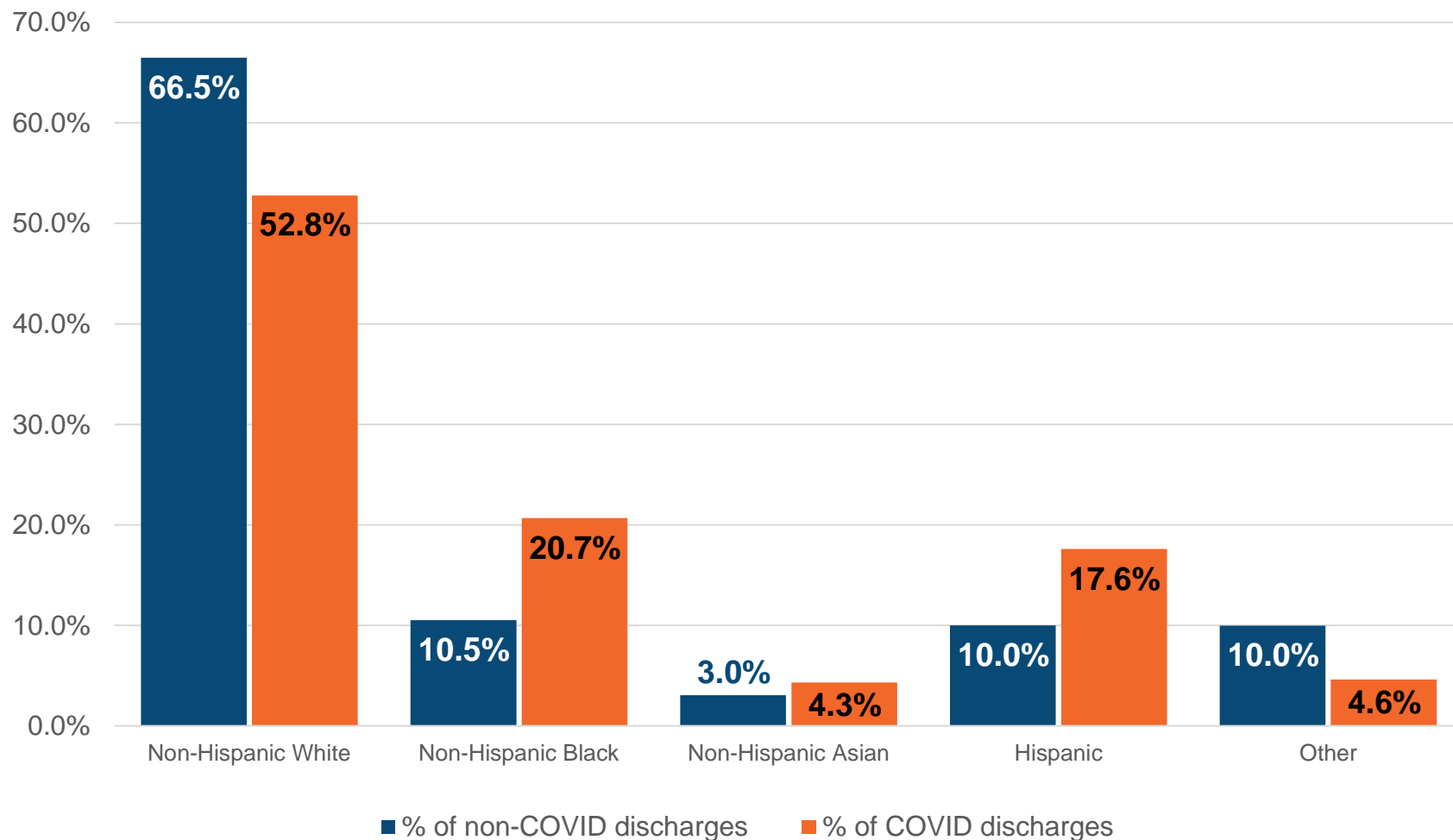
Percent change in procedures for month shown relative to baseline (Oct '19 to Feb '20 average)



