COVID-19 CAPABILITIES
September 2020
COVID-19 – Highlights of Excellence

<table>
<thead>
<tr>
<th>Rank</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Health care system in San Diego to care for COVID-19 patients</td>
</tr>
<tr>
<td>1st</td>
<td>In San Diego, to develop in-house COVID-19 testing at CALM&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>1 of only 3</td>
<td>Centers in San Diego to participate in nation’s first Phase III COVID-19 vaccine trial (Moderna)</td>
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<tr>
<td>9</td>
<td>Clinical trials of COVID-19 interventions</td>
</tr>
<tr>
<td>2</td>
<td>Phase III COVID-19 vaccine trials to launch soon</td>
</tr>
</tbody>
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1. Center for Advanced Laboratory Medicine
COVID-19 Testing

- **1st** In-house testing in region, developed by UC San Diego CALM¹
- **5** Industry partners
  Thermo Fisher Scientific, Roche Diagnostics, GenMark Diagnostics, Luminex Corp. and Abbott Diagnostics
- **90,000+** In-house tests completed since March

## COVID-19 TESTING CAPACITY
1,900 Tests Per Day

<table>
<thead>
<tr>
<th>Type of Test</th>
<th># per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR diagnostic</td>
<td>1,000</td>
</tr>
<tr>
<td>Serology (antibody)</td>
<td>800</td>
</tr>
<tr>
<td>Rapid PCR</td>
<td>100</td>
</tr>
</tbody>
</table>

¹. Center for Advanced Laboratory Medicine
Safety is our top priority

Diagnostic PCR and antibody testing limited to UC San Diego Health:

- Frontline caregivers and staff — more than 11,000 tested
- Symptomatic patients
- All patients prior to surgery
Contracted services may include:

- On-site employee and patient testing
- Access to UC San Diego Health drive-up testing sites
- Infection prevention education
- Facility assessment

**DIAGNOSTIC TESTING**
External Contracts – Ongoing and Completed

<table>
<thead>
<tr>
<th>Facility</th>
<th>Description</th>
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<tbody>
<tr>
<td>El Centro Regional Medical Center</td>
<td></td>
</tr>
<tr>
<td>Five senior nursing facilities experiencing outbreaks, four in partnership with San Diego County</td>
<td></td>
</tr>
<tr>
<td>Father Joe’s Villages, serving homeless</td>
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<tr>
<td>Surgical Care Affiliates, multiple locations</td>
<td></td>
</tr>
<tr>
<td>North Coast Surgery Center, Grossmont Surgery Center and 7 other local surgery centers</td>
<td></td>
</tr>
</tbody>
</table>
**COVID-19 – Clinical Trials**

**UC San Diego Health** leads region’s efforts to develop and test COVID-19 treatments and vaccines

<table>
<thead>
<tr>
<th>Investigational Therapeutic</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderna mRNA SARS-CoV2 vaccine</td>
<td>Phase 3</td>
</tr>
<tr>
<td>Tocilizumab to reduce lung-damaging inflammation</td>
<td>Phase 3</td>
</tr>
<tr>
<td>Remdesivir to reduce viral loads (trial closed)</td>
<td>Phase 3</td>
</tr>
<tr>
<td>Ramipril, an ACE inhibitor, to prevent ICU admissions</td>
<td>Phase 2</td>
</tr>
<tr>
<td>Hydroxychloroquine and azithromycin to prevent hospitalization</td>
<td>Phase 2</td>
</tr>
<tr>
<td>Hyperbaric oxygen to prevent ICU admission</td>
<td>Phase 2/3</td>
</tr>
<tr>
<td>Convalescent plasma to boost natural immune response</td>
<td>Phase 2</td>
</tr>
</tbody>
</table>
UC San Diego Health will be the region’s only medical center with 3 Phase III COVID-19 vaccine trials

Vaccines generate antibodies to the spike protein to protect against infection

COVID-19 Vaccine Trials
- Moderna (underway)
- AstraZeneca (pending)
- Janssen (pending)
COVID-19 – ECMO Mobile Life Support for the Critically Ill

- UC San Diego Health created a mobile ECMO unit to help the critically ill
- Lifesaving care delivered to 7 hospitals in San Diego and Imperial counties
- ECMO is mechanical heart and lung support, an advanced technology unavailable at small hospitals
COVID-19 – EL Centro Regional Medical Center (ECRMC)

Through UC San Diego Health’s affiliation with El Centro Regional Medical Center, our care teams are helping patients in Imperial County, with:

• On-site and telemedicine-based critical care

• Transfers of critically ill patients to our hospitals, including via mobile ECMO services

• Protocols for safely screening and admitting patients

• Ongoing staffing and management of the ECRMC emergency department
COVID-19 – Humanitarian Crisis in Mexico

Medical Mission to Tijuana General Hospital

• Critical care doctors, nurses and respiratory therapists volunteered with Aliados por Salud

• Four weeks of on-site ICU care support

• Ongoing return visits and twice weekly tele-ICU support

• Volunteer effort expanded to Mexicali General Hospital
COVID-19
Humanitarian Crisis in Mexico

Protective equipment to Consulate General de Mexico

• N95 respirators, ear-loop masks, face shields, goggles and gloves collected

• Equipment distributed to Tijuana and Mexicali hospitals by ISESALUD

OASIS living map and crowd sourced platform

• Share recent travel history, COVID symptoms and potential contacts

• Empower everyone to stay safe
COVID-19
Safety Equipment Donated to the Community

UC San Diego Health redistributed non-medical grade personal protective gear (PPE) to:

• **Alpha Project**, serving the homeless at the convention center

• **Chicano Federation**, helping local families in need

• **10,000+** face masks, face shields, goggles, gloves and more distributed
• $5.7M raised from 1,600+ donors since March
• 28% were UC San Diego Health patients
• Large gifts supporting COVID-related activities from: John and Mary Tu Foundation; Joe Tsai and Clara Wu Tsai; The Conrad Prebys Foundation; Jean and Gary Shekhter, and Dene and Elizabeth Oliver
INFORMATION

health.ucsd.edu/covid
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