THE UNIVERSITY OF UTAH

Utah Population Database (UPDB)
2023 Biennial Internal Security Audit

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Jared DeWitt, MS | UPDB Senior Security Analyst



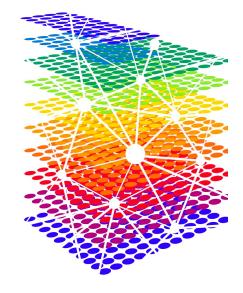




Overview of UPDB

- Biomedical & Health-Related Research
 - Understand disease and improve health
 - Discoveries relevant to families in Utah

- Clustering of diseases in families
 - Inheritance of a disease / multiple diseases
- Risk factors for disease or outcomes
 - Genetic, Environment, Social Determinants
- Prevention
 - National cancer screening guidelines
 - Genes discovered in Utah





Security Framework

Special Publication 800-171 Rev. 2

- Created for contractors with federal government funding to safeguard sensitive data
- Widely used to protect non-classified sensitive information
- 110 security protections

https://csrc.nist.gov/pubs/sp/800/171/r2/upd1/final



Audit Methodology

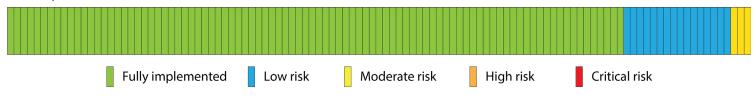
- System Security Plan
 - Review and test each security protection
- Plan of Action & Milestones
 - Solutions and resources
 - Risk assessment based on NIST SP800-30 guidelines https://csrc.nist.gov/pubs/sp/800/30/r1/final
- Dynamic documents to continually improve security



Summary of Findings

- 91 protections fully implemented and effective
- 19 protections need additional steps for full implementation
 - 16 low risk, 3 moderate risk
 - 0 high risk, 0 critical risk







Commitment

- Complete planned actions and milestones
- Maintain cybersecurity maturity with NIST SP800-171 guidelines
- Conduct ongoing assessments
 - Identification of emerging cybersecurity risks
 - Effective implementation of security protections

Key Participants

Utah Population Database

- Nicola Camp | Director
- Jared DeWitt | Senior Data Security Analyst

University of Utah Information Security Office

- Trevor Long | Director, Governance, Risk & Compliance
- Laurent Lecointre | Senior Data Security Analyst

Huntsman Cancer Institute Computing and Technology Group

Tony Murillo | Director

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- Caren Frost | Associate Vice President
- Jahn Barlow | Director, Resource for Genetic and Epidemiologic Research