Source: Massachusetts Center for Health Information and Analysis (CHIA) based on 15 voluntary reporting hospitals: Beth Israel Deaconess Hospital – Milton; Beth Israel Deaconess Hospital – Plymouth; Boston Children's Hospital; Boston Medical Center; Emerson Hospital; Harrington Memorial Hospital; Health Alliance-Clinton Hospital; Holyoke Medical Center; Lowell General Hospital; Marlborough Hospital; Signature Healthcare Brockton Hospital; Southcoast Hospitals Group; Steward Good Samaritan Medical Center; Tufts Medical Center; UMass Memorial Medical Center

## Black and Hispanic patients accounted for 38.3% of COVID-related inpatient discharges from April to June compared to 20.5% of non-COVID discharges.

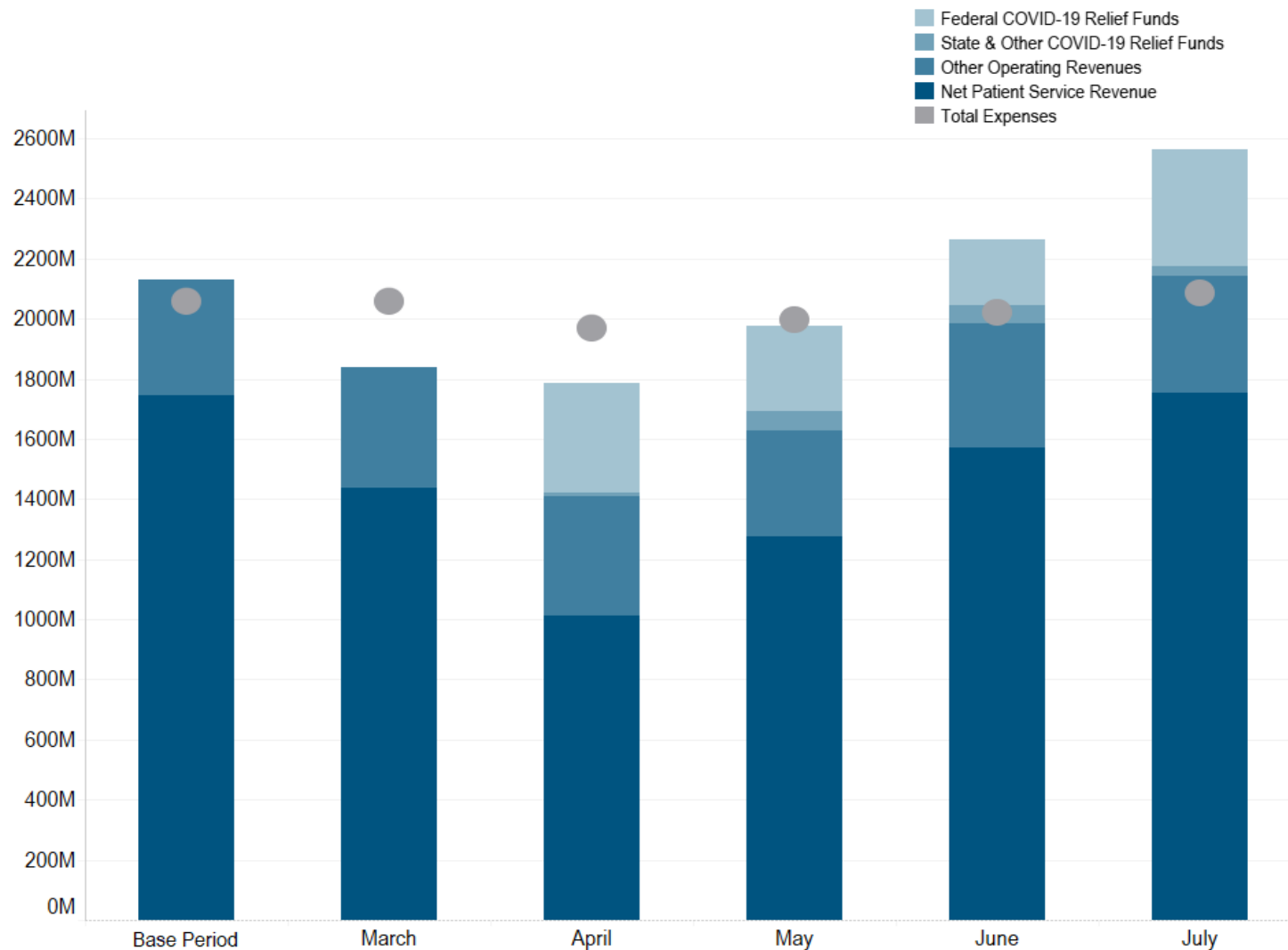
*COVID-related and non-COVID-related discharges between April and June 2020*



