

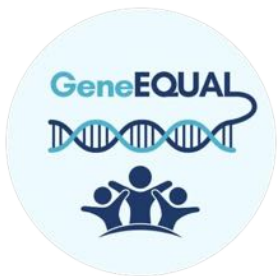
A little note about the slides



- These slides mainly follow Easy Read principles

PHOTO  SYMBOLS[®]

- We use many images from www.photosymbols.com

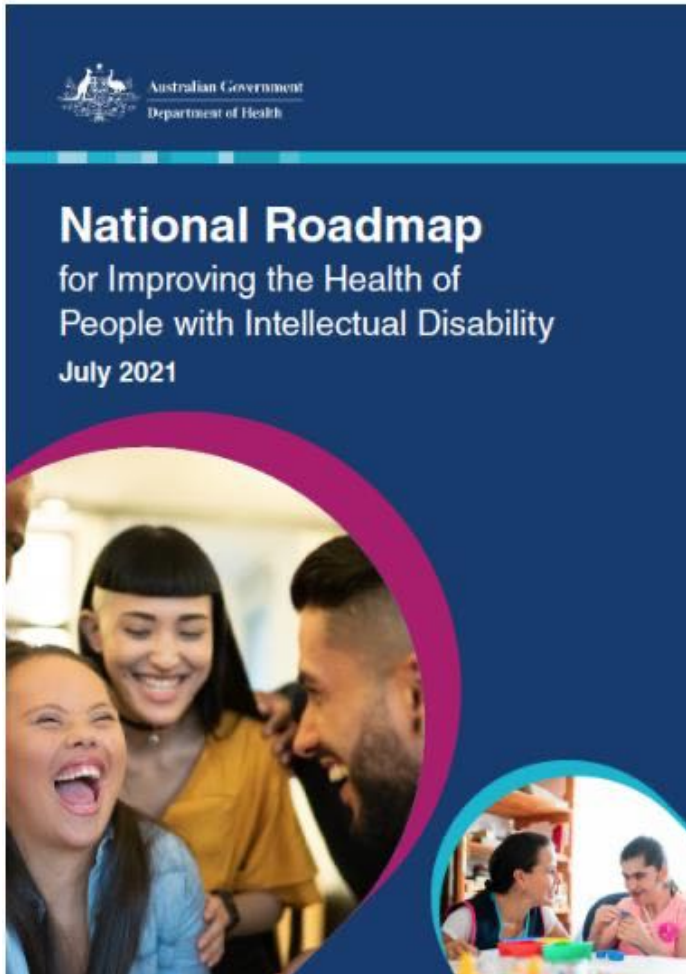


- Publications, resources and links are on our website www.GeneEQUAL.com

Health Care Crisis

People with intellectual disability have


- X2 avoidable deaths
- X2 emergency and hospital admissions
- ↑ physical and mental health conditions
- ↓ lower rates of preventative healthcare



Australian Government: Department of Health. (2021). National Roadmap for Improving the Health of People with Intellectual Disability. <https://www.health.gov.au/sites/default/files/documents/2021/08/national-roadmap-for-improving-the-health-of-people-with-intellectual-disability.pdf>

October 2024
PANDDA Conference

GeneEQUAL



www.GeneEQUAL.com

@GeneEQUAL

NSW Genetics of Learning
Disability (GOLD) Service



Hunter Genetics
Children, Young People and Families



GeneEQUAL: Nothing about us without us!



GeneEQUAL is an **inclusive research team** co-led by

- people with intellectual disability
- health care workers
- education, genetics, disability studies and ethics researchers



Genetic healthcare promises so much....



