APPENDIX
AS OF JANUARY 20, 2021
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.

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

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

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

COVID-19 TESTING TRENDS FOR GREATER HOUSTON AREA

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. 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
- 7-day trend of daily # of cases

April – May (weekly averages)

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

Note: DSHS released 13,632 older cases on 9/22/2020 impacting positivity trend

April – May (weekly averages)

Note: Test data on chart will have a 1-day lag

January 19, 2021

COVID-19 CASE GROWTH TREND
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.

Current status: -0.1% 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

Note: Excludes days with no tests reported
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Current status:
0.6% 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

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TOTAL TMC COVID-19 POSITIVE PATIENTS IN MED SURG BEDS

**Current status:**

-0.4% 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.

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# 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

### Intensive care beds in use
- Phase 1: 564
- Phase 2: 918
- Phase 3: 2,005

### Medical/Surgical beds in use
- Phase 1: 5,505
- Phase 2: 1,630

### Empty beds
- Phase 1: 3,506
- Phase 2: 3,565

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

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1. Intensive Care
2. Medical/Surgical beds
3. Current available (unused) beds
4. Additional capacity (if needed)

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### TMC EXPECTED PPE NEEDS

<table>
<thead>
<tr>
<th>PPE Item</th>
<th>Average daily burn rate</th>
<th>Estimated days available</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>N95 respirator masks</td>
<td>3,665</td>
<td>430</td>
<td>![Green](No concern)</td>
</tr>
<tr>
<td>Surgical face masks</td>
<td>114,402</td>
<td>183</td>
<td>![Green](No concern)</td>
</tr>
<tr>
<td>Eye protection</td>
<td>3,770</td>
<td>1,081</td>
<td>![Green](No concern)</td>
</tr>
<tr>
<td>Gowns</td>
<td>46,402</td>
<td>180</td>
<td>![Green](No concern)</td>
</tr>
<tr>
<td>Gloves</td>
<td>844,537</td>
<td>53</td>
<td>![Green](No concern)</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

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**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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TMC | TEXAS MEDICAL CENTER

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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

**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)

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 by 4 p.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 collected from TX DHS (Data captured on publication date, but reflects data from the previous day)

Houston MSA COVID-19 tests
- New daily testing data for Houston MSA collected from TX DHS (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

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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