

## Pathway-informed breast cancer support and prevention.

### What Genetic Risk Reflects in Breast Cancer

Inherited risk for breast cancer spans multiple biological pathways, including:

- Hormonal regulation
- DNA repair and cell cycle control
- Inflammation and metabolic signaling

A total polygenic risk score estimates inherited susceptibility.

**Pathway-level interpretation helps explain biological contributors without focusing on single genes.**

### How PathWise Adds Clinical Value

PathWise supports clinicians by:

- Explaining genetic risk clearly without creating alarm
- Supporting shared decision-making around screening and prevention
- Framing lifestyle factors such as weight, physical activity, and alcohol use as risk modifiers, not guarantees

**It does not diagnose disease or replace established screening guidelines. It supports balanced, patient-centered risk conversations.**

# Breast Cancer Risk



### How This Shows Up in Practice

Patients with similar overall genetic risk may have different underlying pathway emphasis.

Pathway context can help clinicians explain:

- Why screening discussions may differ
- How lifestyle and metabolic health fit into overall risk context
- Why genetic information informs focus rather than certainty

### Example Patient Explanation

*“Your results help us understand which biological processes may influence risk, so we can focus prevention and screening thoughtfully.”*

**PathWise does not predict breast cancer. It helps clinicians contextualize inherited risk to support informed, measured prevention and screening decisions.**

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