

A pan-Nordic clinical consent framework for genetic testing

Oda Bakken, Nordic PerMed Law

Sharmini Alagaratnam, Nordic Alliance for Clinical Genomics



Nordic Alliance for Clinical Genomics

- Independent NGO, not-for-profit Nordic association
- Work together and learn from each other to lift performance standards
- Aim at responsible sharing of trustworthy data for improved diagnosis and treatment, and as a resource for research

NORDIC PERMED LAW

- Independent NGO, not-for-profit, voluntary Nordic organisation
- Nordic cooperation with respect to legal issues and jurisprudential research on personalised medicine
- Build bridges between legal, medical and technological communities and across sectors
- Create arenas for public debate

Why consent for genetic testing?

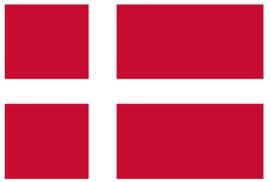
Needs that are unmet by today's consent approaches, including:

- Possibility of incidental and/or secondary findings
- Incomplete medical knowledge may need reanalysis and recontact
- Data sharing needed to provide best quality of care
- Potential ripple effects for family members

Exemplifies the paradigm shift that will come to many if not all disciplines of medicine

Motivation & aim

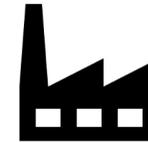
- Development and adoption of a harmonized consent framework as a mechanism to accelerate genomic data-sharing initiatives across the Nordic countries.
- Adoption may represent the first cross-border harmonized consent
- As the leading precision medicine initiative in the Nordics, NACG is well-positioned to influence the adoption of harmonized clinical consent practices across the Nordic countries in genetic testing.
- Develop partnerships across disciplines
- Develop Nordic legal collaboration
- Aligns with NPL aims and vision



**Nordic
Permed Law**



**Healthcare
institutions**



Industry



**Patient
groups**

Development timeline

**Nov 2019
NACG Workshop**
Value of a harmonized
consent framework
discussed

Mapping
Nordic legislations,
policies & best
practices

**May 2020
NACG Workshop**
Multidisciplinary
review, feedback

**Nov 2020
NACG Workshop**
Multidisciplinary
review, feedback



**Nordic Permed Law
partnership**

First prototype
Legal and clinical review

Second prototype
Legal, ethical, clinical and
patient group review

Survey

**Jan 2021
Publish on NACG
webpage**
Open for review

NACG Pan-Nordic clinical consent framework for genetic testing

1. Adult information packet
1. Adult consent form
1. Guidance to the process of delivering consent

Consent form

2-page document including:

- consent to test
- about the test
- potential outcomes
- data sharing
- research
- signature

Insert logo here

Clinical consent for genetic testing

In combination with the genetic testing information sheet, this form allows you to voluntarily express your consent for clinical genetic testing.

It is my choice to have genetic testing.

I, [NAME HERE] confirm that I have read the information sheet, spoken to a healthcare provider and received information about the genetic test protocol, what my results can contain, and how my data will be handled. I have had enough time to consider this consent form and have:

- > Had the opportunity to discuss genetic testing and its implications.
- > Been given access to information about genetic testing.
- > Been able to ask questions until I am satisfied.

ABOUT THE GENETIC TEST

- > Tests are based on current best-practice knowledge. This knowledge may change in the future.
- > If I change my mind, I can choose not to be told about the results.

POTENTIAL OUTCOMES

- > There are no guarantees that this test will find a cause for the condition(s).
- > The results may be of uncertain significance, meaning their significance is not currently understood.
- > Unexpected family relationships can be identified.
- > Further testing or information sharing may be needed to verify the results.
- > The results may identify secondary and/or clinically actionable findings, not related to those being sought.

Initial here if you want to be informed about secondary findings.

PROCESSING AND SHARING OF PERSONAL DATA

- > Sharing of my genetic data and related health information may aid in obtaining a diagnosis for myself and for others. However, this sharing may provide no direct benefit to myself or my family.
- > A preference not to share my personal data will not affect the service I receive.
- > I confirm that I am willing to share my personal data and have it actively communicated to [Free text: (prompt internal /external/international /European/ global)] networks relevant for aiding in the discovery of a diagnosis for myself or others, in accordance with GDPR.

Initial here if you are willing to share your data.

Insert logo here

RESEARCH

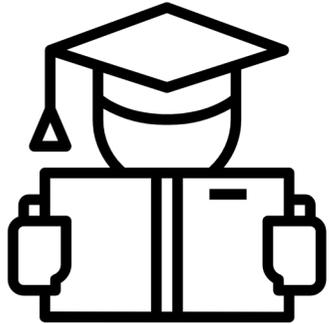
- > The opportunity to participate in research that may or may not be related to my reason for undergoing genetic testing may arise. These research opportunities may or may not provide any direct benefit to my health or treatment. All research will be approved by regulatory and ethical boards.

Initial here if you are willing to be contacted about/participate in future research opportunities.

CONSENT

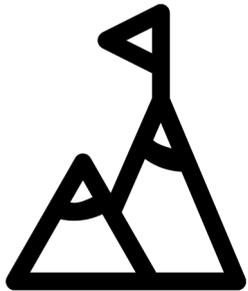
I understand that my DNA will be tested for changes in genes that may be associated with my condition. I provide consent to have genetic testing as summarized in this form. If not explicitly initialed for consenting to secondary findings, data sharing and research above, the default will be No.

Patient signature	
Date	DD.MM.YYYY
Patient identifying number	XXXXXXXX
Healthcare provider signature	
Date	DD.MM.YYYY
Healthcare provider	



Learnings

- Inclusive process for co-development
- Guided customization options
- Different Nordic legal frameworks at different maturity levels for supporting precision medicine



Remaining challenges

- Implementation will require extensive dialogue, trust & buy-in
- Complex interplay of laws regulating healthcare and privacy that is different in each country
- Supporting legally compliant technical solutions for digital dynamic consent needed

Food for thought

Is it appropriate to use consent as the only legal basis for processing of genetic data?



Next steps and future perspectives

- Consent framework open for comment on <https://nordicclinicalgenomics.org/resources>
- Virtual NACG consent workshop 25th November 2020 <https://nordicclinicalgenomics.org/events>
- v1.0 to be published Jan 2021 for download, translation and implementation
- Implications beyond Nordics
- Expanded research focus synergies with GA4GH DUO
- Validated need for a trusted digital consent solution

Questions, feedback or interested in joining?

Questions?

Oda Bakken bakoda@ous-hf.no

Sharmini Alagaratnam sharmini.alagaratnam@dnvgl.com



Both NACG and NPL are open for new members that will adhere to the organizations' guiding principles:

**NORDIC
PERMED
LAW**

[/www.nordicpermedlaw.org/](http://www.nordicpermedlaw.org/)

 **Nordic Alliance
for Clinical Genomics**

<https://nordicclinicalgenomics.org/>