Australian Government

Department of Health and Aged Care

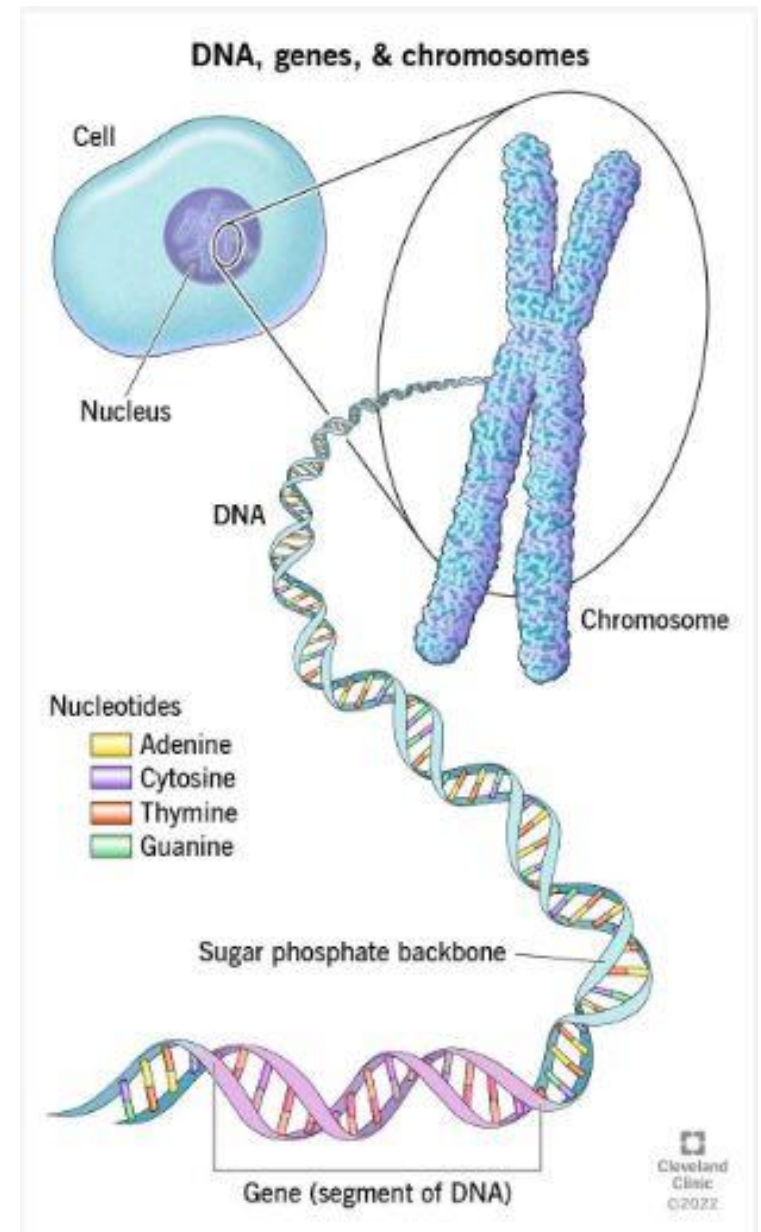
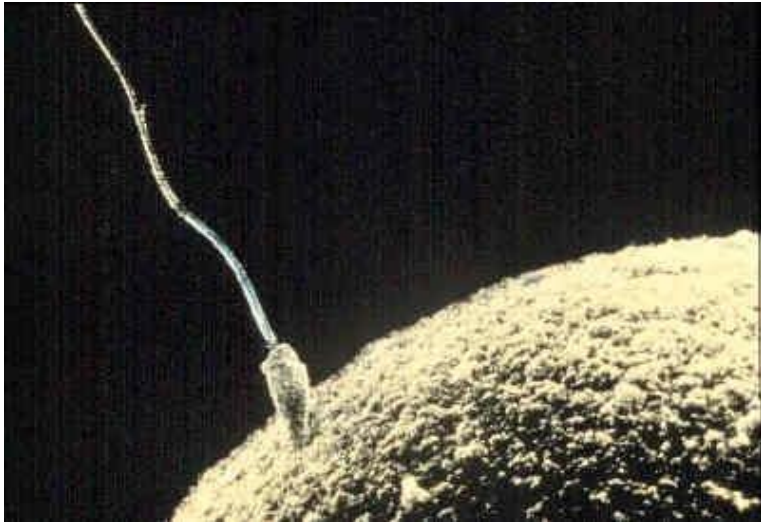
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Genomics Health Futures Mission

The Genomics Health Futures Mission is investing \$500.1 million in genomic research. It will improve testing and diagnosis for many diseases, help personalise treatment options to better target and improve health outcomes. It will also reduce unnecessary interventions and health costs.

