STEWARDSHIP OF GENETIC SERVICES AT MICHIGAN MEDICINE

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SUMMARY

Michigan Medicine is in need of a comprehensive, coordinated approach to provision of genetic services, genetic testing stewardship, and a streamlined results management process that improves communication about genetic test results through use of the electronic health record (EHR). A task force of key stakeholders has been convened to assist with development of policies and procedures around genetic testing. The Genetic Services Task Force was organized to help streamline genetic services and coordinate stewardship of these resources at Michigan Medicine. This includes genetic testing oversight and adjudication of genetic services and practices to manage the increased need for genetic care provision across the health system. This group has met twice (March 6, 2020 and July 7, 2020), and a presentation has been given to leadership (March 10, 2020). This poster summarizes work done and the strategic vision created from this work.

STRATEGIC VISION OF GENETIC SERVICES TASK FORCE

There are six discrete components to the Genetic Services Task Force:

- Create policies around genetic testing and services
- Policies will streamline variability, supporting the evolution of best practices
- Establish committee to oversee testing approval
- Stewardship team reviews and endorses ensuring appropriate consultation has occurred
- Identify inappropriate testing and trim through implementation of workflow
- Identify current trends for inappropriate testing (duplication, omission of consult, non-traceable order for testing and results)
- Develop and implement workflow that supports standardized documentation and storage of results in the EHR
- Develop uniform consenting
- Patient education and expectations of testing; incidental findings
- Establish data use agreements
- Develop uniform reporting model
- Develop infrastructure to support result management workflow
- Address the need for workforce expansion
- Meet resource demands associated with increased clinical genetics care
- Increase testing capabilities and reduce send out testing; increase revenues
- Improve return on investment
- Include expansion of genetic testing; utilization of MMGL services

GOALS

- Provision of genetic services at Michigan Medicine will be deployed and adopted across the health system.
- Establish methodology for stewardship.
- Identify trends of egregious offenders and develop comprehensive education and workflows that will streamline and promote adoption.
- Stewardship team reviews and endorses ensuring appropriate consultation has occurred
- Ensure an accurate, available and updated testing database
- Establish a uniform consenting process, benchmarking best practices (tempus)
- Establish data use agreements
- Explore and develop results management infrastructure.
- Leverage Michigan Medicine-HITS platforms (MiChart)
- Expand medical genetics service line and acquisition of resources to meet the demands of clinical genetic care

VARIABILITY IN GENETIC TESTING BEHAVIORS

INTRAMURAL VS EXTRAMURAL TESTING

Utilize internal resources wherever possible
- MMGL is a full service diagnostic laboratory
- Physicians consult with Michigan Medical Genetics
- Increase revenue
- Decrease recreational testing

SAFETY & COMPLIANCE ISSUES

INTEGRATED APPROACH TO GENETIC TESTING

CONSENT

VARIANT RECLASSIFICATION

RESULTS MANAGEMENT

CASCADING TESTING

STEWARDSHIP

PATIENT

WORKFORCE PLANNING

TIMELINE & MILESTONES

1. March 6, 2020: kick-off meeting
2. March 10, 2020: presentation to UMHS Leadership (UL)
3. July 7, 2020: Follow-up meeting to establish subgroup aims and recommendations
4. July 31, 2020: Present report and recommendations to CEO
5. October, 2020: Re-convene and finalize deliverables
6. December, 2020: Go-live

NEXT STEPS

- Finalize recommendations from each subgroup
- Administrative mechanism
- Submit through the front door for review and approval.
- Go-live and implementation

TREND REPORTS

- Rationale for trend analysis
- Trends identified
- Recommendations

GENETIC SERVICES TASK FORCE MEMBERS:

- Donna Martin, MD, PhD (Chair)
- Executive Vice Dean for Academic Affairs
- Interim Chair of Department of Pediatrics
- Elke Forbes, MD, PhD (Co-Chair)
- Commentator Professor and Chair of Department of Pathology
- Dr. Jie Hong, PhD, MBA (Co-Chair)
- Associate Dean for Research Information Technology
- Professor of Anesthesiology
- Alphonso Ford
- Associate Professor, Lab Science
- Director of Laboratory Operations
- Dan Mendenhall
- Associate Professor, Emergency Medicine
- Chief Medical Officer

GENETIC SERVICES FOCUS GROUP MEMBERS:

Focus Group 1
- Genetic counseling around genetic testing and services, roles and responsibilities
- Elke Forbes, Donna Martin, Susan Shneider, Amy Funderburk, Kristen Ward, Elke Forbes

Focus Group 2
- Recruitment of genetic counseling
- Jared Ashby, Jessica Stork

Focus Group 3
- Establish committee to oversee testing approval
- Jared Ashby, Jessica Stork

Focus Group 4
- Identify the most egregious offenders and trim through implementation of workflow
- Amy Funderburk, Kristen Ward

Focus Group 5
- Develop uniform reporting model
- Jared Ashby, Elke Forbes

Focus Group 6
- Address the need for workforce expansion
- Jared Ashby, Donna Martin

DATA STORAGE

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- Elke Forbes, MD, PhD
- Dr. Jie Hong, PhD, MBA
- Alphonso Ford
- Dan Mendenhall
- Jared Ashby
- Jessica Stork

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