

Collection and Processing of Personal Data in Insurance: New Practices & Challenges

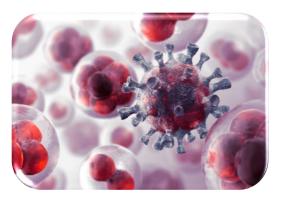
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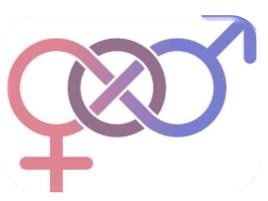
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INTRODUCTION









Data collected through wearables and interactive life insurance Data collected through online media and relevant challenges

Use of genetic data in health & life insurance Use of gender as a risk factor in motor vehicle insurance

TRADITIONAL VS NEW DATA SOURCES

Traditional data sources	New data sources enabled by digitilisation
Medical data (e.g. medical history, medical condition, condition of family members)	IoT data (e.g. driving behaviour (car telematics), physical activity and medical condition (wearables).
Demographic data (e.g. age, gender, civil and family status, profession, address)	Online media data (e.g. web searches, online purchases, social media activities, job career information)
Behavioural data (except IoT data) (e.g. Smoking, drinking behaviour, distance driven in a year)	Geocoding data (i.e. latitude and longitude coordinates of a physical address)
Population data (e.g. mortality rates, morbidity rates, car accidents)	Genetics data (e.g. results of predictive analysis of a person's genes and chromosomes)

in the EIOPA Report in May 2019

- Individual's right of access to insurance

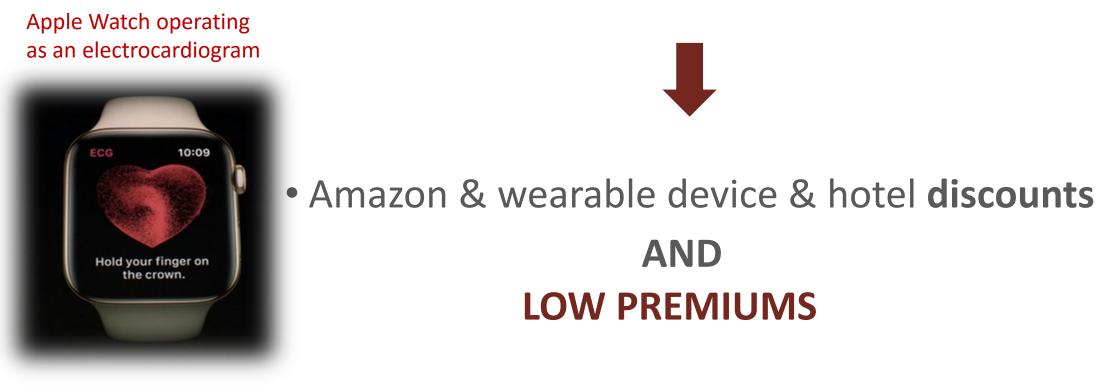
- Right not to know

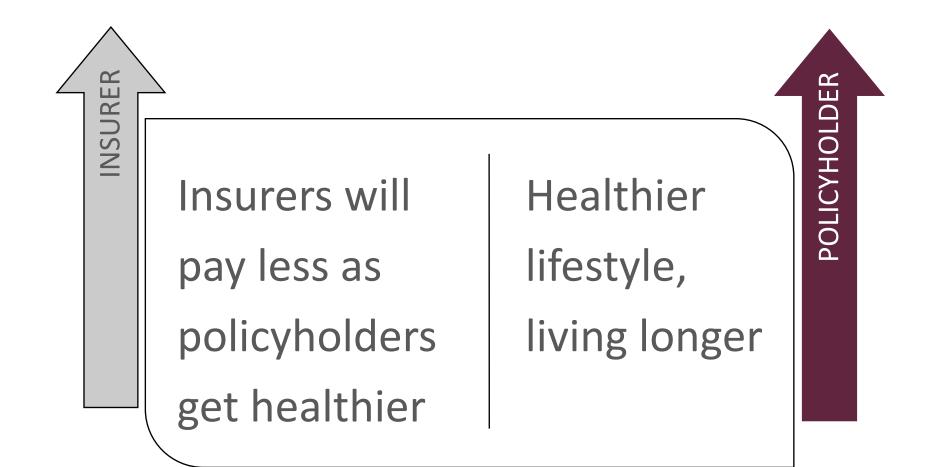
HOW TO STRIKE THE BALANCE?

