Gunnison CoVID19 Incident Data Management Database
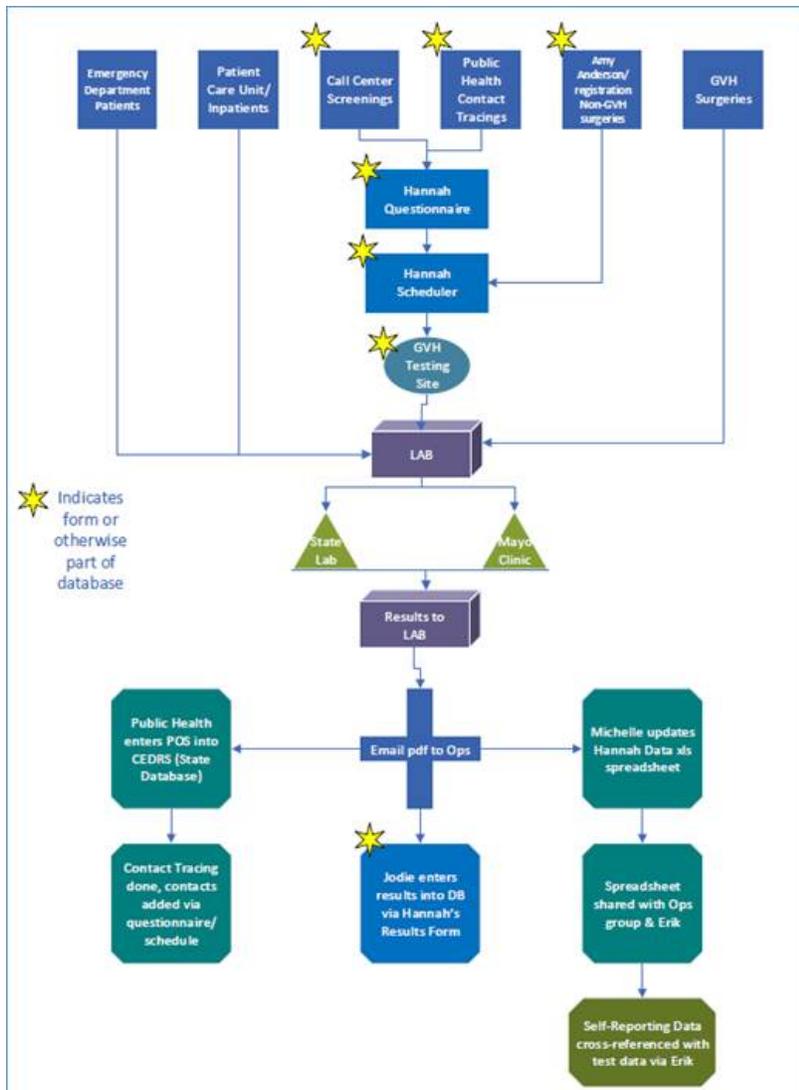**Request for Proposals**
Final

We are looking for firms that can build a Gunnison CoVID19 Incident Management Data Management System (DMS). Responses and queries should be sent to Ian Billick, ibillick@gmail.com, and include: cover letter, description of relevant experience, list of key individuals on project team and relevant experience, anticipated schedule/timeline, a list of additional questions, approximate costs (including billing rates of key individuals), and the preferred billing method (e.g., time and materials, fixed bid). Proposals should address how cost uncertainty and scope creep will be managed. We will begin reviewing responses on Friday, July 20th, though reserve the right to accept responses after that date. On or after July 20 we will develop a short list of firms to hire. At that point we will answer any questions the firms have, providing enough detail for firms to reduce uncertainty on cost estimates, and take final bids.

The goals of the DMS are to:

1. Provide the Incident Management Team (IMT) information needed to assess critical metrics concerning the status of CoVID19 in Gunnison County, including tracking PCR results (PCR tests, antibody tests, hospitalization data, and self-report data).
2. Provide the Operations Section of the Incident Management Team database support to manage and schedule PCR/swab testing across the range of locations at which individuals are being tested, including the public health testing sites, Gunnison Valley hospital, local clinics, and the emergency department. This database will include collecting contact/demographic information, scheduling tests, tracking test results, and support the ability of public health to follow up with individuals who have missed tests.
3. Provide timely transparency to the public on metrics used by Gunnison Public Health to establish public health orders.
4. Provide the Incident Management Research Group the data they need to analyze and contextualize disease transmission dynamics within Gunnison County to inform public health decision-making.

To achieve these goals we will build a system that has the following functionalities or characteristics:

1. Security to protect confidential patient information, with access controlled by Jodie Leonard.
2. HIPAA compliant.
3. Redundancy/back-up.
4. Documentation.
5. Enable multiple points of data entry via custom web-based forms (name, DOB, demographic, contact info) for patients who are getting PCR tests. The multiple points of data entry will include: the Gunnison County public health call/test center, GVH surgeries, non-GVH surgeries, public health contact tracking, emergency department, patient care center, and local clinics.
6. Development of a robust unique identifier, such as DOB/name, that allows multiple records for the same individual to be easily tracked across multiple points of record entry involving different organizations (e.g., local clinics and hospitals).
7. Allows patients to be scheduled for testing and tracked at the public health call center

Emergency Department Patients | Patient Care Unit/Inpatients | Call Center Screenings | Public Health Contact Tracings | Amy Anderson/ registration Non-GVH surgeries | GVH Surgeries

Hannah Questionnaire

Hannah Scheduler

GVH Testing Site

LAB

⭐ Indicates form or otherwise part of database

State Lab | Mayo Clinic

Results to LAB

Public Health enters POS into CEDRS (State Database)

Email pdf to Ops

Michelle updates Hannah Data xls spreadsheet

Contact Tracing done, contacts added via questionnaire/ schedule

Jodie enters results into DB via Hannah's Results Form

Spreadsheet shared with Ops group & Erik

Self-Reporting Data cross-referenced with test data via Erik

8. Allows tracking of CoVID19 patient status as they move through the hospital system, including hospitalization status, transfers, and deaths.

9. Provides standardized and automated reports for the incident management team, Gunnison County's public dashboard (key metrics used to establish public health restrictions), and the operations team (the testing schedule, the results of PCR tests).

10. Allows entry of antibody results and associated information.

11. Allows for the importation of historic data and/or external data.

12. Provides visualization of the data both for the IMT and the public in the form of reports and dashboards (web-hosted).

13. Allows for custom querying of the raw data for the purposes of analysis by the Research Group and their collaborators.

Needed Services
1. Create data entry portals.
2. Build database.
3. Produce reports.
4. Create dashboards
5. Maintain system and create improvements as directed.

Additional Information
1. There is an existing system that defines most of the data entry needs as well as the database architecture.
2. There is a need to work with critical stakeholder groups to better define needed reports.
3. It is anticipated that there will be additional requested improvements once the database is online as Gunnison Public Health refines their needs.
4. The anticipated length of project is through Dec 31, 2020 w/ the possibility of extending every 6 months based on progression or regression of the COVID-19 pandemic.
5. The work must be done on a contract basis, with hiring subject to final review and approval of the Gunnison County Board of Commissioners.