

Operational Barriers to Precision Genomic Testing in Hematologic Malignancies: A Qualitative Study

Summiya Nasim MD¹, Kamran Mushtaq¹ Mindy Flanagan PhD², Jamie Berndt RN, BSN², Shion Guha PhD², Emily Powell PhD²
¹Parkview Health, Fort Wayne, Indiana, USA. ²Parkview Health, Fort Wayne, IN, USA

Background

- Precision Health genomic testing has transformed oncology care by enabling targeted therapies and personalized treatment strategies.
- Despite expanding use across hematologic malignancies, challenges remain in workflow integration, result interpretation, and turnaround time.
- Understanding oncology providers' real-world experiences with genomic testing may identify barriers, improve implementation, and optimize precision oncology care

Objective

- To evaluate oncology providers' perspectives regarding clinical use, workflow integration, barriers, and perceived utility of Precision Health genomic testing using the COM-B framework.

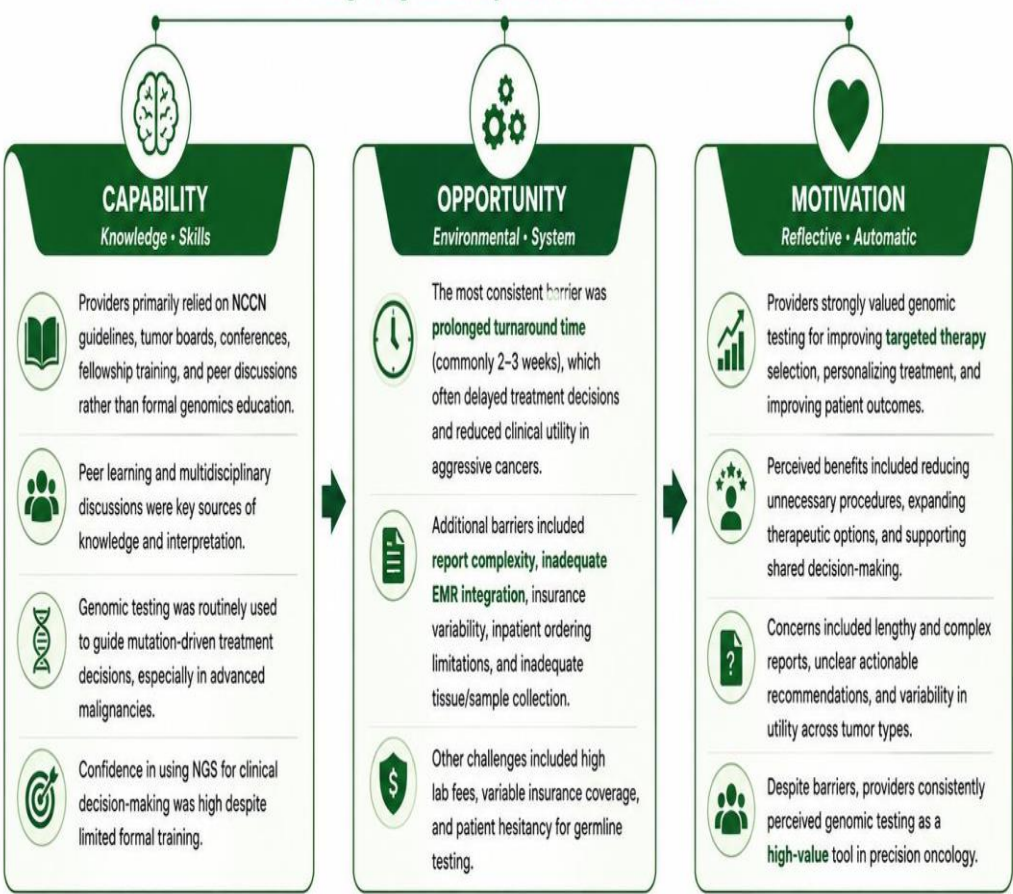
Methods

Design	Qualitative Observational Study
Setting	Packnett Family Cancer Institute
Participants	Providers across hematologic oncology specialties
Key Domains	Workflow barriers, clinical utility, provider perspectives
Analysis	COM-B framework with thematic analysis

Results

Qualitative thematic analysis identified recurring themes across the COM-B domains of **Capability, Opportunity, and Motivation**. Key findings are summarized below.

Findings Organized by the COM-B Framework



Representative Quotes

“I need results in days, not weeks.”
-Oncologist

“The reports can be very dry and lengthy and sometimes it’s hard to know what’s actionable.”
-Oncologist

“Genomics helps individualized treatment decisions and expands our options for patients.”
-Oncologist

Conclusion

- Oncology providers perceive genomic testing as highly valuable for precision oncology care.
- Major barriers include prolonged turnaround time, report complexity, and workflow integration challenges.
- Improving EMR integration, report clarity, and turnaround efficiency may enhance clinical implementation and patient