Insurer's right of access to information for accurately assessing the risk

A leading life insurer in NZ will begin to offer 'Interactive Life Insurance' as from June 2019

• 'Health plan' offered to policyholders with targets to be met for a **healthier life**





Facts	Remarks
Access to the programme is voluntary	Those who are not in the programme may be unduly prejudiced because their premiums will be higher than those who are
Policyholders constantly hand over personal health- related data	 Collection for a «lawful purpose» Consent – informed and freely given
Premium discount where policyholders meet the targets	Reduction of risk
Non-compliance with the targets set?	 Aggravation of risk? → Higher premiums Creation of a pool of uninsurable people (those consistently not reaching the targets)

Privacy Act 1993 - Privacy Bill	General Data Protection Reulation (in force as of May 2019)	CoE Recommendation on the Processing of Health-Related Data for Insurance Purposes
Collection directly from the data subject	Rigorous concept of 'consent': freely given, specific,	Health-related personal data should not be processed for insurance
For a 'lawful purpose'	explicit, informed and unambiguous	purposes without the insured person's ' free , express and informed , written consent.'

«Would you be willing to have your life insurance premiums fluctuate based on the results of your yearly physical activity?»

- Yes: 22.7%
- No: 77.3%

«Would you be willing to wear a fitness tracker and submit reports to insurance companies if it means potentially receiving a better premium?»

- Yes: 40.7%
- No: 59.3%

«If you had to choose one, what background information source would you be most comfortable sharing with insurance companies?»

- Financial history: 33.4%
- Medical history: 27.6%
- DNA/genetic testing: 7.3%
- Fitness/health testing: 31.8%

Source: https://www.truebluelifeinsurance.com/insurtech-survey-results/

- Millennials and Gen Z respondents seemed to be the most receptive to the idea of integrating technology and insurance to receive a more balanced assessment of their overall risk.
- They are also the market who are the least likely to purchase life insurance in general.



Chief Executive of the Insurance Council New Zealand:

«The gathering of data across a wide range of technologies - from phones to GPS, fitbits and Google searches meant there was a higher potential for insurance to be more personalised in the future.»

 <u>https://www.nzherald.co.nz/personal-</u> <u>finance/news/article.cfm?c_id=12&objectid=11714793</u>, 2 October 2016

 Rough areas: difficulty in reaching recommended 10,000 steps a day.

Data on where you live and geographical profiling



 Information about lifestyle (e.g. alcohol consumption)

Lifestyle profiling



 They may be inaccurate but will be considered as relevant information

Things you post to attract 'likes'

- Risk assessment
- Detecting fraud



Privacy Act 1993 & Health Information Privacy Code 1994

If the insurers have reasonable grounds to believe that the information is publicly available, they will not need to collect the information directly from the insured

(s 6 Principle 2(2)(a); cl. 5 Rule 2(2)(f) respectively)

Unreliability of the information posted

• Disclosure on social media



• Disclosure prior to an insurance contract

Mere 'correlation' between...

- Risk factors, and
- Policyholder's behaviour

sufficient?

Indirect discrimination?

- Discrimination not on the basis of protected areas (race, ethnic origin etc.)
- But on the basis of proxies (ZIP code)

Challenges	Possible remedies
Unreliability of information posted on social media	CoE Recommendation on the Processing of Health-Related Data for Insurance Purposes, Principle 7: processing of information found in public domain or social media NOT permitted
Insufficiency of correlation-based risk assessment	Introduction of the requirement of causation ? <i>Test Achats v Conseil des ministres (2011) C-</i> <i>236/09 CJEU</i>
Indirect discrimination?	Can indirect discrimination be justified where risk assessment is based not only on correlation, but also on causation?

