



Singapore Healthcare Management 2018

Establishing a Clinical Genomics Framework at SingHealth



Institute of Precision Medicine (PRISM)



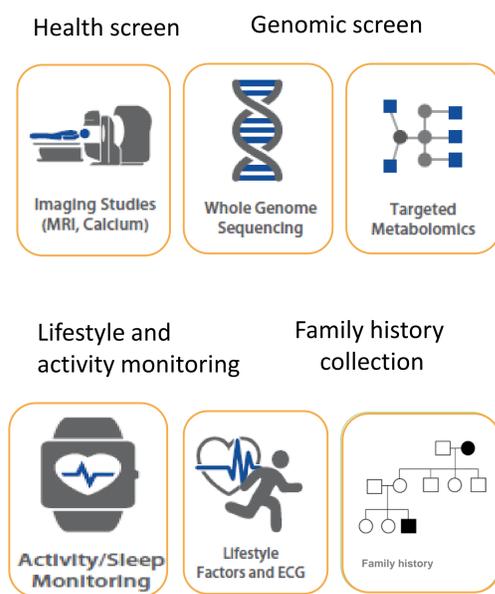
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BACKGROUND

Personalised healthcare is now the focus of future medicine. SingHealth Duke-NUS Institute of Precision Medicine (PRISM) aims to promote precision health by providing a comprehensive Clinical Genomics Service from screening to clinical management to improve the healthcare service for Singaporeans.

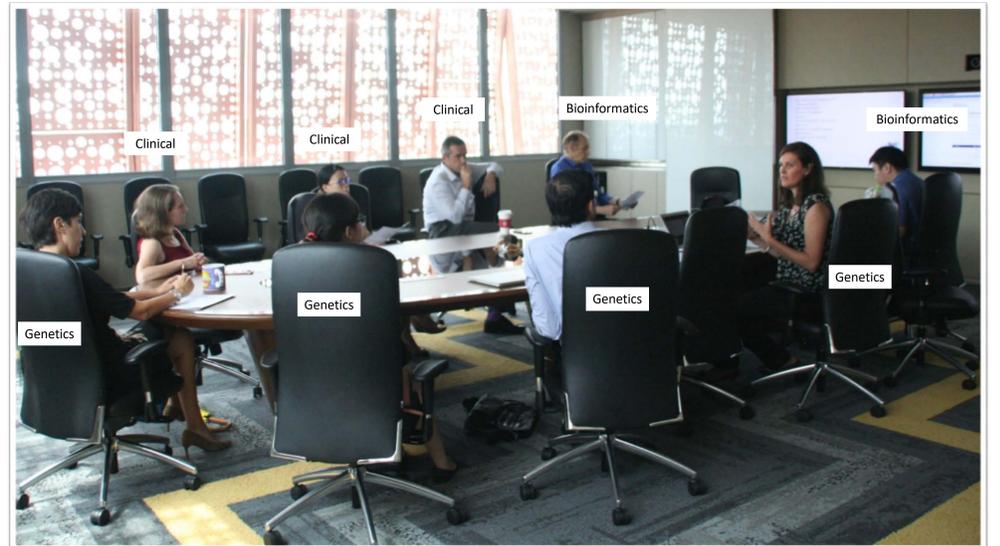
METHOD

Individuals with no known pre-existing or family history of health conditions are consented to take part in:



