**POPULATION HEALTH INFORMATICS GROUP - 3**

1. **Names of Group Members** 
   1. Mohammed Yushawu Abdulai Student number M17144312
   2. Peter Mvuma Student number M25437243
2. Emerging area to be explored in this project is **Health Policy Informatics:** Applying informatics to shape and analyze health policies.
3. Tentative title of the research project **“*The role of Electronic Health Records (EHRs) on Public Health data driven decision making in Michigan State Department of Health and Human Services (MDHHS)”***
4. **Population(s) you plan on targeting for your research project**

In our project, the primary target population will include key stakeholders that work at and within the Michigan State Department of Health and Human Services. The following will therefore be our proposed target population.

* 1. Public Health officials at the MDHHS.
  2. Healthcare providers (Physicians, nurses and midwives) sampled within the healthcare delivery system in Michigan State.
  3. Allied healthcare professionals such epidemiologist and data analysts within the MDHHS.

1. **Tentative abstract**

Electronic health records facilitate seamless care coordination (Implementing Consolidated-Clinical Document Architecture for Meaningful Use Stage 2, April 5 2013). The adoption of electronic health records (EHRs) has increased fivefold among physicians and tenfold among hospitals since 2009. This made it possible for patients and their caregivers to obtain vital personal health information digitally, as well as for electronic public health data interchange, electronic prescription, and interoperable electronic health information exchange (Barker et al, 2024).

In this project our main objective is to find out how Michigan Department of Health and Human Service utilize electronic health records to in public health decision making. Specifically, we will focus on how the use of EHRs data impact decision making, interoperability with other systems, and challenges

1. **Reference**
2. Barker W, Chang W, Everson J, Gabriel M, Patel V, Richwine C, Strawley C (2024). The Evolution of Health Information Technology for Enhanced Patient-Centric Care in the United States: Data-Driven Descriptive Study, J Med Internet Res 2024;26:e59791, URL: <https://www.jmir.org/2024/1/e59791>, DOI: 10.2196/59791
3. Barth, O., Anderson, B., Jones, K., Nickles, A., Dawkins, K., Burnett, A., & Quartermus, K. (2024). An Innovative Approach to Using Electronic Health Records Through Health Information Exchange to Build a Chronic Disease Registry in Michigan. *Preventing chronic disease*, *21*, E41. https://doi.org/10.5888/pcd21.230413M. E. Hossain, A. Khan, M. A. Moni and S. Uddin, "Use of Electronic Health Data for Disease Prediction: A Comprehensive Literature Review," in IEEE/ACM Transactions on Computational Biology and Bioinformatics, vol. 18, no. 2, pp. 745-758, 1 March-April 2021, doi: 10.1109/TCBB.2019.2937862.
4. Implementing Consolidated-Clinical Document Architecture (C-CDA) for Meaningful Use Stage 2 (2013,April 5). URL:

<https://www.healthit.gov/sites/default/files/c-cda_and_meaningfulusecertification.pdf>