Basic Genetics

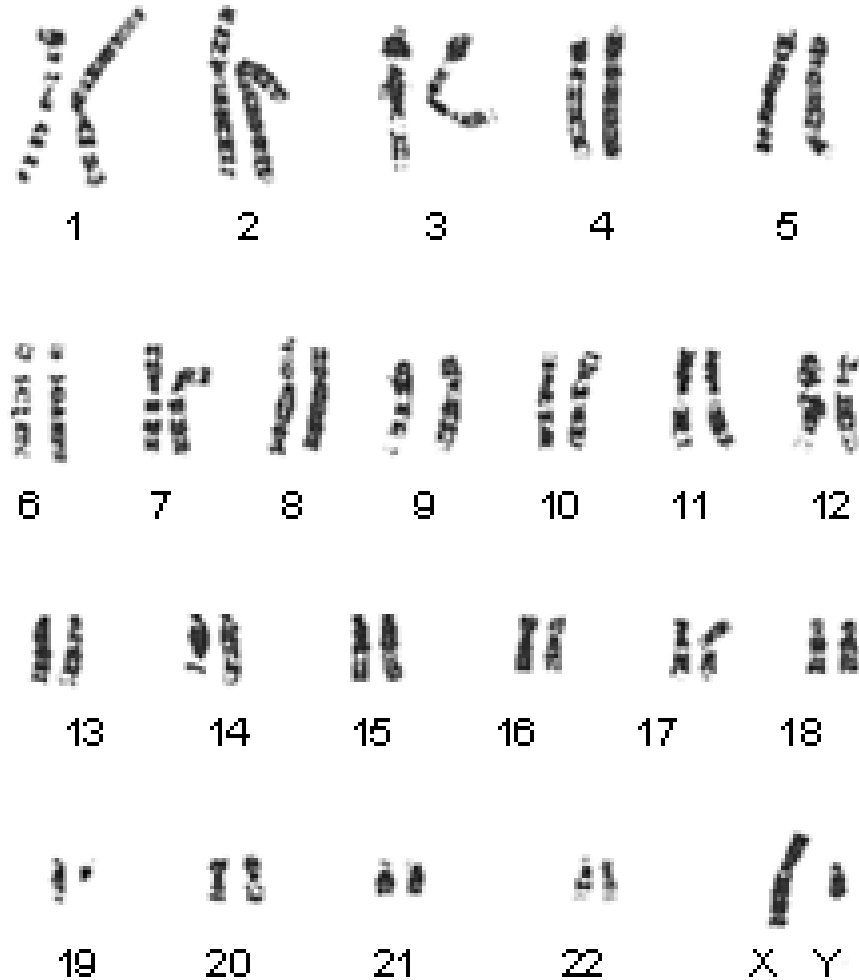


Genetic changes (pathogenic variants/mutations) can be inherited in the sperm/egg (germline) or develop during lifetime (somatic)

The evolution of genetic testing

Karyotype tests for:

