



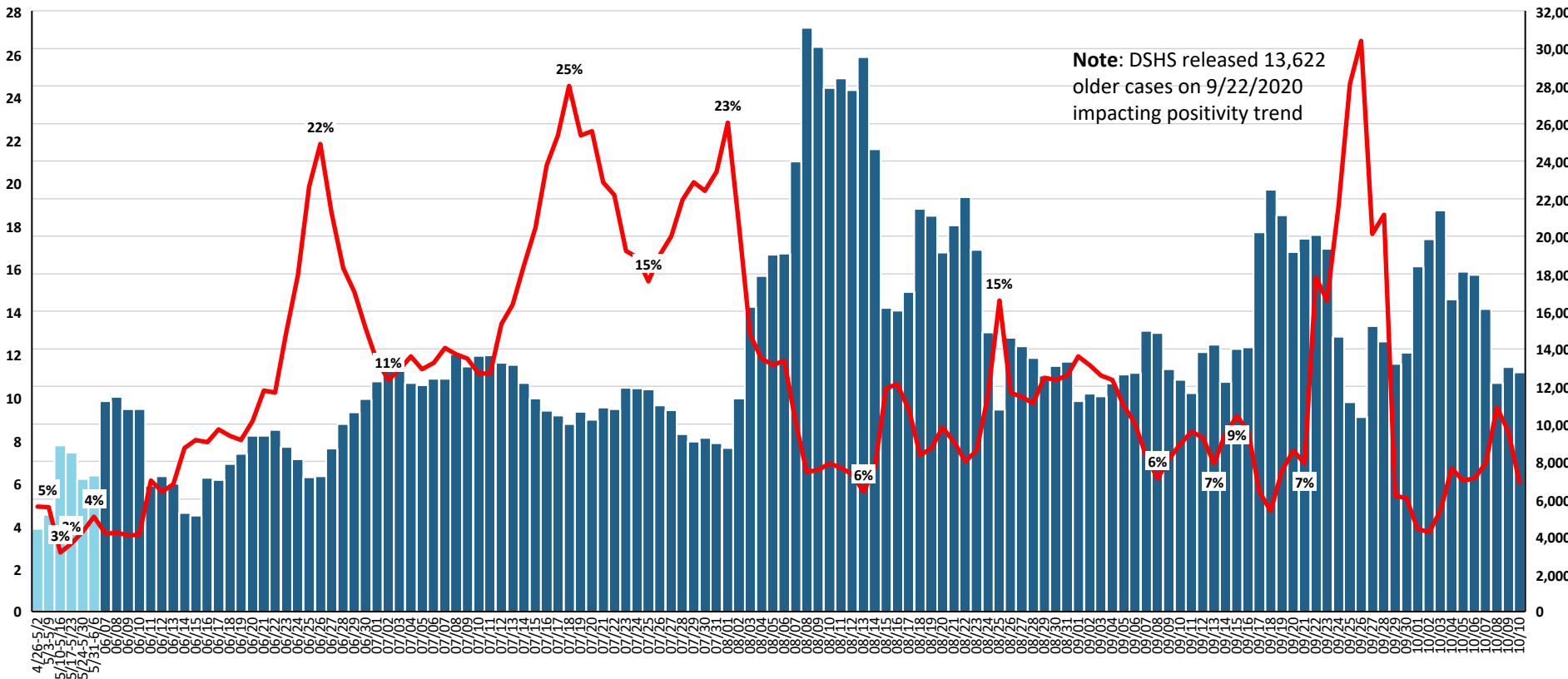
# APPENDIX

AS OF OCTOBER 11, 2020

# COVID-19 TESTING TRENDS FOR GREATER HOUSTON AREA<sup>1</sup>

Data from Texas Department of State Health Services

— 7-dy trend of % test positivity for COVID-19      ■ 7-day trend of daily # of tests performed



(weekly averages)

Source: TX Health and Human Services (<https://dshs.texas.gov/coronavirus/AdditionalData.aspx>)

Note: Excludes days with no tests reported

- 1. Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery and Waller
- 2. Test data on chart will have a 1-day lag

TMC TEXAS MEDICAL CENTER

"TMC" refers to the group of systems that make up Texas Medical Center

Reflects retroactive changes in testing data made by Texas Department of Health and Human Services on 6/9/2020

## Monitoring threshold:

Threshold is exceeded by the occurrence of a positive 7-day average growth in % test positivity

