2020 Laboratory Quality Metrics

Test Volumes

Total Tests Performed at Anschutz Campus = 999,524
Client test volume = 75,265

Total Tests Performed at all DPLM locations = 1,145,730

COVID Pandemic Response

COVID rapid collection sheds were created at the following locations to collect specimens from patients, referred patients, family members and employees.
- Anschutz Campus
- Colorado Springs - Briargate
- North Campus
- South Campus

Total samples collected = 62,432

Sars Cov-2 PCR testing was implemented on four platforms. By implementing testing across multiple platforms, testing continued as supply shortages and shipping issues occurred that otherwise could have impacted patient care.
- Abbott m2000
- ABI 7500
- DiaSorin Simplexa
- Cepheid Infinity GeneXpert

Total tests performed = 116,323
Client test volume = 28,711

- Antibody Testing was implemented in Chemistry and Immunology sections testing for IgG and IgM.
- Convalescent plasma collections were performed March - September.
Proficiency Testing

<table>
<thead>
<tr>
<th>CAP Proficiency Tests Performed</th>
<th>% Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,696 tests</td>
<td>98.8%</td>
</tr>
</tbody>
</table>

All unacceptable proficiency testing results are investigated to determine the root cause and corrective/preventative action is established as needed.

Critical Values & Notification

<table>
<thead>
<tr>
<th>Critical Value Notification to Care Provider</th>
<th>% Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,265 results</td>
<td>95.3%</td>
</tr>
</tbody>
</table>

Acceptable notification requires staff to contact licensed care provider within an acceptable time frame and document notification.

Turn-Around Times

<table>
<thead>
<tr>
<th>Lab</th>
<th>Test</th>
<th>Total Tests</th>
<th>% TAT within Goal</th>
<th>TAT Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemical Genetics</td>
<td>HVA/VMA</td>
<td>122</td>
<td>98.4%</td>
<td>≥90% within 5 business days</td>
</tr>
<tr>
<td>Blood Bank</td>
<td>Antibody Screen</td>
<td>1,130</td>
<td>92.3%</td>
<td>≥90% within 45 minutes</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Sodium (Na) - STAT</td>
<td>27,338</td>
<td>90.2%</td>
<td>≥90% within 35 minutes</td>
</tr>
<tr>
<td>Electron Microscopy</td>
<td>Electron Microscopy</td>
<td>1,362</td>
<td>90.6%</td>
<td>≥97% within 1 business day</td>
</tr>
<tr>
<td>Flow Cytometry</td>
<td>Stem Cell PB</td>
<td>18</td>
<td>100%</td>
<td>≥90% within 120 minutes</td>
</tr>
<tr>
<td>Hematology</td>
<td>CBC Sepsis</td>
<td>906</td>
<td>97.9%</td>
<td>≥90% within 15 minutes</td>
</tr>
<tr>
<td>Microbiology</td>
<td>CMV PCR</td>
<td>1938</td>
<td>99.3%</td>
<td>≥90% within 96 hours</td>
</tr>
<tr>
<td>Mitochondria</td>
<td>RCE Fibroblast</td>
<td>18</td>
<td>100%</td>
<td>≥98% within 90 days</td>
</tr>
<tr>
<td>Precision Diagnostics</td>
<td>Fragile X</td>
<td>240</td>
<td>93.3%</td>
<td>≥90% within 10 days</td>
</tr>
</tbody>
</table>

List is not inclusive of all turn-around times monitored. In the event the monthly average does not meet the goal, events are investigated to determine the root cause and corrective/preventative action is established as needed.

Blood Culture Contamination Rates

Microbiology Blood Culture Contamination Rate

2020

Goal Less Than 2.0%

Total blood cultures performed: 8,020

% contamination rate = 1.2%
Anatomic Pathology

Anatomic Pathology provides the following services:
- Autopsy
- Autopsy consultation
- Bone marrow
- Cytology
- Electron microscopy
- Flow cytometry
- Molecular
- Surgical pathology
- Surgical pathology consultation

Transfusion Medicine - Donor Center Collections

Blood Donor Center is located at the Anschutz Campus. Collections include:
- Whole blood units
- Platelet units
- Research collections

Whole blood collections are also performed at mobile sites. Platelet units are sold when a surplus exists to minimize waste.