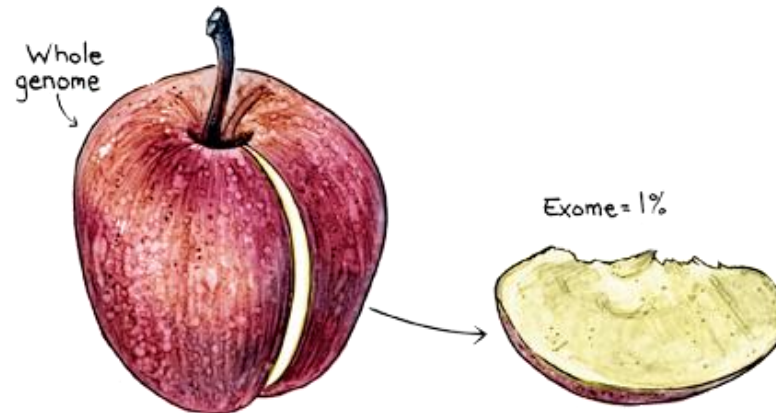
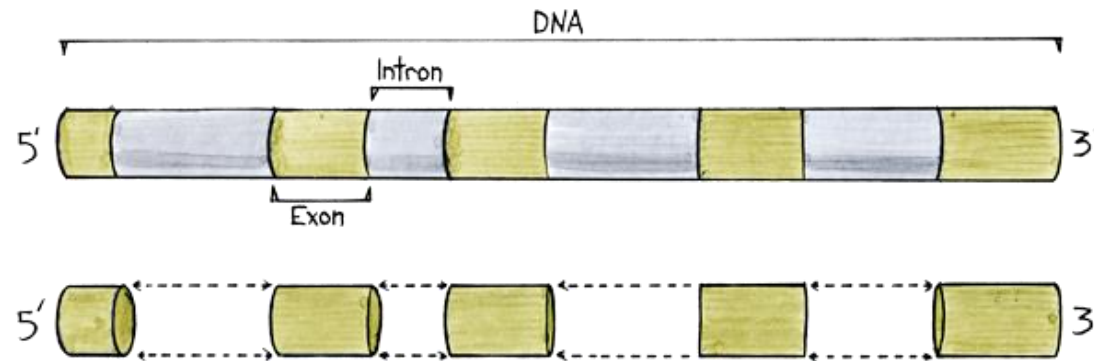
- Extra / missing chromosomes
- Extra / missing pieces of chromosomes



The evolution of genetic testing

- **Microarray** detects small deletions and duplications (copy number variants)
- **Single Gene testing** – may sequence an entire gene or look for common changes within the gene
- **Panels** – test a number of genes associated with a particular condition. Looking at most common changes within those genes

Whole Exome Sequencing



Copyright © 2012 University of Washington

1% of genome is coding – 99% non coding (used to be referred to as junk!)

Whole Genome Sequencing



We are now learning more about how genes are regulated

Connor A. Horton et al, Short tandem repeats bind transcription factors to tune eukaryotic gene expression, *Science* (2023).

[DOI: 10.1126/science.add1250](https://doi.org/10.1126/science.add1250)

What is the experience of people with intellectual disability with genetic healthcare?



Australian Government
Department of Health and Aged Care

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Genomics Health Futures Mission

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Our early research told us:



1. Many people with intellectual disability
 - Had bad experiences with genetic health care
2. There was a lack of Easy Read information
 - About genetic health care
3. Health professional education was needed

Key recommendations from Royal Commission

Good health care for people with disability



People with disability have the same right to health care as people without a disability.

They should have the autonomy to manage their own health care.



But people with disability often don't get the health care they need.

This means they can have worse health than other people in the community.

Intellectual disability is a disability that slows down learning. We can learn if the way of teaching matches how the person learns. Intellectual disability is not an inability to think! We know what is going on around us, and we can feel what's going on too.

ROBERT STRIKE, AM



Improving genetic healthcare for people with intellectual disability



Co-production research is the best way to do this.

Co-production means doing research together.

People with disability are **included** in the research process.

1



Starting research together

We decided to focus on meeting the **top three recommendations** from people with intellectual disability in Phase 1 of GeneEQUAL.

2



Planning research together

We agreed on a co-production and a research plan. We worked together to make sure our project would be accessible and treat everyone with respect.

3



Doing research together

We ran co-production and advisory workshops together. Some of our team worked more on a focus group with people with intellectual disability and others worked more on a health professional evaluation.

4



Understanding data together

We worked together to understand the main themes and findings of our co-production project.

5



Talking about our research together

We share our research together at conferences and by Easy Read newsletters, videos, podcasts and blogs.