Note: Public testing data for this chart may lag several weeks

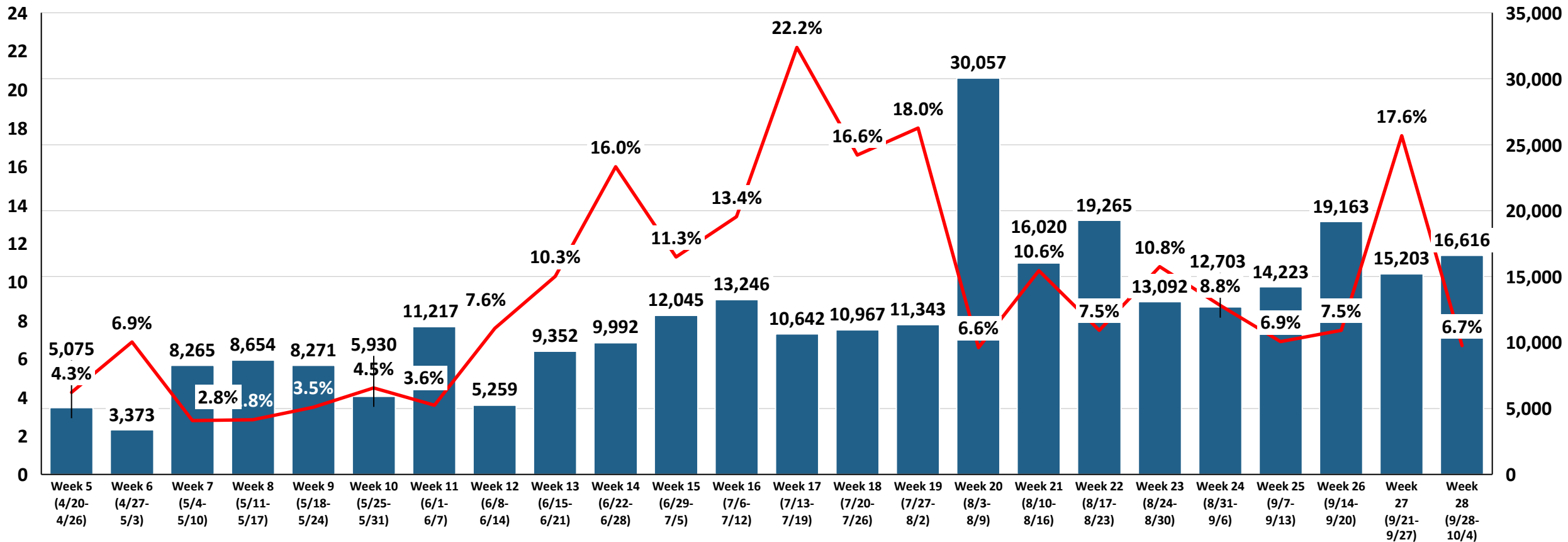
This document is solely intended to share insights and best practices rather than specific recommendations. Individual institution data is shown as reported and has not been independently verified

# AVERAGE DAILY COVID-19 TESTING METRICS BY WEEK ACROSS GREATER HOUSTON AREA

Data from Texas Department of State Health Services

Note: Public testing data for this chart may lag several weeks

— 7-day trend of % test positivity for COVID-19      ■ 7-day trend of daily # of tests performed



Source: TX Health and Human Services (<https://dshs.texas.gov/coronavirus/AdditionalData.aspx>)

Note: Excludes days with no tests reported

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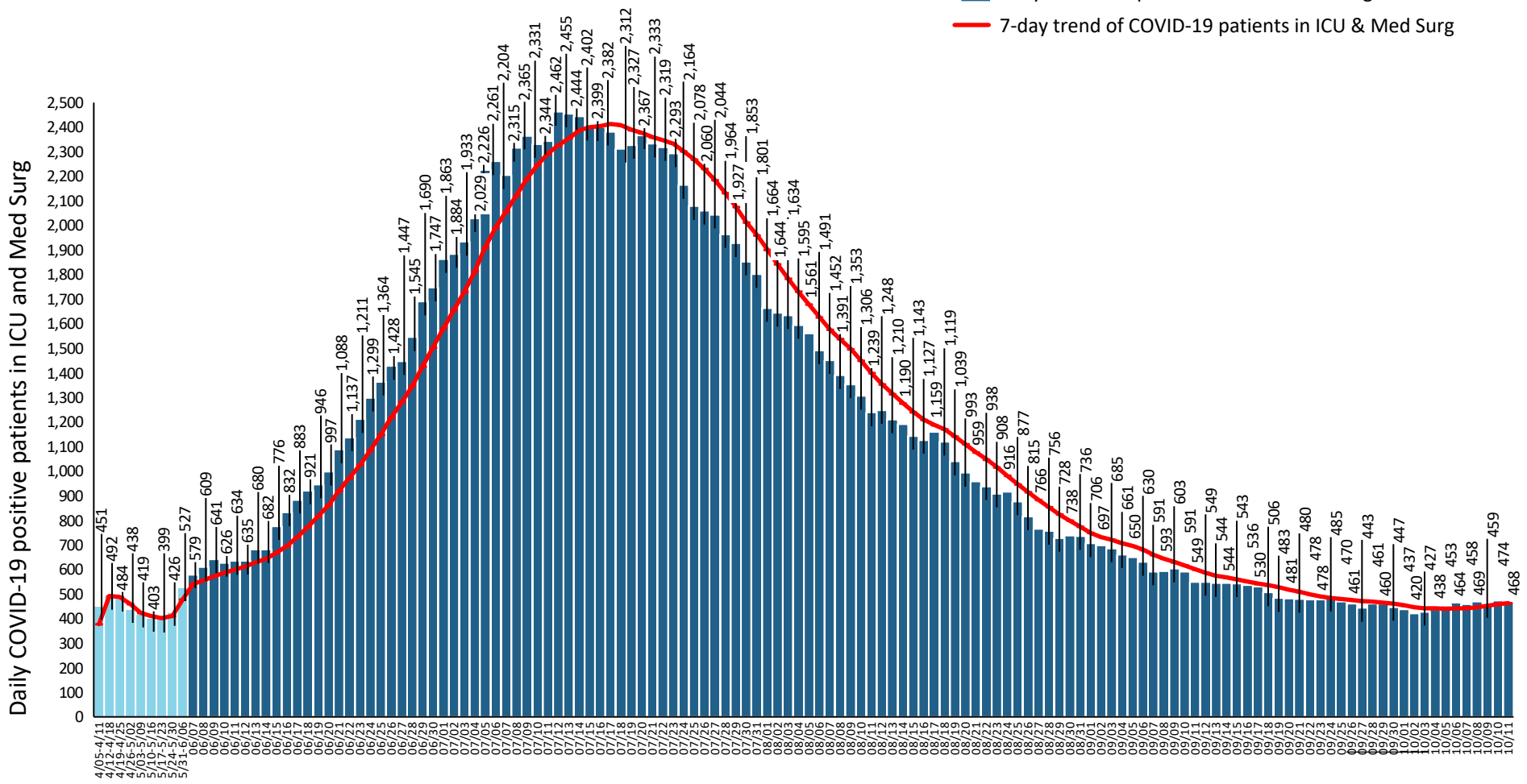
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# TOTAL TMC COVID-19 POSITIVE PATIENTS (ICU & MED SURG) IN HOSPITAL