PROCESSING OF GENETIC DATA

«New Zealand Financial Services Council chief executive said [...] his organisation had established a life insurance committee focused on specific issues in insurance. Genetic testing and the effects of that in New Zealand was an issue that would be discussed. "It's not a big issue right now, right here but that's not to say it's not going to be.»» https://www.goodreturns.co.nz/article/976514818/insurers-tackle-geneti testing.html, 9 May 2019

PROCESSING OF GENETIC DATA

Whether insurers can request applicants to take predictive genetic tests

Whether applicants / policyholders would need to disclose predictive genetic test results to insurers



GENETIC TESTS

Diagnostic Tests

- Taken to confirm a diagnosis based on existing symptoms
- Not available for all genes & genetic conditions

Predictive Tests

- Taken to detect faulty gene patterns
- Taken for neuromuscular, cardiac, neurological conditions

NON-EXHAUSTIVE LIST OF GENETIC DISEASES



Applicant

Has a family history of coronary heart disease

Insurer

- Provides cover for life, health etc.

- If the Applicant carries the same risk as the family member

→ Affects Insurer's risk assessment

CONTROVERSIAL ISSUES

Before the insurance contract is concluded	After the insurance contract is concluded
Can the Insurer ask the Applicant to take a predictive genetic test?	Can the Insurer ask the Policyholder to take a predictive genetic test?
If the Applicant has predictive genetic test results, would they need to be disclosed?	 If the Policyholder takes a predictive genetic test and finds out a genetic disease, Would this constitute aggravation of the risk insured? Would the Policyholder have to disclose this information?
Can the Insurer refuse cover where the Applicant has a serious genetic disease?	Will the Insurer pay, if the Policyholder's loss results from a genetic disease?

WHERE TO LOOK FOR ANSWERS

Rules on Insurance Contract Law

- Rules on precontractual disclosure / representation
- Rules on aggravation of risk – notification of aggravation

Rules on Data Protection & Privacy

- Whether/how genetic information can be collected & processed by insurers
- Requesting predictive tests: breach of the right to privacy?

Rules on Discrimination

 Refusing cover if the risk is too high: Discrimination? Freedom of contract?

Soft Law

- Standard-setting Recommendations
- Instruments Applicable through Incorporation into Insurance Contracts
- Codes of Practice

Domestic Legislative Instruments

Conventions / Treaties

EXAMPLES OF INSTRUMENTS DISALLOWING GENETIC TESTING FOR UNDERWRITING PURPOSES

New Zealand Human Rights Commission Guidelines on Insurance	Health Funds Association of New Zealand (HFANZ) Policy on Genetic Testing
They represent the Commission's views on how the Human Rights Act should be interpreted.	Applies to the members of HFANZ, and only in the context of health insurance
5.2.	Rule 2
Insurance companies can request applicants to disclose the results of any genetic tests but cannot require them to undergo genetic testing	Health insurers will not ask applicants to undergo genetic tests.

Financial Services Council Code of Conduct, Rule 9: Members must treat customers fairly.

EXAMPLES OF INSTRUMENTS DISALLOWING GENETIC TESTING FOR UNDERWRITING PURPOSES

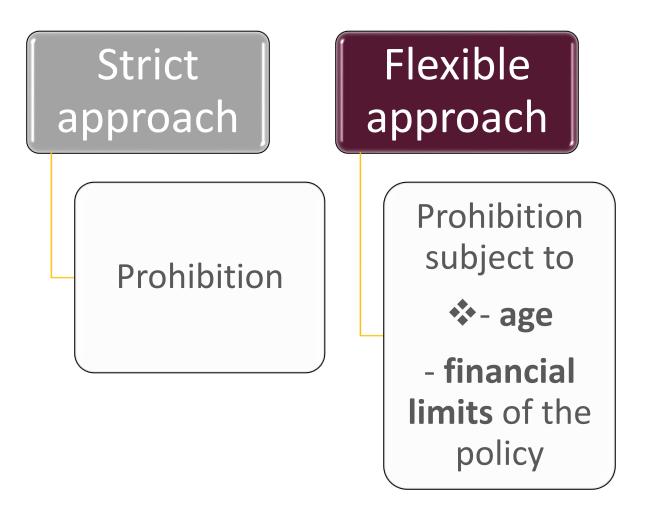
Council of Europe (CoE) Convention on Human Rights and Biomedicine No 164 (entry into force: 1999)	CoE Recommendation on the Processing of Health- Related Data for Insurance Purposes, Including Data Resulting from Genetic Tests (2016)
Legally binding on the CoE & other States having signed and ratified the Convention	Not binding
Article 12 – Predictive genetic tests	Principle 4
Tests which are predictive of genetic diseases may be performed only for health purposes or for scientific research linked to health purposes, and subject to appropriate genetic counselling.	Insurers should not require genetic tests for insurance purposes.

