



**MARYLAND**  
**Health Care**  
**Commission**

# Maryland Medical Care Data Base Data Request Application

Submitted By

**The Center For Population Health IT**  
**Johns Hopkins Bloomberg School Of**  
**Public Health**

STAFF REPORT AND RECOMMENDATION

MAY 19, 2022

PRESENTED BY: MAHLET NIGATU 'MAHI'



Data Release

Applicant

Project

Team

Review & Recommendation

Questions

## Process Components

COMAR

10.25.05

APPLY

(pre and main)

PUBLIC  
COMMENT

DRAC  
Review

DUA

(Data Use Agreement)



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Review & Recommendation

Questions

## ▶ Previous

- Use of Claims and EMR to Assess Trends and Correlates of Quality Measures for Contraception Care
- Evaluation of the Total Patient Revenue Program in Rural Maryland Hospitals
- Developing a Geo-Social Analytic Platform for Risk Prediction and Visualization (GSAP): A pilot research project
- Marginal and Vulnerable Populations within the Patient-Centered Medical Home: Addressing Gaps in the Literature with Evidence from a Statewide Multi-Payer Pilot Scheme
- Contraceptive Price Elasticity in Maryland: Estimating Price Effects on Contraceptive Use and Unplanned Pregnancy

## ▶ Current

Advancing Maryland's Statewide Suicide Data Warehouse to Improve Individual and Population-level Mortality Prediction and Prevention

## ▶ Study Relevance

Increased interest in developing predictive models of individuals at risk for suicide. NASEM is currently hosting webinars on using data science approaches to identify individuals, populations, and communities at high risk for suicide.



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Review & Recommendation

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### Project Purpose

- ▶ Refresh of the Maryland Suicide Data Warehouse and acquiring new data from different sources and replication of descriptive findings,
- ▶ Develop and assess hypothesis-driven techniques to predict suicide death
- ▶ Explore hypothesis-generating use cases of the MSDW, and
- ▶ Evaluate the generalizability of data sources and methods.

### Project Data Sources

- ▶ MCDB data will be primarily linked to OCME data using CRISP hashed/encrypted ID.
- ▶ The Health Services Cost Review Commission (HSCRC), Johns Hopkins Health System, Anne Arundel Medical Center, Peninsula Regional Medical Center
- ▶ Veteran's Health Administration of Maryland, and CRISP Insight.

### Proposed Project

- ▶ Compare individuals who have died by suicide to those who have died by other means as specified in the OCME data.
- ▶ Build a complete control population as recommended by the National Institute of Mental Health (NIMH).
- ▶ Develop more generalizable prediction model.
- ▶ Develop the predictive analytics using statistical approaches to identify suicide deaths.
- ▶ Construct a retrospective case-control study exploring suicide as recorded by the medical examiner and other causes of death.
- ▶ Analysis will be stratified by race, sex, insurance type and other attributes as needed.

### Project Funding Source

Grant funding- National Institutes of Mental Health (NIMH)



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**Project**

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Review & Recommendation

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### Data Requested

- MCDB Eligibility, Professional Services, Institutional Services, and Pharmacy Services Claims data files for years 2016 - 2020
- Medicaid Managed Care Data for years 2016 - 2020.

### Project Outcome

- ▶ The primary approach of disseminating will be through published peer-reviewed manuscripts and conferences.
- ▶ Additional aggregate results may be shared with the funding agency (NIMH) as requested per NIH guidelines.

### Project Time Period

- ▶ Two-year time period, from 2022 through 2024.

### Data Fees

- ▶ Applicant will pay the standard fee of a total non-profit/academic rate for the requested MCDB data would be \$12,000 per year of data x 5 years of data for Medicaid and Commercial including tier-based discount= \$96,000. New fee structure will become effective June 16, 2022, after 30 day notice.



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Project

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Review & Recommendation

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- ▶ Hadi Kharrazi (Associate Professor / Co-Director)
- ▶ Thomas Richards (CPHIT Technical Director)
- ▶ Elyse Lasser (Research Associate/Center Coordinator)



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Project

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**Review & Recommendation**

Questions

### Review

- ▶ Meets the regulatory requirement of research use because the aim is to leverage the unique data types linked by MSDW to improve suicide death predictions among a more generalizable patient population of Maryland.
- ▶ Meets the regulatory requirement of being in the public interest as:
  - ▶ MCDB and other data could be linked to data from suicide prevention efforts to help identify which interventions are most effective in preventing suicidal behaviors, and who benefits from specific interventions and what under what conditions.
  - ▶ The predictive models of suicide death will be in the public domain and can be adopted by various health systems and insurers.

### Recommendation

- ▶ Staff recommends that the Commission vote to approve the MCDB Data Request Application submitted by the Applicant, The Center For Population Health IT Johns Hopkins Bloomberg School Of Public Health and provide access to the requested data.
- ▶ Staff recommends that the Commission approve the Applicant's request for use of the requested data until 12/31/2024, beginning on the dates the Data Use Agreement is executed and the new tier-based fee schedule is effective (tentatively June 16, 2022).



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**Questions**

# Questions for the project team or staff