■ Daily COVID-19 patients in ICU & Med Surg  
 — 7-day trend of COVID-19 patients in ICU & Med Surg



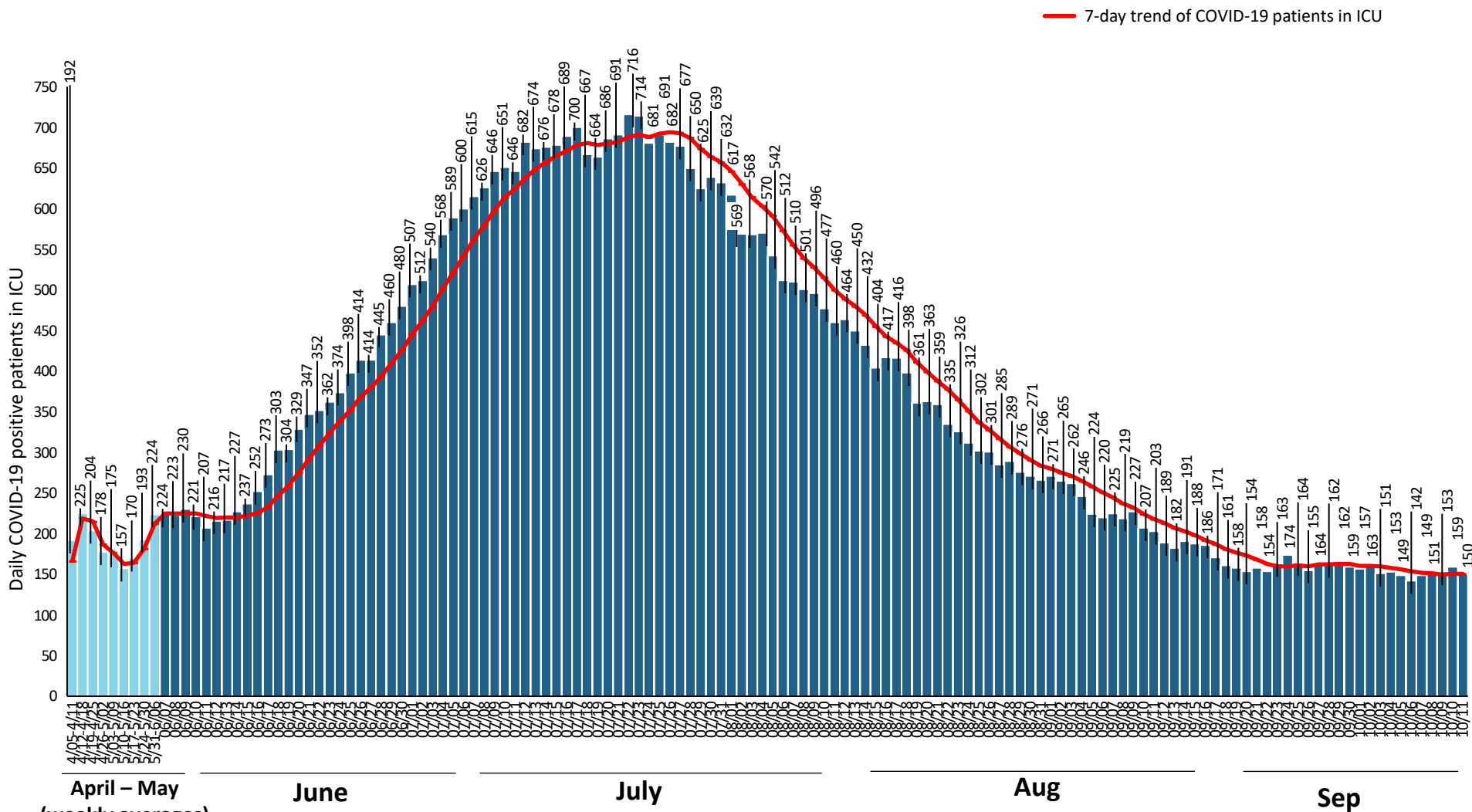
**Current status:**  
**1.2% daily growth rate**  
 (averaged over 7 days) in COVID-19 patients in med surg and ICU combined