RESULTS INTERPRETATION

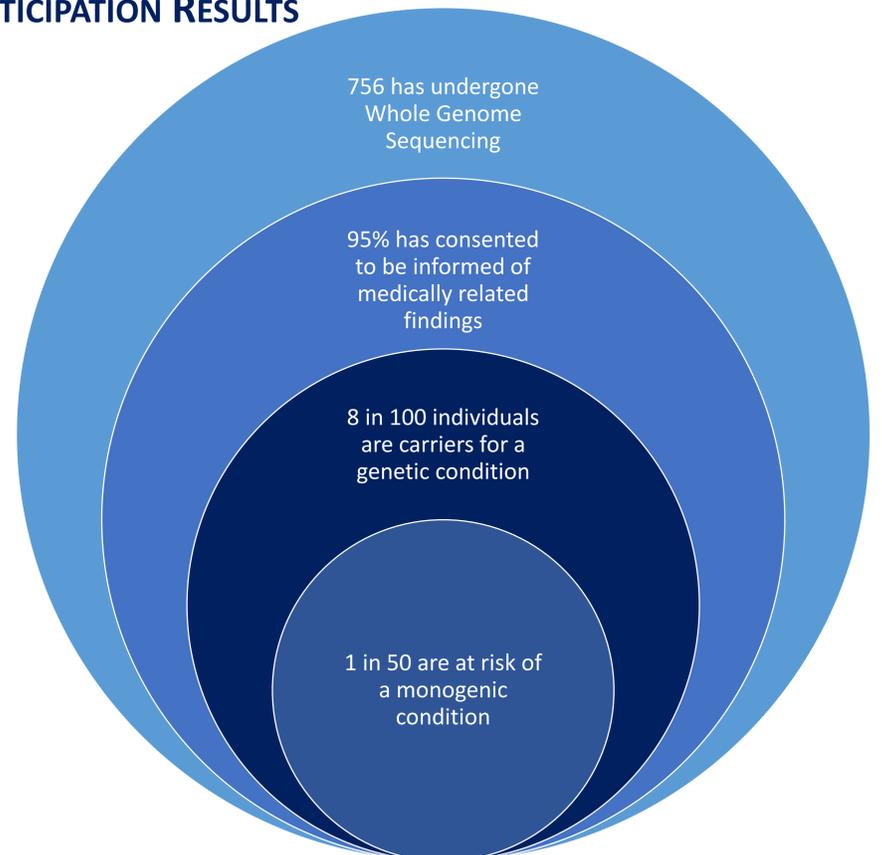
The participant data is reviewed in our multidisciplinary team (MDT) meeting comprising of clinical genetics and medical specialists, consultants, bioinformaticians and scientists.



PARTICIPANT ENGAGEMENT AND REFERRAL

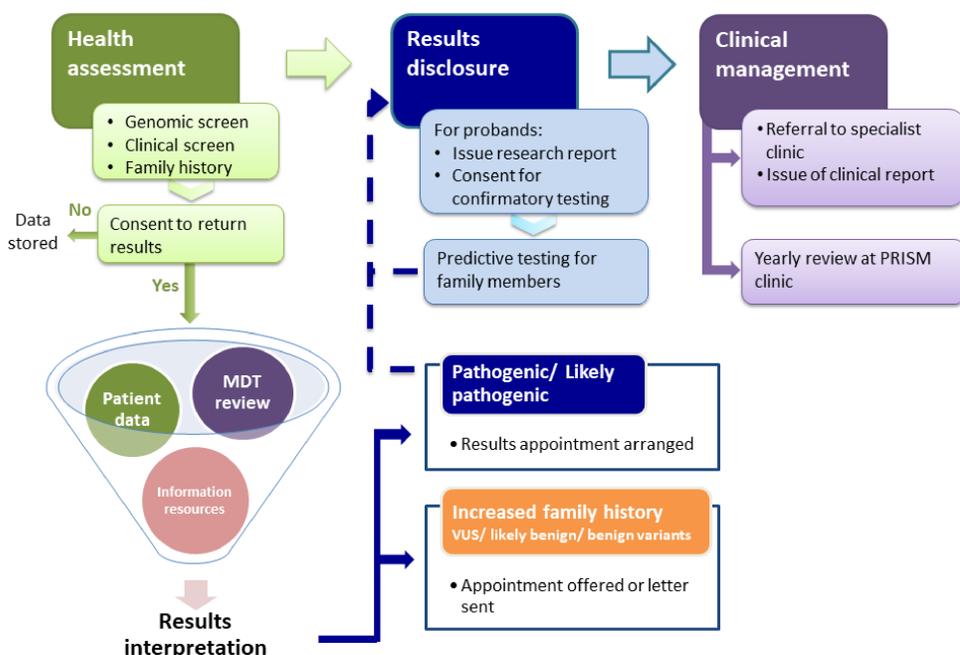
For those with clinically actionable results the participants are invited to meet with our genetic counsellors for results explanation and the opportunity to consent for clinical validation. Upon confirmatory testing, participants are referred to a specialist within SingHealth for ongoing health management and are also reviewed yearly with PRISM.

PARTICIPATION RESULTS



- Genetic counselling appointment has been offered to 38 participants and of these, 5 have declined.
- 27 participants attended PRISM to receive their genomic results and 13 have consented to clinical validation.

PRISM PARTICIPANT PATHWAY



CONCLUSION

We are able to determine the range of Asian normality through detailed phenotyping and genotyping of healthy Singaporeans and have established a systematic clinical framework to identify and return medically significant results. Through our Clinical Genomics Service, we are increasing the efficiency of healthcare management for participants and collecting data to direct health policies.