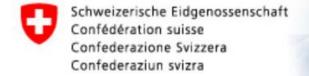


Switzerland: History and Context



- May 1992 Federal Constitution, Art. 119 Reproductive medicine and gene technology involving human beings
 - 119f "the genetic material of a person may be analysed, registered or made public only with the consent of the person concerned or if the law so provides"
- 1993 Swiss Academy of Medical Sciences
 - Directives médico-éthiques concernant les examens génétiques sur l'homme
- Oviedo Convention
 - Signed 1999; ratified 2008; entry into force 1.11.2008.
- Swiss federal Law on Human Genetic Testing 2004
 - Entry into force 1.4.2008







Princips de l'activited del strel de drete Federal Office of Justice

etg è la basa ed il limit da l'activitad dal stadi.

ivitad dal stadi sto esser en l'interess public ed en r

810.12

Loi fédérale sur l'analyse génétique humaine

(LAGH)

810.12

du 8 octobre 2004 (Etat le 1er av

English is not an official language of the Swiss Confederation. This translation is provided for information purposes only and has no legal force.

Bundesgesetz über genetische U (GUMG)

vom 8. Oktober 2004 (S

Federal Law on Human Genetic Testing (LHGT)

of 8 October 2004 (Status as of 1 April 2007)

Legge federale sugli esami genetici sull'essere umano (LEGU)

dell'8 ottobre 2004 (Stato 1° aprile 2007)

DE: GUMG FR: LAGH IT: LEGU ENG (no legal

force)

http://www.admin.ch/ch/d/sr/c810_12.html http://www.admin.ch/ch/f/rs/c810_12.html http://www.admin.ch/ch/i/rs/c810_12.html Google: federal LHGT



Article 2: Purpose

This law aims:

- to protect human dignity and personality;
- to prevent improper genetic testing and the improper use of genetic data;
- to ensure the quality of genetic tests and the way their results are interpreted.

Article 4 Non-discrimination

No one may be discriminated against on grounds of his or her genetic material.

Swiss Federal Law on Human Genetic Analysis 2004

Applications

- stipulates the conditions under which human genetic testing may be performed:
 - a. in the medical context;
 - b. in the context of employment;
 - c. in the context of insurance;
 - d. in the context of liability.
- Also the creation of DNA profiles for the purpose of determining the filiation or identity
- does not apply to genetic testing performed for research purposes.

Definitions

- genetic tests:
 - cytogenetic and molecular genetic tests
 - to determine hereditary characteristics of human genetic material [...]
 - and all other laboratory tests whose immediate purpose is to provide such information about genetic material.
- molecular genetic tests:
 - tests to determine the molecular structure of nucleic acids (DNA and RNA)
 - and the immediate gene product.



Prescription, counselling and consent

Diagnostic		Prenatal	"Family planning"	Pre- symptomatic
Prescription	by medical doctors who are authorised to practice their profession independently or under the supervision of such		no have received appropriate training	
Informed consent	Genetic and prenatal testing [] may not be performed unless the person [] has given his or her voluntary consent Written consent is not required.	Consent [] m	nust be obtained	in writing.
Genetic counselling	Genetic and prenatal testing [] may not be performed unless the person concerned has been provided with adequate information about the testing	directive genet qualified perso must be docun A « sufficient » allowed betwee	period of time nen the counselling pics for counse	rovided by a ng session nust be ng and the test.



Other aspects of the LHGT

- Sample reuse
- Disclosure of data
- Self-testing (IVDD)
- Penal considerations
- Creation of the Expert Commission (ECHGT, GUMEK)
- Direct-to-consumer testing : see www.bag.admin.ch/gumek or Google echgt gumek)
- Employment
 - Only in exceptional cases, with consent
- Liability
 - Only in exceptional cases
- Filiation etc
 - Outside the context of administrative proceedings, DNA profiling to determine filiation may be performed only with the written consent of the persons concerned

Insurance providers

- may not require either presymptomatic or prenatal genetic tests prior to providing insurance.
- may neither require the disclosure of, nor utilize, results of prior presymptomatic or prenatal genetic tests or tests for family planning purposes

Key exceptions:

- Life insurance >400'000 CHF
- Invalidity > 40'000 CHF





Law

Counselling & consent

Right to prescribe

Right to perform

Ordnance

Authorization

Laboratory requirements

ISO 15189/17025

LAMal

Reimbursement

EQA

Right to bill



Federal Analysis List (annex to Law on Health Insurance, LAMal)

Positive list:

- Diagnostic tests which are obligatorily reimbursed by (private) health insurance
- Diseases
- Techniques
- Tariffs
- Authorized specialization

Rev.	No. pos.	TP	Dénomination (Analyses de génétique moléculaire)	domaine de laboratoire
	2315.03	185	Déficit de l'alpha 1-antitrypsine	G
			Limitation: au maximum 3 fois par échantillon primaire, non cumulable avec 2910.00 supplément pour détermination complexe de génétique moléculaire	
	2315.04	185	Déficit de l'alpha-galactosidase (M. Fabry)	G
	2315.05	185	Déficit de la bêta-glucosidase (M. Gaucher)	G
	2315.06	185	Mucoviscidose	G
	2315.07	185	Diabète insipide	G
	2315.08	185	Intolérance au fructose	G
	2315.09	185	Galactosémie	G
	2315.10	185	Malabsorption du glucose-galactose	G
	2315.11	185	Déficit de la glycérol-kinase	G
	2315.12	185	Glycogénoses	G
	2315.13	185	Hémochromatose, familiale (HFE): recherche des mutations p.C282Y et p.H63D	CGH
			Limitation: au maximum 2 fois par échantillon primaire, non cumulable avec 2115.13 Hémochromatose, 2910.00 supplément pour détermination complexe de génétique moléculaire	

Summary



Positives

- The Law exists
- It is still possible to practice medical genetics!
- Theoretical protection against discrimination
- Protection against testing by labs without competence
- Authorization encourages
 EQA and accreditation

Negatives

- The reimbursement of tests is highly discriminatory
 - The Analysis List defining reimbursement is unprofessional, full of absurdities, and potentially open to abuse
- Accreditation is not formally required
 - The criteria for authorization are poorly defined and not enforced
 - Examples: EQA, professional titles, quality management