**Notes:**  
 While new daily cases may fluctuate for a variety of reasons (e.g., testing), the number of COVID-19 positive patients being treated in med surg and ICU shows an objective view of how COVID-19 impacts hospital systems

April – May (weekly averages)      June      July      Aug      Sep

Source: Internal data collected from the systems CHI Texas Division, Harris Health System, Houston Methodist, MD Anderson Cancer Center, Memorial Hermann, Texas Children’s Hospital, UTMB  
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 All guidelines should be in accordance with CDC guidelines

# TOTAL TMC COVID-19 POSITIVE PATIENTS IN ICU BEDS

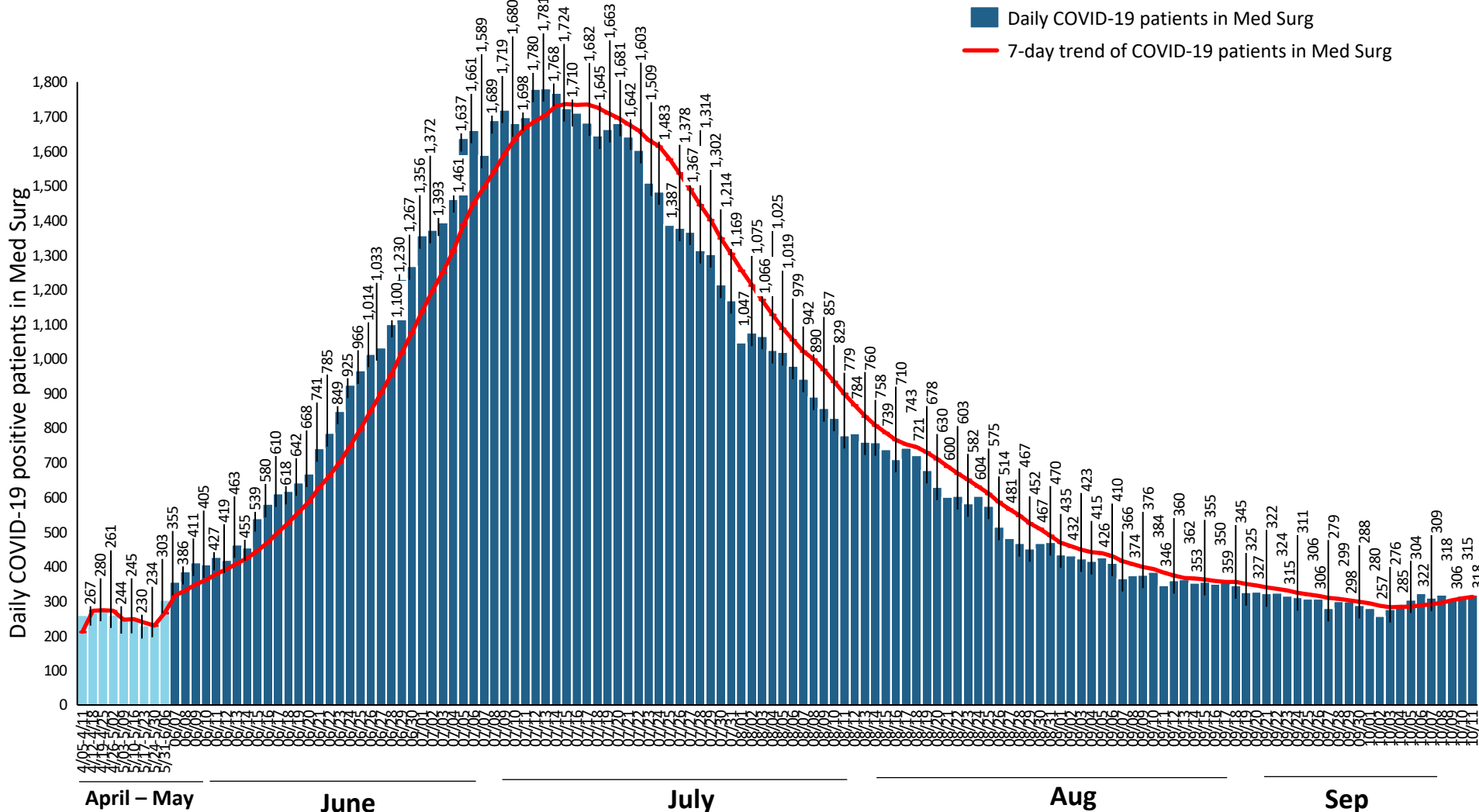


**Current status:**  
**0.3% daily growth rate**  
 (averaged over 7 days) in  
 COVID-19 patients in ICU

**Notes:**  
 While new daily cases may fluctuate for a variety of reasons (e.g., testing), the number of COVID-19 positive patients being treated in ICU shows an objective view of how COVID-19 impacts hospital systems