6

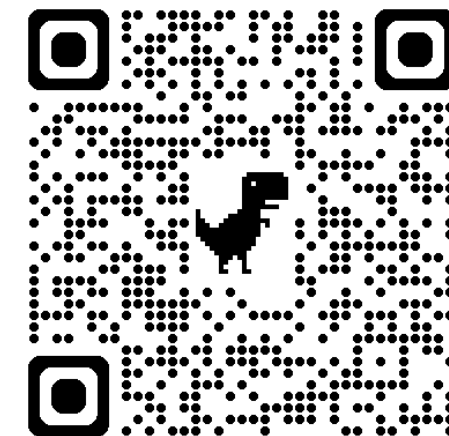


Sharing what we learnt together

We have reflected on the co-production process together and thought of new ideas and recommendations for how we will work together in the future.



Doing Research Inclusively. Co-production in Action.





Co-researchers



Co-researchers add their expertise on

- Easy Read ethics documents
- Recruitment plans
- How to run interviews and focus groups
- And much more



They

- Bring their lived experience
- Are accessibility experts
- Know what will work and what will not

Improving genetic health care for people with intellectual disability – listen to the experts!



Listen to people with intellectual disability about



- their experiences at genetic appointments
- what they liked
- what they did not like
- what they recommend should change

Many people with intellectual disability experienced



- Bullying
- Sexual abuse
- Physical abuse
- Financial abuse

Seeing a new health service team can be frightening



People made suggestions for how things could improve



- Explain things well
- Stop and listen
- Talk slowly
- Check understanding
- Use pictures
- Use Easy Read
- Give people choices
- Use language which makes people feel respected

Our first project with NSW Health



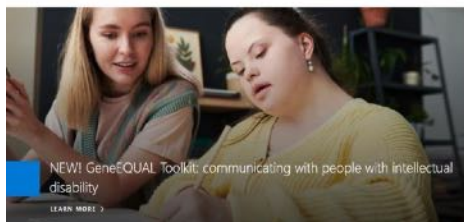
We talked with people with intellectual disability about

- what is good or bad

about genetic health care

Then together with people with intellectual disability

- we made an [Educational Toolkit](#)



GeneEQUAL Educational Toolkit



Videos for health professionals on how to provide

- Reasonable adjustments
- Person centered care
- Strengths based (trauma informed) care

<https://www.genetics.edu.au>

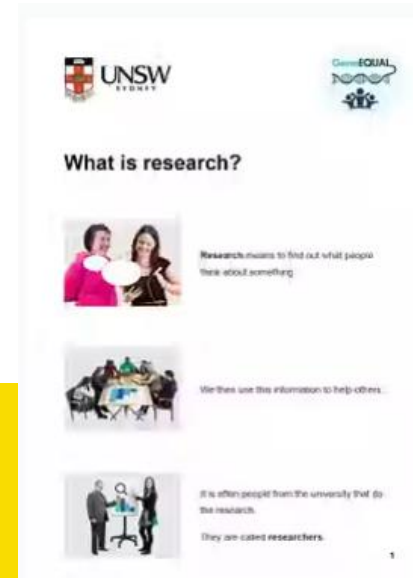
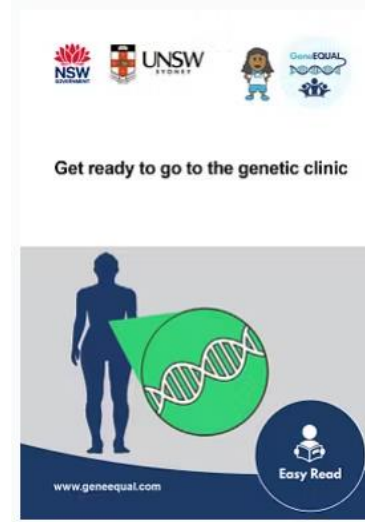
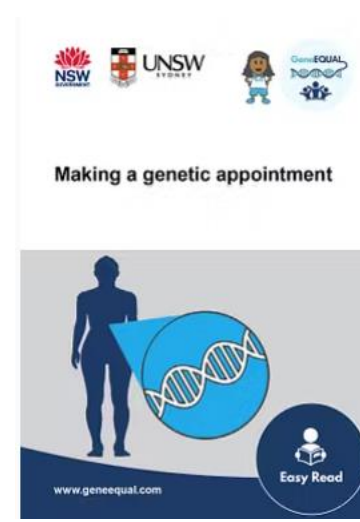
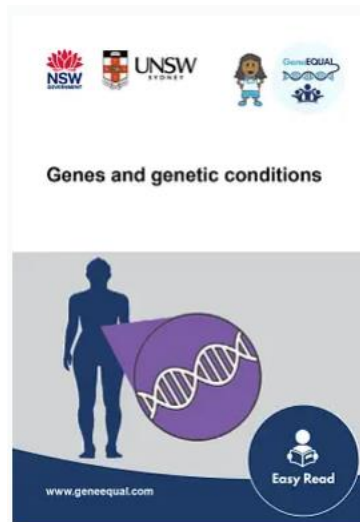
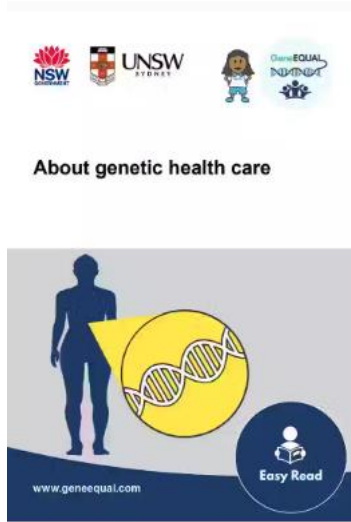