Source: Massachusetts Center for Health Information and Analysis (CHIA) based on selected voluntary reporting hospitals: Beth Israel Deaconess Hospital – Milton; Beth Israel Deaconess Hospital – Plymouth; Boston Children's Hospital; Boston Medical Center; Emerson Hospital; Harrington Memorial Hospital; Health Alliance-Clinton Hospital; Holyoke Medical Center; Lowell General Hospital; Marlborough Hospital; Signature Healthcare Brockton Hospital; Southcoast Hospitals Group; Steward Good Samaritan Medical Center; Tufts Medical Center; UMass Memorial Medical Center

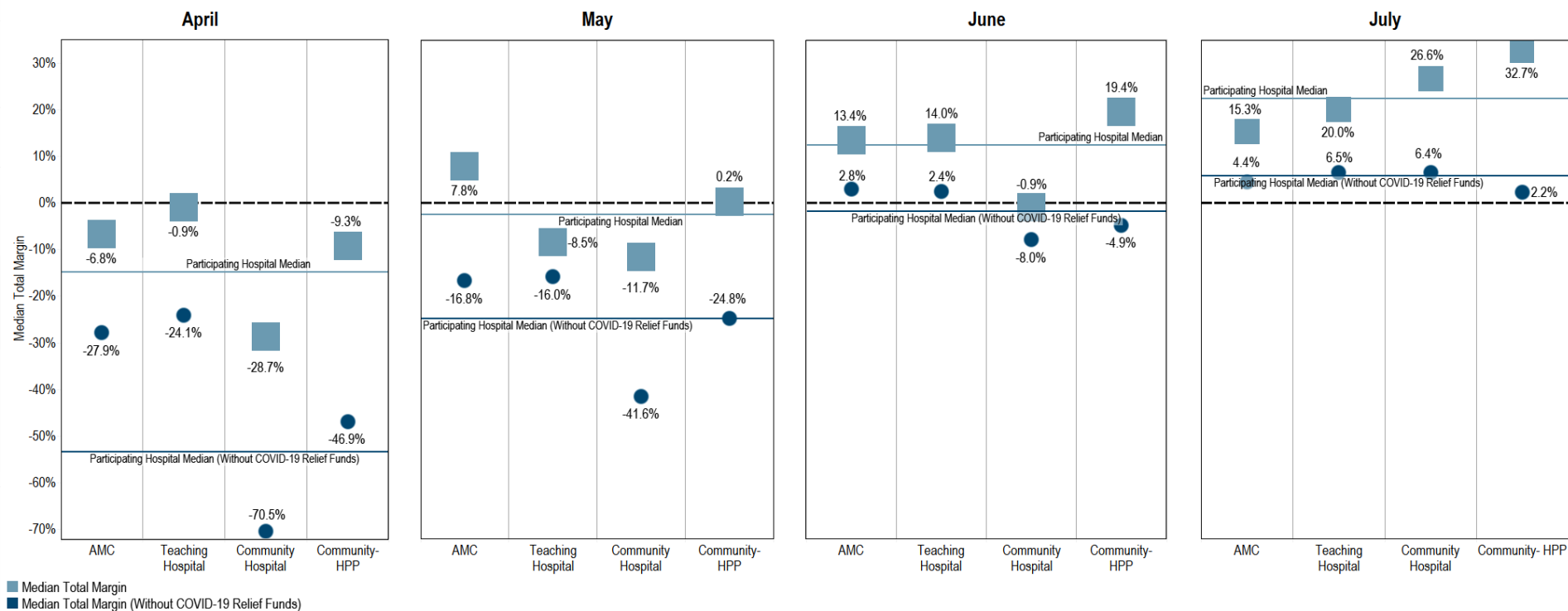
## Hospitals sustained losses in March and April, but COVID-19 relief funds (light blue) led to large positive margins in June (12%) and July (22%).