Source: Internal data collected from the systems CHI Texas Division, Harris Health System, Houston Methodist, MD Anderson Cancer Center, Memorial Hermann, Texas Children’s Hospital, UTMB  
 “TMC” refers to the group of systems that make up Texas Medical Center  
**All guidelines should be in accordance with CDC guidelines**

# TOTAL TMC COVID-19 POSITIVE PATIENTS IN MED SURG BEDS



**Current status:**  
**1.8% daily growth rate**  
 (averaged over 7 days) in  
 COVID-19 patients in med surg

**Notes:**  
 While new daily cases may fluctuate for a variety of reasons (e.g., testing), the number of COVID-19 positive patients being treated in Med surg shows an objective view of how COVID-19 impacts hospital systems

# TMC CAPACITY PLANNING PROTOCOL

## Definitions

### Phase 1 Intensive Care Beds

- ICU bed configuration and staffing under non-pandemic situations

### Phase 2 Intensive Care Beds

- Builds on ICU capacity using our existing plans - through increasing staffing levels and ratios, mobilizing additional Intensive Care equipment & utilizing additional beds

### Phase 3 Intensive Care Beds

- Further planned utilization of Phase 2 levers of surge capacity to provide additional temporary Intensive Care capacity

## Capacity planning



Our hospitals are **very experienced at operating at near 100% capacity** and are able to flex up and down when needed (e.g., with additional staffing)

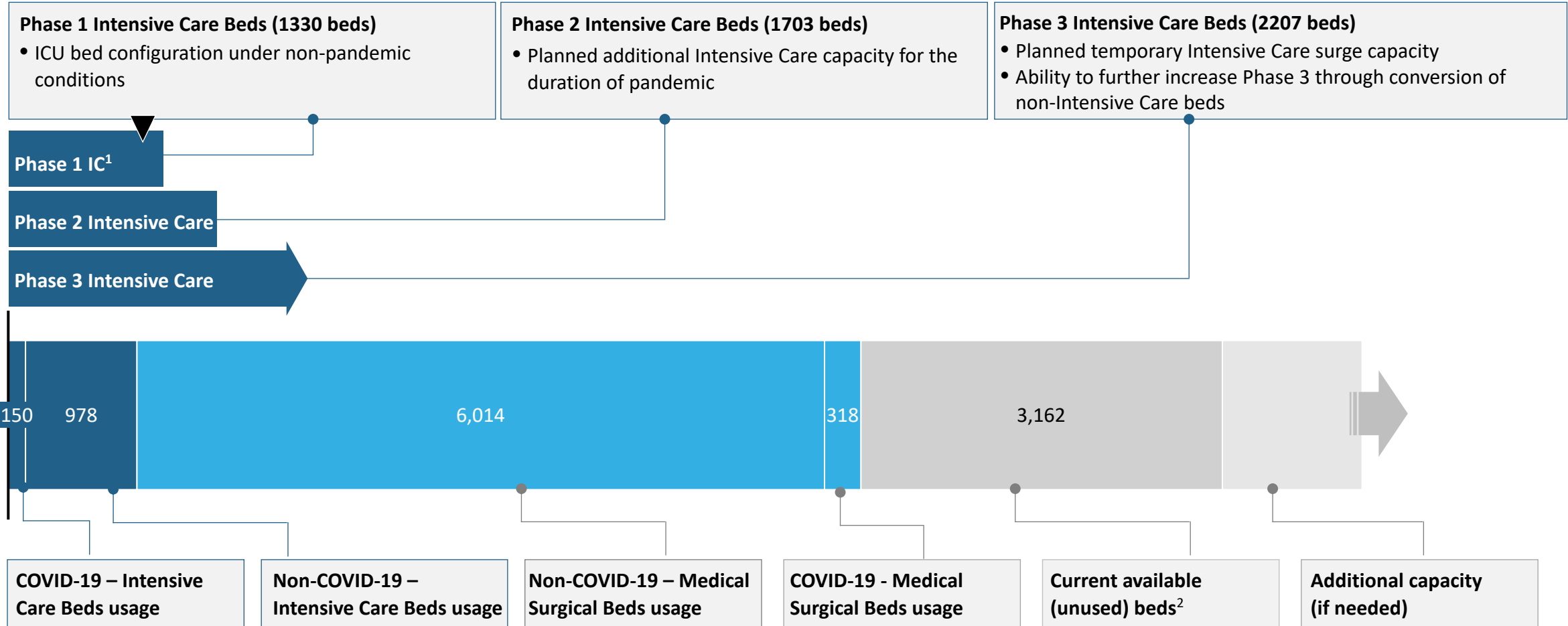
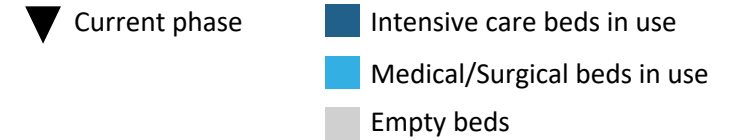


