Policy Implementation

Emergent Topics in Implementation Science and GPPH

September 5, 2024

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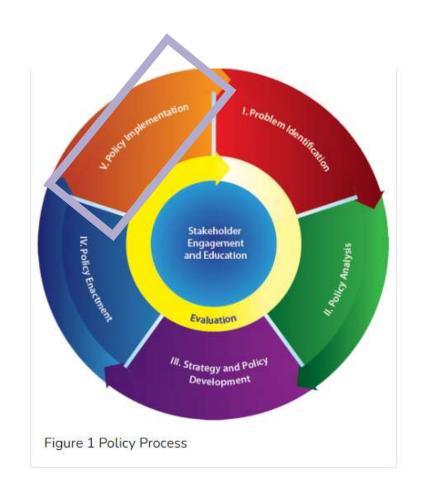
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Centers for Disease Control & Prevention (CDC): Policy Implementation

- 'Policy' defined as law, regulation, procedure, administrative action, incentive, or voluntary practice of governments and other institutions
 - Influence systems development,
 organizational change & individual
 behavior to promote health improvements
 - Consider policies in different sectors and multiple levels
 - Federal law prohibits lobbying by CDC
- CDC Policy Process
 - Policy Implementation: translate the enacted policy into action, monitor update, and ensure full implementation
 - Example: build capacity of states, tribes and communities to implement policy



https://www.cdc.gov/policy/paeo/process/index.html

Example of R21 Funded Grant in Policy Implementation for Young Cancer Survivors

R21: Policy Implementation Research on Health Benefit Mandates for Fertility Preservation Services to Improve Access to Care in Young Cancer Survivors

Principal Investigator

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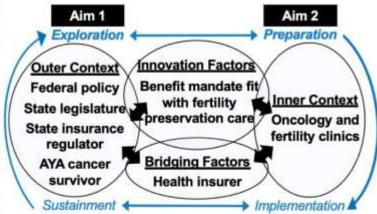
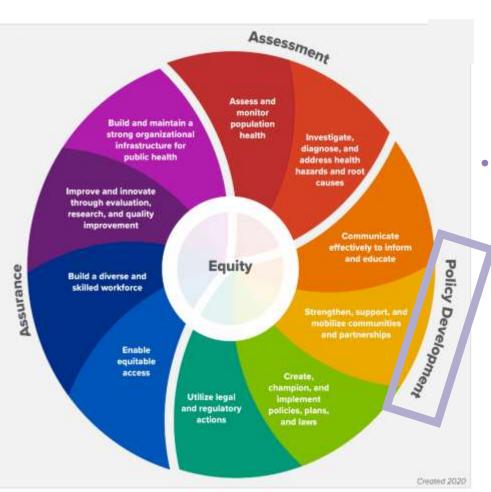


Figure: Multi-level contextual assessment (Aim 1) and preparation (Aim 2) for implementation of health insurance benefit mandate to facilitate fertility preservation in cancer survivors

- Investigating how state laws require health insurance plans to include fertility preservation benefits
- Mixed methods study of implementation of multiple levels including insurance regulators, insurers and clinics
 - Guided by EPIS
 - Develop implementation strategies to influence how policies facilitate uptake of fertility preservation care

https://cancercontrol.cancer.gov/is/funding/sample-grant-applications

Precision Public Health & Policy Development: Core Public Health Function and Essential Services



 Policy Development: Formulation of standards and guidelines, in collaboration with stakeholders,
 which promote the appropriate use of genomic information and the effectiveness, accessibility, and quality of genetic tests and services

https://phgw.org/

https://www.cdc.gov/publichealthgateway/

nature medicine

Review article

https://doi.org/10.1038/s41591-024-03098-0

Precision public health in the era of genomics and big data

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BOX 1

Aligning core functions of public health with precision public health

Core public-health functions and services are briefly explai case examples in the PPH context^{6,19,96,116}. **Policy development:** using genomics, big data, modeling and analytics to develop the right policy, program and educational interventions for the right populations at the right time