EXAMPLES OF INSTRUMENTS DISALLOWING GENETIC TESTING FOR UNDERWRITING PURPOSES

	Principles of European Insurance Contract Law (PEICL)	UK Government & Association of British Insurers Concordat and Moratorium on Genetics and Insurance
		 In force until November 2019 Fair right of access to insurance for consumers / fair right of access to information by insurers Adoption of the Concordat → Condition of the membership to ABI
•	Insurer may not ask the applicant/policyholder/person at risk to undergo a predictive genetic test unless:	 Only applies to predictive genetic tests

The person > **18 years old**, and The sum insured > **EUR 300,000**, or Money payable > **EUR 30,000** per year. Para 21(a): «customers will not be asked, nor will they be put under pressure, to take a predictive genetic test to obtain insurance cover»

POLICY APPROACHES DISALLOWING GENETIC TESTING FOR UNDERWRITING PURPOSES



INSTRUMENTS GOVERNING THE USE OF GENETIC DATA BY INSURERS

New Zealand Human Rights Commission Guidelines on Insurance	Health Funds Association of New Zealand (HFANZ) Policy on Genetic Testing
They represent the Commission's views on how the Human Rights Act should be interpreted.	Applies to the members of HFANZ, and only in the context of health insurance
5.2. Insurance companies can request applicants to disclose the results of any genetic tests	3. Health insurers may request that the results of existing genetic tests are made available at the time of application.
	4. Health insurers will not use genetic tests as the basis of preferred risk underwriting, (ie offering individuals insurance at lower than standard premium rates.)

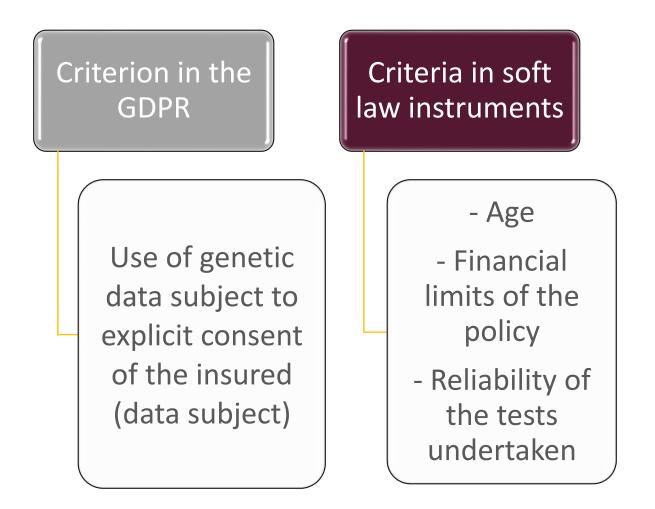
INSTRUMENTS GOVERNING THE USE OF GENETIC DATA BY INSURERS

General Data Protection Regulation (GDPR)	CoE Recommendation on the Processing of Health-Related Data for Insurance Purposes, Including Data Resulting from Genetic Tests (2016)
Binding - Governs data protection and processing in the EU	Not binding
Art 9: Its collection and processing is subject to the data subject's explicit consent	Para 16: Existing predictive data resulting from genetic tests should not be processed for insurance purposes unless specifically authorised by law.
Explicit consent must also be:	
- Freely given	If authorised by law, insurers have to
- Informed	→ inform the insured about how the premium has been calculated
Art 9.4: 4. Member States may maintain or introduce	ightarrow justify any additional premium
further conditions, including limitations, with regard to the processing of genetic data	ightarrow justify total or partial exclusion from insurance.