We have proactively developed our surge plans and are **able to add extensive capacity when needed** (e.g., by adding additional staff, additional equipment, additional beds, and increasing densification)



Additionally, we **can moderate intake of non-COVID 19 patients**, based on the clinical needs of the elective portion of these patients. **Non-COVID 19 patients today represents the vast majority of our patients.**

# OVERVIEW OF TMC BED STATUS



**TMC leaders are actively managing, and can adjust, elective procedures to ensure sufficient capacity for COVID-19 needs**

1. Intensive Care  
 2. Total bed availability may fluctuate over time, given ongoing planning and operational considerations. On June 28th and 29th, the total unoccupied beds should have been 3,506 and 3,565, respectively. These data updates did not change ICU or med-surg occupancy and did not change ICU capacity percentages reported on any date.

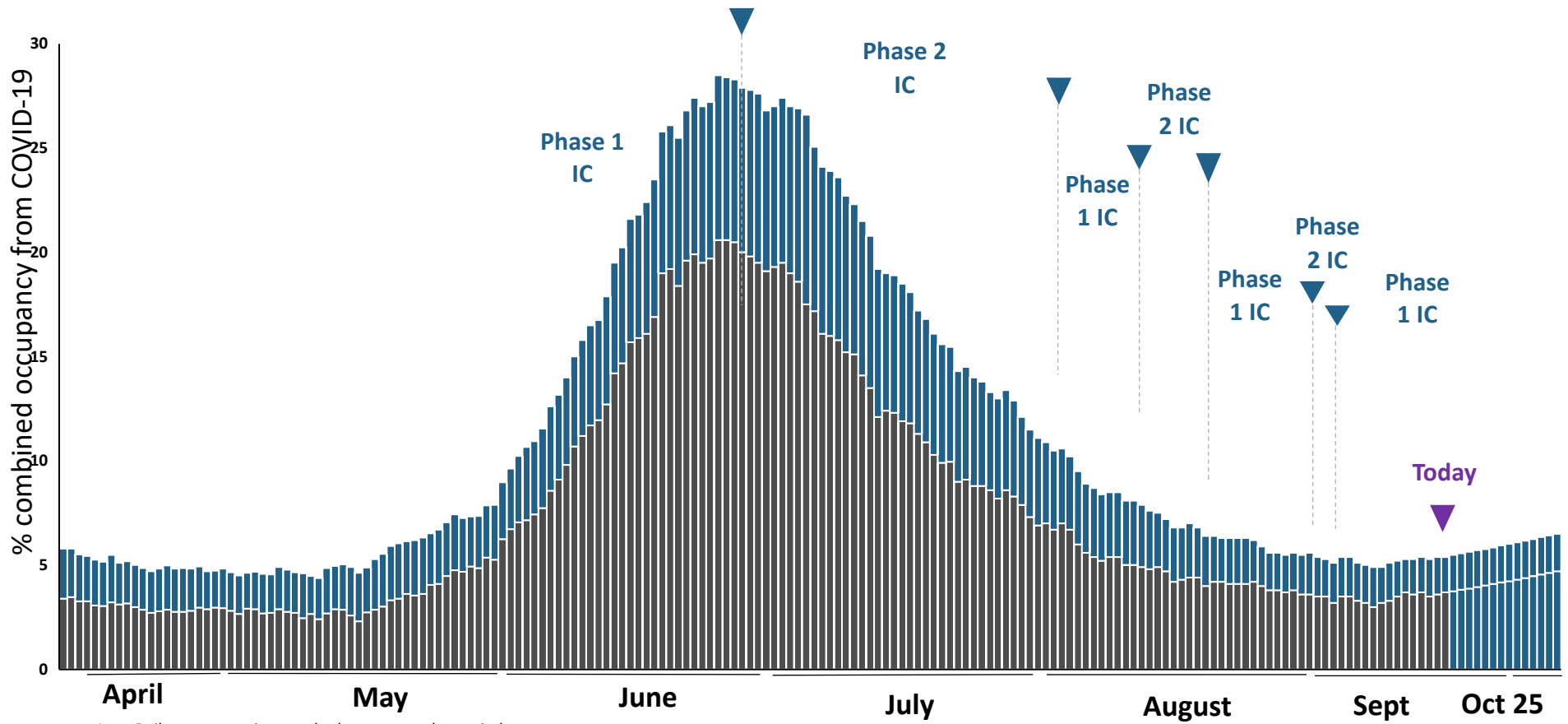




# TMC 2-WEEK PROJECTION USING BED OCCUPANCY GROWTH

% total bed occupancy<sup>1</sup>

■ ICU actuals      ■ ICU forecast  
 ■ Med/Surg actuals      ■ Med/Surg forecast



- For the past 7 days, the average daily growth in occupancy for COVID-19 patients has been:
  - 0.3% for ICU
  - 1.8% for Med Surg
- TMC is in **Phase 1** Intensive Care Capacity
- If this growth continues, TMC:
  - Will likely not move into Phase 3 Intensive Care within 2 weeks
- This calculation assumes a similar occupancy for non-COVID-19 procedures as today