*Aggregate hospital expenses and revenues, by source*



# Community hospitals experienced greater losses in April and May but saw larger positive margins than other acute care hospitals by July 2020.

Median total hospital margins with and without COVID-19 Relief Funds, by cohort



## Results of a Repeat Survey of Massachusetts Providers



A research collaboration across faculty from the state's medical schools in conjunction with **HPC**, the **Massachusetts Chapter of the American College of Physicians**, and other **academic partners** produced a targeted survey of provider practices (mainly primary care, specialist physician, behavior health)\* from late May to early June 2020 on the impacts of COVID-19.

Practices were re-surveyed September – October 2020.

- Survey responses (including partially-completed surveys)
  - **Round 1:** 953
  - **Round 2:** 325
  - **Both rounds:** 127
- Practice-level results are weighted, where appropriate, by clinician FTE
- Convenience sample – not necessarily representative

*NOTE: Results are preliminary*

## Broad Themes of Open-Text Responses

### Practices Struggling



Providers find telehealth difficult to provide and/or clinically inadequate

Reduced patient volume, including related to patients' lack of access to telehealth

Providers are burned out and feel that the future of their practice is uncertain/are considering early retirement

### Practices Thriving



Increased patient volume related to increased need for mental/behavioral health care

Increased patient volume/contact related to increased access via telehealth

### Additional Challenges



Staffing challenges, including difficulties related to lack of childcare

Stress for patients and providers alike

Disrupted access to care

## Some practices rebounded, while others continue to struggle.

### Spring 2020

- Rebounding practice

**"I continue to pay for office space that I can't use. Now I have to pay for a telemedicine service also...because I'm simultaneously homeschooling my daughter, I can't work as many hours. My husband was furloughed so we're desperate financially."**

*– Independent BH practice 1*

- Struggling practice

**"Many adolescents do not want to meet using telehealth. They do not feel the privacy is the same as in person. As such, I have had a drastic decrease in my client caseload. I am using my personal funds to keep my practice open."**

*– Independent BH practice 2*

### Fall 2020

**"Initially, I lost work and was very low in income, thought I would have to close the practice. As the quarantine went longer, clients' mental health worsened, and they made more efforts to connect via telehealth...Now I can't keep up with the demand."**

*– Independent BH practice 1*

**"The inability to meet clients in person has affected the clients' sense of confidentiality."**

*– Independent BH practice 2*

**"Consideration for early retirement & dramatic consolidation."**

*– Independent specialist practice*

## Additional Positive and Negative Perspectives

### Challenges

**“Many patients are still afraid to be seen. It is difficult to know when to follow up with patients when you do not have any idea when they are going to be seen.”**

*- Primary care practice*

**“Put on hold a tremendous amount of chronic disease management and patient contact.”**

*- Primary care practice*

**“There is a general impression that in-person care is not available.”**

*- Independent BH practice 3*

### Opportunities

**“We have learned that telehealth is a viable option for many cognitive services...and we will continue doing this going forward. I’m hoping the options for primary care will diversify so people use ED less.”**

