COVID-19 TESTING TRENDS FOR GREATER HOUSTON AREA

Data from Texas Department of State Health Services

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

**Note:** DSHS released 13,622 older cases on 9/22/2020 impacting positivity trend

**Note:** Winter storm disrupted data 2/14-2/20

**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.

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" 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

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

Data from Texas Department of State Health Services

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

Note: Public testing data for this chart may lag several weeks.
Data has been released through 2/13.

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

Note: Excludes days with no tests reported
Reflects retroactive changes in testing data made by Texas Department of Health and Human Services on 6/9/2020
Data has been released through 2/13.

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

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Total TMC COVID-19 Positive Patients (ICU & Med Surg) in Hospital

Current status: -0.7% 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.

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

TMC | Texas Medical Center
Note: Excludes days with no tests reported

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

Current status:
-0.8% 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.

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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March 30, 2021
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

Phase 1 Intensive Care Beds (1330 beds)
- ICU bed configuration under non-pandemic conditions

Phase 2 Intensive Care Beds (1703 beds)
- Planned additional Intensive Care capacity for the duration of pandemic

Phase 3 Intensive Care Beds (2207 beds)
- Planned temporary Intensive Care surge capacity
- Ability to further increase Phase 3 through conversion of non-Intensive Care beds

COVID-19 – Intensive Care Beds usage
- Phase 1 Intensive Care
- Phase 2 Intensive Care
- Phase 3 Intensive Care

Non-COVID-19 – Intensive Care Beds usage

Non-COVID-19 – Medical Surgical Beds usage

COVID-19 - Medical Surgical Beds usage

Current available (unused) beds
- 233
- 1,129
- 6,218
- 597
- 2,445

Additional capacity (if needed)

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

COVID-19 – Intensive Care Beds usage
Non-COVID-19 – Intensive Care Beds usage
Non-COVID-19 – Medical Surgical Beds usage
COVID-19 - Medical Surgical Beds usage
Current available (unused) beds
Additional capacity (if needed)

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### TMC EXPECTED PPE NEEDS

<table>
<thead>
<tr>
<th></th>
<th>Average daily burn rate¹</th>
<th>Estimated days available</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>N95 respirator masks</td>
<td>8,258</td>
<td>436</td>
<td>No concern</td>
</tr>
<tr>
<td>Surgical face masks</td>
<td>145,248</td>
<td>128</td>
<td>No concern</td>
</tr>
<tr>
<td>Eye protection</td>
<td>4,889</td>
<td>421</td>
<td>No concern</td>
</tr>
<tr>
<td>Gowns</td>
<td>51,803</td>
<td>178</td>
<td>No concern</td>
</tr>
<tr>
<td>Gloves</td>
<td>1,220,176</td>
<td>110</td>
<td>Warning</td>
</tr>
</tbody>
</table>

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

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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)

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**TMC TESTING CAPACITY**

*PCR tests, (#/day)*

- **Current capacity:** 15,329
- **Expected capacity (2-4 weeks):** 17,479
- **Expected capacity (4-6 weeks):** 17,564

Turnaround time currently 1-48 hours depending on site

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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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TMC DATA COLLECTION PROCESS

Clinical data
Previous day’s clinical data submitted by each hospital system\(^1\) by 4p.m. daily
Bed capacity data regularly confirmed with each hospital system as individual surge capacity plans evolve

Houston MSA COVID-19 cases
New daily COVID-19 case data for Houston MSA\(^2\) collected from TX DHS\(^1\) (Data captured on publication date, but reflects data from the previous day)

Houston MSA COVID-19 tests
New daily testing data for Houston MSA\(^2\) collected from TX DHS\(^3\) (Data captured on publication date, but reflects data from 2 days prior)

Dashboard compilation
Hospital clinical data and Houston MSA data analyzed and aggregated into dashboards by TMC

Leadership Review
Compiled dashboards reviewed and finalized by TMC leadership

TMC dashboard publication
Finalized dashboard published on tmc.edu website

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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

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