The health and wellbeing of our community requires that **each of us do our part to slow the spread of COVID-19**, including:

- Maintaining social distance
- Wearing a mask while in public
- Washing hands regularly
- Test and self-isolate, if sick

1. Daily occupancy is smoothed over a two-day period  
 Note: For projections, non-COVID-19 occupancy is assumed to stay constant at modeling rate on day of forecast

## TMC EXPECTED PPE NEEDS

- No concern
- Moderate concern
- Warning

	<u>Average daily burn rate<sup>1</sup></u>	<u>Estimated days available</u>	<u>Status</u>
N95 respirator masks	7,572	274	<span style="color: green;">●</span>
Surgical face masks	133,336	144	<span style="color: green;">●</span>
Eye protection	4,259	634	<span style="color: green;">●</span>
Gowns	55,792	121	<span style="color: green;">●</span>
Gloves	1,037,641	45	<span style="color: green;">●</span>

1. Calculated using trailing 2-week average burn rate

Source: Internal data collected from the systems CHI Texas Division, Harris Health System, Houston Methodist, MD Anderson Cancer Center, Memorial Hermann, Texas Children's Hospital, UTMB

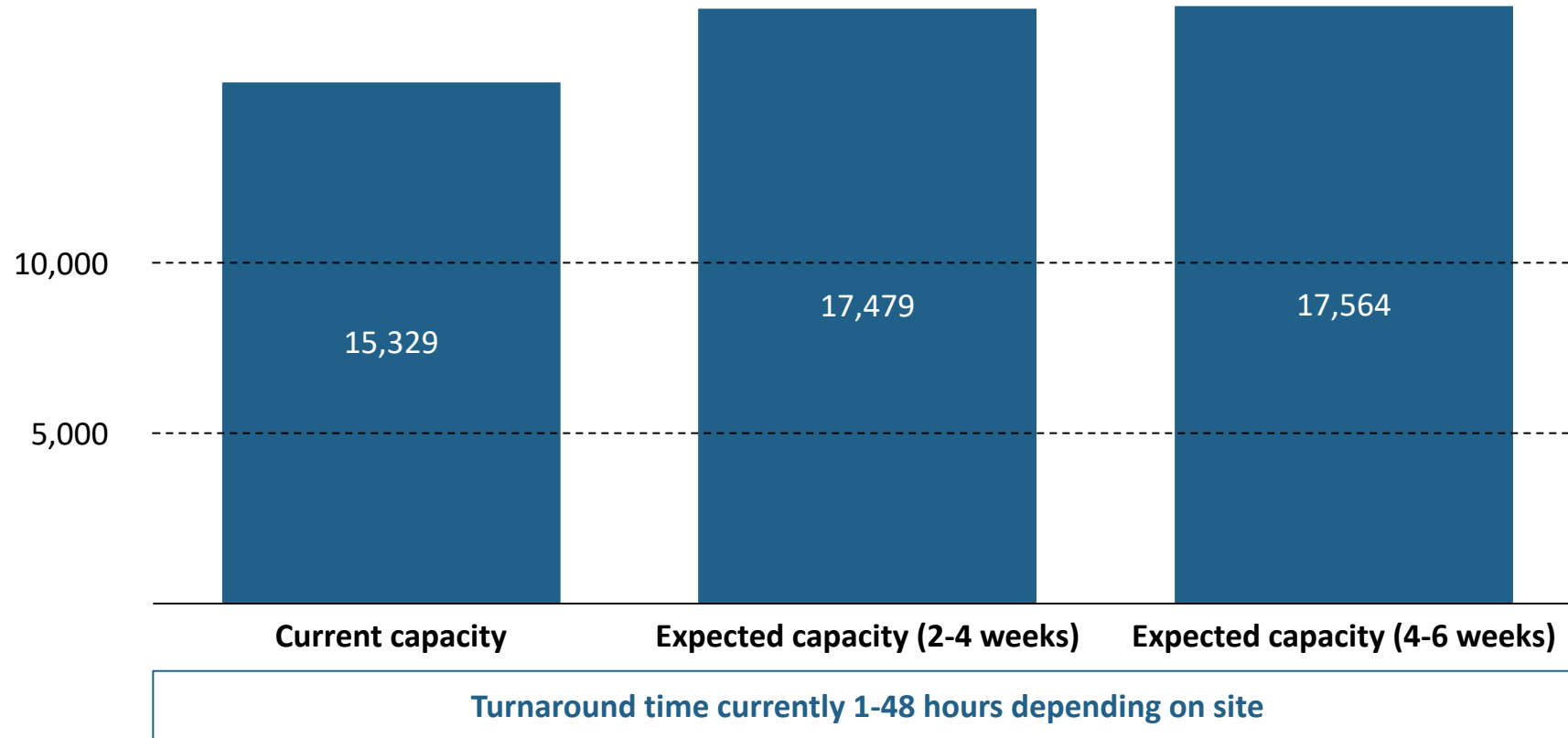
**Monitoring threshold:**  
30-day supply of critical PPE items