- Communication and education: educating the public about the importance of genomics and family health history in disease prevention¹⁰⁹
- Community partnerships: engaging and supporting diseasespecific support organizations to reduce population disease burden (for example, the global summit on familial hypercholesterolemia)¹¹⁰
- Targeted policies: for example, The Evaluation of Genomic Applications in Practice and Prevention (EGAPP) initiative
- Legal and regulatory actions: for example, Affordable Care Act coverage of the US Preventive Services Task Force recommendations on BRCA testing for hereditary breast and ovarian cancer¹¹²

Proposed Outcomes for State Public Health Cancer Genomics Programs

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ORIGINAL RESEARCH ARTICLE

Genetics inMedicine

Proposed outcomes measures for state public health genomic programs

Debra Lochner Doyle, MS, LCGC¹, Mindy Clyne, MHS, CGC², Juan L. Rodriguez, MPH, MS², Deborah L. Cragun, PhD, MS⁴, Laura Senier, MPH, PhD⁵, Georgia Hurst⁶, Kee Chan, PhD⁷ and David A. Chambers, DPhil²

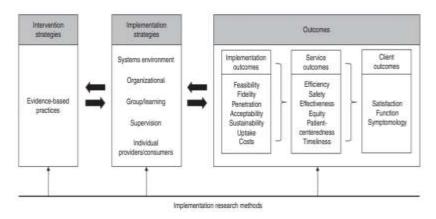


Figure 1 The implementation framework developed by Proctor et al.2

- Utilized modified implementation framework from Proctor et al & Silvey et al
 - Access to services (implementation outcomes)
 - Health care performance (service outcomes)
 - Public health infrastructure (client outcomes)
- Developed 38 proposed outcome measures for evidence-based approaches to delivery of genetic/genomics screening population level
 - Lynch syndrome screening for all colorectal cancers
 - HBOC family history screening
- 3 top priority outcomes for all states



Outcome category	Performance objective	State outcome measure	Data source
1. Top-priorit	y outcomes all states are encouraged to pursue	e:	
Access to se	rvices		
	Increase the proportion of women with a family history of HBOC/LS who receive genetic counseling (reworded version of HP2020 objective)	Number of women with a family history of HBOC/LS who receive genetic counseling	National Health Interview Survey by CDC/NCHS; state BRFSS; state PRAMS cancer module; claims data
	Increase the proportion of persons with newly diagnosed CRC who receive genetic testing to identify LS (or other familial CRC syndromes (HP2020 objective)	Number of persons with newly diagnosed CRC who receive genetic testing to identify LS (or familial CRC syndromes)	State cancer registries; SEER; state BRFSS
Health-care	performance		
	Increase the number of family members (per family) tested for HBOC/LS through cascade screening	Number of family members screened following identification of HBOC/LS mutations	Claims data; data collected from genetics providers in clinics across the state; number of single mutation tests ordered in state as reported by ~ 5 largest cancer genetic testing laboratories
2. Outcomes	states can readily perform:		
Implementat	tion feasibility		
	Mechanisms exist for adequate billing and reimbursement of services	Number of health plans with existing reimbursement for services	CPT codes; payer policies; licensure data; hospital credentialing data
	Hospitals have the infrastructure needed to conduct universal tumor screening (i.e., pathology, tracking, genetic counseling, and follow-up to ensure effectiveness)	Number of hospitals with the following infrastructure: pathology, tracking systems, counselors, follow-up procedures	Survey data

• Additional resource: Implementing Cancer Geonomics in State Health Agencies: Mapping Activities to an Implementation Science Framework, Green et al, Public Health Genomics, 2020

Helpful Resource: Genetic Policy Hub (GPH)

- Developed by National Coordinating Center for Regional Genetic Networks
 - Supported by HRSA funding
- Includes policy statements from national organizations
- Includes legislation and regulation at state and federal level
- Includes Medicaid coverage policy information for each state



