Exhibit I: COVID-19 RT-PCR Testing Process Flow

Incoming Demand Encompasses:
- Individuals with symptoms
- Individuals with no symptoms with referral from PCP or health system
- Individuals with no symptoms and no referral

Footnotes:
1. Prioritization varies by laboratory
2. In cases of pooling, repeat processing for individual samples occurs if pooling outcome is positive
3. CDC requirement: Labs must report results to the state of individual’s residence within 24 hours of test completion
4. Missing data fields such as patient contact information results in additional processing time delays. Some labs contact patients directly, while others work through providers.
Exhibit II: Supply Chain Map—Material and Information Flows
Exhibit III: Michigan Internal State Dashboard to Assess Progress (Illustrative)*

*The internal state dashboards are for illustrative purposes only and do not represent actual data.
Exhibit III: Michigan Internal State Dashboard to Assess Progress—Continued (Illustrative) *

Laboratory Needs Assessment

- % Labs Surveyed
  - RNA Extraction Materials
  - Testing Kits
  - Standalone Reagents
  - Staff
  - Storage
  - PPE

Greatest Need

- Hospital Labs
- Commercial Labs
- Academic Labs

Days of supplies to process samples within three business days
- Urgent Need (1 day)
- 2–4 Days
- 5–7 Days
- 8–10 Days
- 10–12 Days
- > 12 Days

Days of supplies to collect samples up to facility’s capacity
- Urgent Need (1 day)
- 2–4 Days
- 5–7 Days
- 8–10 Days
- 10–12 Days
- > 12 Days

MDHHS Regional Laboratory System

- Laboratory Region
  - Region 1: Kent County
  - Region 2: Saginaw County
  - Region 3: Kalamazoo County
  - Associate Members: Oakland, Detroit, Genesee

- Status
  - Low Risk
  - Moderate Risk
  - High Risk

Risk factors may include recent outbreaks, demand forecasts for week, average turnaround time for labs in the region, and local public health needs assessment for the given week.

*The internal state dashboards are for illustrative purposes only and do not represent actual data.
Exhibit IV: Track Scope and Stakeholders for COVID-19 Testing Management (Illustrative)

State Level COVID-19 Tests Management Team/Senior Leadership

Track Descriptions

1. Labs track: Use a visual dashboard (e.g., Figure I) to monitor real-time test turnaround times, lab capacity and constraints, and orchestrate the network to optimally load balance and reduce overall turnaround time.

2. Collection Points track: Use a visual dashboard (e.g., Figure II) to monitor real-time collection point capacity and constraints, identify hot spots, and improve equitable access to testing.

3. Manufacturer Visibility track: Develop demand projections, plan supply requirements, and make firm multi-period medium-term commitments with manufacturers for sample collection supplies, test kits, and reagents.

4. Demand track: Assess coverage gaps, monitor hotspots, disease progression, business re-openings, etc. to better assess future capacity needs.

5. Budgeting and Finance track: Ensure adequate budgetary allocations to make commitments for medium-term supply needs and new capacity investments.

6. Health Behavior Education track: Develop behavior change strategy recommendations to help institutions and business manage.

7. Communication track: Develop effective communication strategies appropriate for different stakeholders on topics such as education/awareness, progress highlighted through select performance indicators (e.g., volume of tests, turnaround times, positivity rates, etc.), and updates to role expectations (e.g., federal & local governments, laboratories, providers, payers, academic institutions, businesses, and population).