



Insights From SQCCCRC Journey

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Outline

- ❑ Background
- ❑ SQCCCRC Experience
- ❑ Genome Project
- ❑ Advantages and challenges
- ❑ Future Directions



About Oman...

- ❑ Southeastern coast of the Arabian Peninsula at the confluence of the Gulf of Oman and Arabian Gulf.
- ❑ The current population of Oman is 5,480,479 (62% Omanis)
- ❑ 2/3 of the population are youth
- ❑ Mainly public health system



How it started



- ❑ Royal Decree to establish SQCCCRC

- ❑ 3rd September 2021:
Outpatient Clinics

- ❑ 7th February 2023:
University Medical City



Sultan Qaboos Comprehensive Cancer Care and Research Center (SQCCCRC)

- ❑ **Commissioned in 2021 (Genomics Department Sep 2021)**
- ❑ **Solid cancers**
- ❑ **Based on 6 programs (GI, Breast, Women's Health, GU, H&N, Rare)**
- ❑ **Genetic Counselling part of the MDT team**



Oman Genome Project



Genomics Department

- ❑ VUS in 68% of the cases !!!
- ❑ Positive moderate and low risk genes in 9% of the cases



Pathogenic Variants

***APC* risk Allel c.3920C>T**

Fanconi genes

ERCC5

XRCC2

ATM

NBN

XPC

Difficulties

- **Gathering information about family history**
- **Pathology reports**
- **Tissue not available**
- **Missing and/or Hiding information**
- **Patients knowledge**
- **Molecular tests**
- **Counselling for VUCs**



Future Directions

- **One** National Team
- Data Sharing!
Local/Regional/International
- Learn from other experts.





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Thank you