*- Independent BH practice 4*

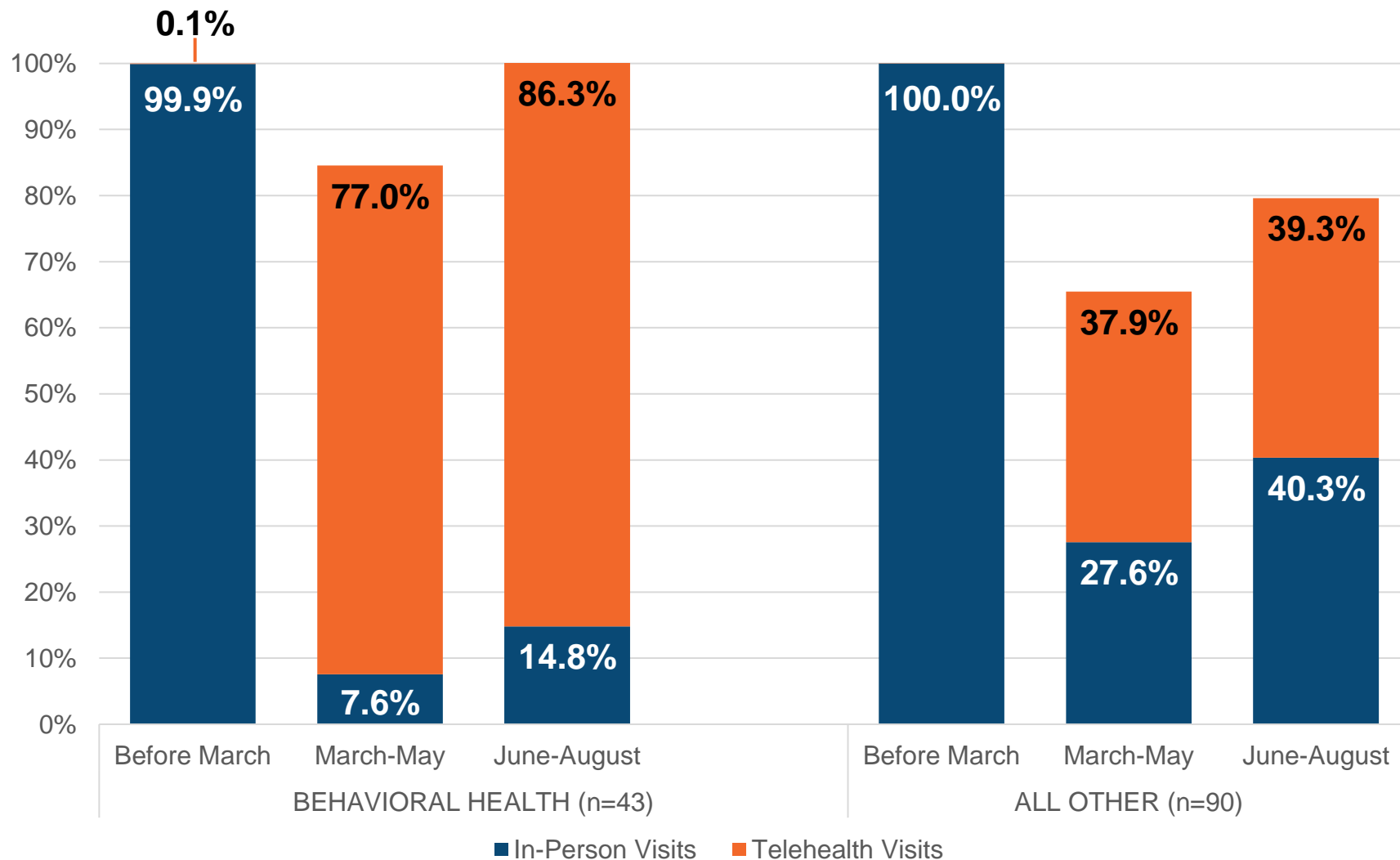
**“I’m happy telehealth is here to stay as it is a good answer for a lot of frail patients. We also started drive through flu clinics for our patients to keep them safe. It was very popular.”**