**Current status:**  
All critical PPE items within range

**Note:**  
Data shown represents all TMC institutions and might vary from institution to institution

# TMC TESTING CAPACITY

PCR tests, (#/day)



1. Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery and Waller

Source: Internal data collected from the systems Baylor College of Medicine, CHI Texas Division, Harris Health System, Houston Methodist, MD Anderson Cancer Center, Memorial Hermann, Texas Children's Hospital, UT Health, UTMB

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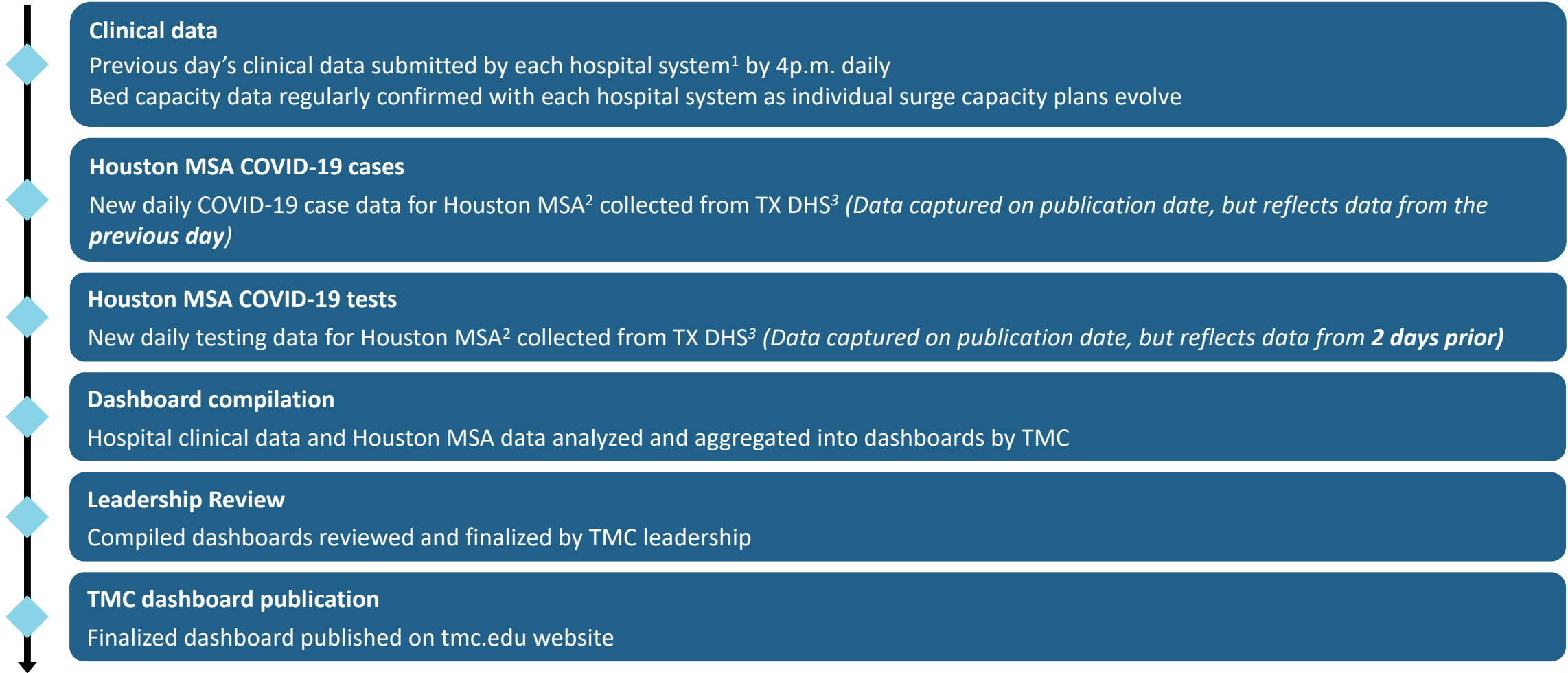
## Monitoring threshold:

5,000-10,000 PCR tests per day available for hospital patients and healthcare worker surveillance (with <24 hour turnaround time)

## Notes:

Capacity is dependent on critical supplies (reagents)

# TMC DATA COLLECTION PROCESS



1. System-wide clinical data collected from CHI Texas Division, Harris Health System, Houston Methodist, MD Anderson Cancer Center, Memorial Hermann, Texas Children's Hospital, UTMB. TMC institutions represent ~70-80% of licensed beds in the 9 Houston MSA counties
2. Houston MSA includes 9 counties: Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery and Waller
3. Source: txdhs.gov