INSTRUMENTS GOVERNING THE USE OF GENETIC DATA BY INSURERS

Principles of European Insurance Contract Law (PEICL)	UK Government & Association of British Insurers Concordat and Moratorium on Genetics and Insurance
 Soft law instrument 2015 Apply where duly incorporated into insurance contracts 	 In force until November 2019 Fair right of access to insurance for consumers / fair right of access to information by insurers Adoption of the Concordat → Condition of the membership to ABI
Art 1:208: The insurer shall not ask the applicant, the policyholder or the person at risk to disclose genetic test results nor use the results of the test unless	Para 21(d): Persons will be required to disclose the results of predictive tests only if: The sum insured > £500,000 (life insurance) The sum insured > £300,000 (critical illness insurance)
The person > 18 years old , and The sum insured > EUR 300,000 , or Money payable > EUR 30,000 per yer.	The sum insured > £30,000 (income protection insurance) + The tests have been assessed by a panel of experts and approved by the Government + Insurers ask the person to disclose the information

POLICY APPROACHES ON THE USE OF GENETIC DATA FOR UNDERWRITING PURPOSES



The New Zealand Herald:

«Man changes gender on ID to get cheaper

car insurance»

<u>https://www.nzherald.co.nz/business/news/article.cfm?c_id</u>

<u>=3&objectid=12097734</u>, 30 July 2018



- «David said that last April he would have paid NZ\$5090 if he had insured his car as a man, but the premium dropped to just \$3857 after changing his gender to a woman.»
- "I'm a man, 100 per cent. Legally, I'm a woman," David said.
- He says he's saved about \$100 per month





Use of personal characteristics such as sex, race, age, sexual orientation, disability in risk assessment



Insurance industry's reliance on actuarial science and statistical data for risk rating



Classifying risk-bearers into (more or less) homogeneous groups and pricing their risk according to these classifications



Individuals' premiums calculated in reliance on statistical data that exists as to the groups in which the individual is placed

- Human Rights Act 1993 s 21: prohibited grounds for discrimination
 - Sex, race, disability, age, political opinion etc.
- Human Rights Act s 44(1): unlawful for those supplying 'facilities' to refuse to supply them to the persons by reason of any of the prohibited grounds of discrimination
- 'facilities by way of insurance' (s 44(2))
- Insurer's refusal to provide cover on the ground of sex, disability, age, race, political opinion etc. → prohibited

- Human Rights Act s 48 on 'Exception in relation to insurance'
 - Provided the different treatment is on gender, disability or age, and
 - Provided it relies on actuarial & statistical data relating to life expectancy, accidents or sickness, upon which it is reasonable to rely

→ Insurer's different treatment (eg. charging different premiums) in offering life insurance policies, accident insurance policies, other policies of insurance allowed under the Human Rights Act

• The Human Rights Commission Insurance Guidelines reiterate the above

- Differential treatment based on gender in motor vehicle insurance: allowed?
 - «other policies of insurance»
 - «actuarial & statistical data relating to ... accidents and sickness»
- Human Rights Review Tribunal, Avis Rent a Car v The Proceedings Commissioner (1998), Decision No. 16/98
 - Drivers aged between 21 and 24 (protected ground of 'age') may be subject to different car insurance premiums based on s 48
 - Where road accident statistics justify so