*- Primary care practice*

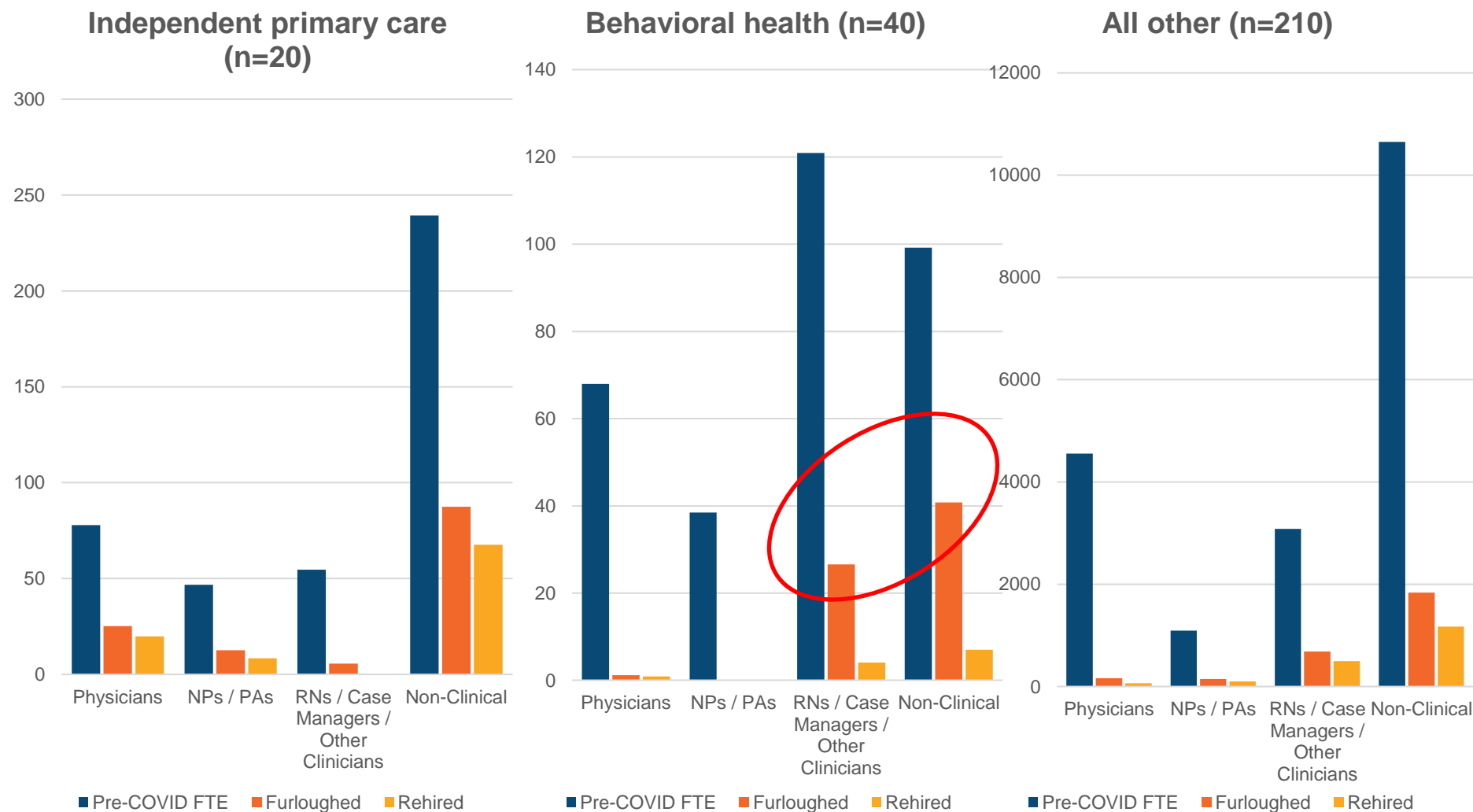


## Behavioral health practices were back to pre-COVID visit levels by summer 2020 due to telehealth while visits at all other practices were roughly 20% below baseline.