Easy Read booklets about genetics



Patient Booklets in Easy Read



Health Centre for Genetics Education



<https://www.genetics.edu.au>



Understanding data together



We have been listening to feedback from

- People with intellectual disability
 - through a focus group
- Health care professionals
 - through interviews and a survey



Survey: Providing Feedback on These Resources



- Manjekah and Chloe are students who lead this work



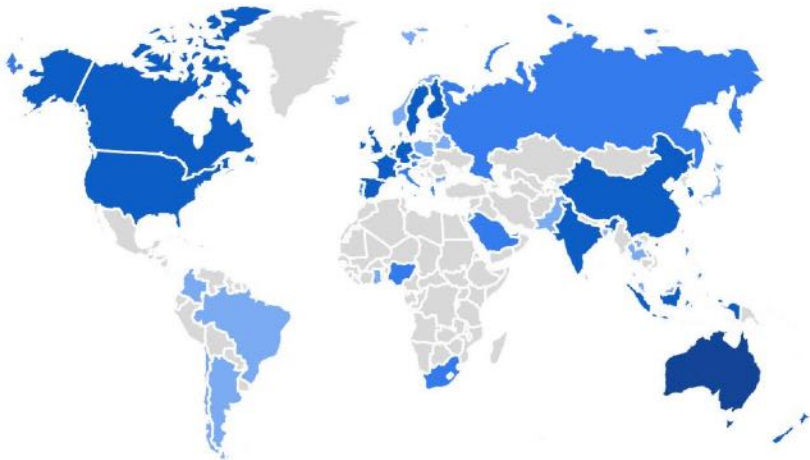
Our Educational Toolkit has had great feedback



You can find it at www.geneequal.com

Our toolkit has been visited

- over 10,000 times
- by people from 53 countries





OVER TO YOU

What did you like about this process?

How can we improve the way we work together?

What have you learned while working together?

What does co-production mean to us?

Doing research together

- People with a disability working alongside staff who work at universities

1

- Working out what jobs you want to do in Co-production

- Making sure research is about what is important for people with disability



GeneEQUAL's current big project



GeneEQUAL is now funded

- for 5 years
- for a project across Australia
- to include Aboriginal and Torres Strait Islander people
- by the National Health and Medical Research Centre



Australian Government
National Health and
Medical Research Council



NSW Genetics of Learning Disability Service



- Helping families find genetic reasons for intellectual disability
- Genetic appointments for families with 2 or more family members with intellectual disability
- Clinics across NSW
- Provide home visits if required

NSW GOLD Service

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