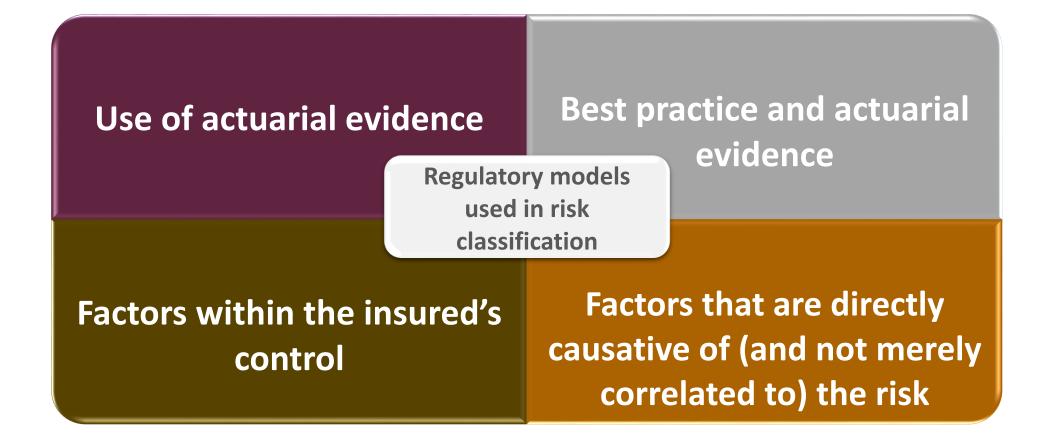
gender and health insurance

> Factors that are relevant in the provision of insurance because of a causal link between the risk of loss and the risk factor

Factors that are irrelevant in the provision of insurance political belief and motor vehicle insurance

gender and motor vehicle insurance Factors relevant in the provision of insurance due to existing actuarial evidence demonstrating correlation between the risk factor & the risk of loss

REGULATORY APPROACHES ON INSURERS' RELIANCE ON ACTUARIAL EVIDENCE



- Calculation of motor vehicle insurance premiums conventionally based on:
 - age
 - occupation
 - car driven
 - area where the insured lives
 - insured's claims history
 - number of drivers
 - gender

- Case C-236/09 Association Belge des Consommateurs Test-Achats ASBL and Others v Conseil des ministres [2011] ECR I-773
 - Decision of the Court of Justice of the European Union (CJEU)
 - Suit brought by a Belgian consumer rights group:

Whether insurers could classify drivers applying for motor vehicle insurance by gender

 The insurers operating in Belgium (and others, including those in the UK) had been permitted this behaviour in reliance on Art 5(2), Council Directive 2004/113 EC (the 'Gender Directive')

• Article 5 (1)

"Member States shall ensure that in all new contracts concluded after 21 December 2007 at the latest, <u>the use of sex as a factor in the calculation of premiums</u> and benefits for the purposes of insurance and related financial services <u>shall not result in differences in</u> <u>individuals' premiums and benefits."</u>

• Article 5(2)

"Notwithstanding paragraph 1, <u>Member States may decide before 21 December 2007 to</u> <u>permit proportionate differences in individuals premiums</u> and benefits <u>where the use of</u> <u>sex is a determining factor</u> in the assessment of risk <u>based on relevant and accurate</u> <u>actuarial and statistical data.</u> ..."

Article 21(1) of the Charter of Fundamental Rights of the European Union:

Any discrimination based on any ground such as **sex**, race, colour, ethnic or social origin, genetic features, language, religion or belief, political or any other opinion, membership of a national minority, property, birth, disability, age or sexual orientation shall be prohibited.

Clash between Art 5(2) of the Gender Directive and Art 21(1) of the Charter

• Decision of the CJEU in *Test Achats*:

- Art 5(2) of the Gender Directive was incompatible with the Treaty provisions requiring non-discrimination on which the Directive was based,

- Art 5(2) of the Gender Directive was a transitional provision \rightarrow **Member States were given until the end of 2012 to ensure that insurers** complied with the general obligation in Art 5(1) of the Directive and **move to a broadly gender-neutral model of insurance.**

An insured person connection has no influence on his gender, like his race and ethnic risk driver origin.

No obvious causal between gender and being a high

Impact of *Test Achats* ruling Insurance providers offering services within the EU (including UK insurers) may **no longer offer differential pricing based on gender even where the actuarial evidence is reasonable and reliable.**

- Principles of European Insurance Contract Law (PEICL)
- Soft law instrument modelled through the harmonisation of the insurance law principles applicable in EU Member States
- Final text: dated 2015
- Applicable if duly incorporated into insurance contracts

• Article 1:207 Non-Discrimination

(1) Gender, pregnancy, maternity, nationality and racial or ethnic origin shall not be factors resulting in differences in individuals' premiums and benefits

CONCLUDING REMARKS

- Handing over personal data: condition for more affordable insurance
- Informed consent is key: the policyholder needs to have understood all the implications of sharing its personal data with the insurer
- Reliance on statistical data: mere correlation or also causation required between risk factors and risk of loss?
- Processing of genetic data by insurers: requires to be comprehensively dealt with