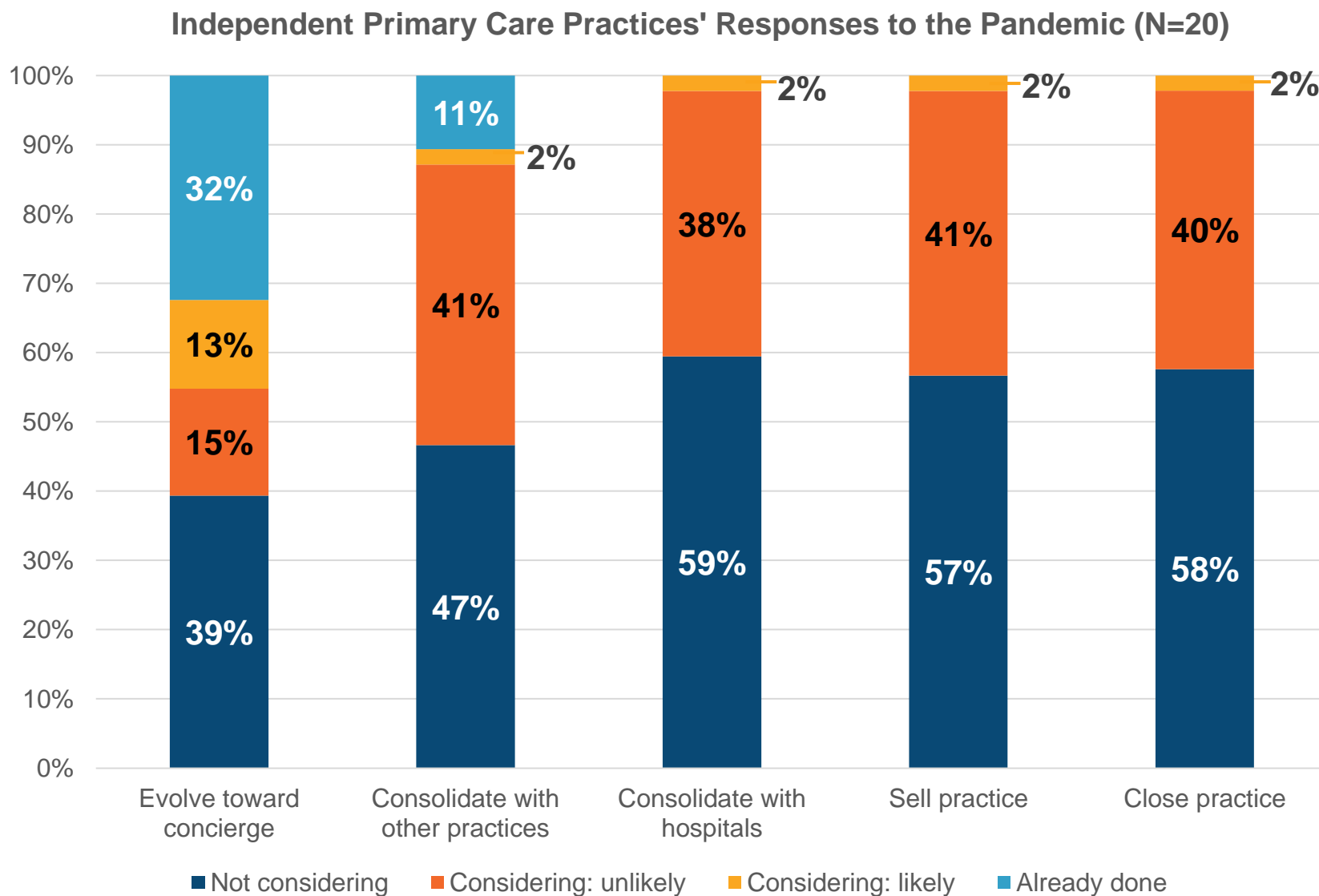
Visit volume for BH and all other practice types relative to pre-COVID levels (defined as 100%), split by in-person and telehealth



**Many of the staff who were furloughed in all settings were eventually rehired, though this was not the case in BH practices for both clinical and non-clinical staff.**



## Some independent primary care practices have undergone, or are considering, major changes.



## Providers expressed the most concern about the socioeconomic impacts of COVID-19 on patients and staff through stress and burnout.

*Averaged responses for all practices that responded to the question (n=113)*

### How concerned is your practice about the impact of the COVID-19 pandemic on the following (1-100)?