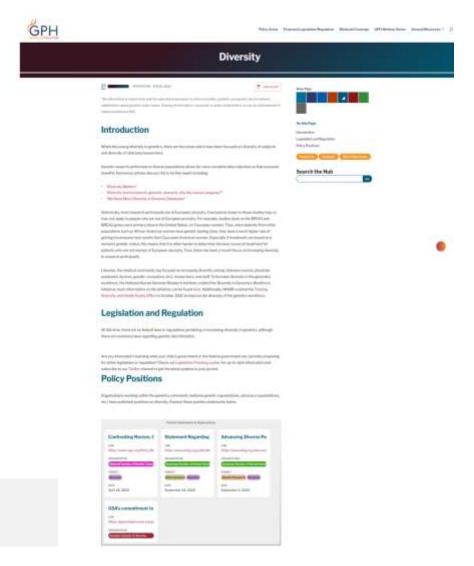


https://geneticspolicy.nccrcg.org/

Genetics Policy Hub (continued): Policy Positions

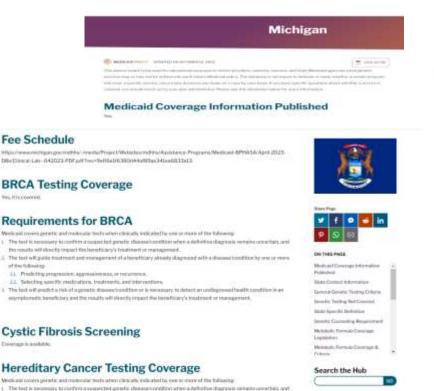
- Over 25 genetic policy areas
 - Includes short briefs on each topic
 - Links to relevant articles & resources
 - Links to policy positions
 - Summary of specific laws and regulations
- Policy positions from national professional organizations and advocacy organizations
 - Such as ACMG, NSGC, ISONG, ASHG, etc

https://geneticspolicy.nccrcg.org/policy-area/diversity/



Genomics Policy Hub (continued): State Genetic/Genomics Medicaid Policies & Legislation

https://geneticspolicy.nccrcg.org/ medicaid-policy/michigan/



https://geneticspolicy.nccrcg.org/legislativepolicies/



Lynch Syndrome Testing Coverage

the results will streetly impact the beneficiary's treatment or management.

51 Produting progression, aggressionness, or recurrence 1.2. Selecting concilic rendications, treatments, and atterventions.

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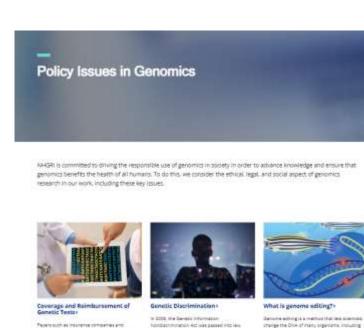
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Policy Issues in Genomics: National Human Genome Research Institute (NHGRI) Resource

- Multiple up-to-date resources on policy issues related to ethical, legal and social (ELSI) aspect of genomics research
 - Coverage & reimbursement of genetic tests
 - Genetic discrimination
 - Genome editing
 - Health disparities
 - Informed Consent
 - Intellectual property in genomics
 - Investigative genomics
 - Population descriptors in genomics
 - Privacy in genomics
 - Regulation of genetic tests
 - Synthetic biology





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Human Subjects Research

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participants must comply with regulations that
protect the rights and walker of the participants.



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Informed Commits

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https://www.genome.gov/about-genomics/policy-issues

NHGRI Resource (continued): Genome Statue and Legislation Database

- Contains statues and bills introduced in 2002-2024 U.S. state legislative sessions
 - Search by topic(s)
 - AI & Genomic Data
 - Biomarker testing
 - Coverage and reimbursement
 - Genetic data storage (medicine and industry)
 - Genetic discrimination
 - Gene patents
 - Genetic data & law enforcement
 - Neonatal sequencing
 - Pharmacogenomics
 - Privacy
 - Use of residual newborn screening specimens

- Search by state(s)
- Search by bill status
 - Died
 - Enacted
 - Statute
 - Introduced
 - Pending
 - Passed House
 - Passed Senate
- Updated monthly

International Public Health Genomic Policy Considerations: Example of Genetic Discrimination

Annual Review of Genomics and Human Genetics
Looking Beyond GINA: Policy
Approaches to Address Genetic
Discrimination

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https://gdo.global/

M Northwestern Medicine
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- Worldwide review of laws, policies and strategies to prevent genetic discrimination
- Significant variability among continents & countries
 - North America & Europe- extensive policy-making activities
 - Australia, Asia, and South America- moderate policy-making activities
 - Middle East & Africa- minimal policy-making activities
- Four broad categories of countries:
 - Broad human rights-based prohibition
 - Specific legal prohibitions in specific domains
 - Moratorium with government oversight in specific domains
 - Traditional legal protection

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Questions?

Thank you!