PathWise
Pathway-based Polygenic Risk Scoring

Atrial Fibrillation Risk

Pathway-informed heart rhythm guidance and prevention.

What Genetic Risk Reflects in Atrial Fibrillation (AFib)

Inherited risk for atrial fibrillation involves multiple biological pathways, including:

- Cardiac electrical signaling and ion channel function
- Structural remodeling and atrial fibrosis
- Inflammation and metabolic stress

A total polygenic risk score reflects overall inherited susceptibility to atrial fibrillation.

Pathway-level context helps clarify whether inherited risk is more electrically driven, structurally influenced, or related to metabolic and inflammatory contributors.

How PathWise Adds Clinical Value

PathWise supports clinicians by:

- Framing discussions around rhythm awareness and appropriate clinical monitoring
- Supporting shared decision-making around cardiometabolic risk management and lifestyle modification
- Reinforcing guideline-aligned prevention with patient-specific biological context

It does not diagnose or replace cardiac evaluation. It clarifies where preventive attention and monitoring may matter most.

How This Shows Up in Practice

Patients with similar overall genetic risk may require different preventive focus areas.

For example:

- One patient's profile may emphasize electrical conduction pathways
- Another may reflect greater structural or fibrotic contribution
- Another may show stronger links to metabolic or inflammatory stress

PathWise helps explain these differences while remaining aligned with established cardiovascular care guidelines.

Example Patient Explanation

"Your overall inherited risk is similar to others, but your results suggest electrical signaling and heart tissue remodeling may play a larger role. This does not predict atrial fibrillation, but it helps us focus monitoring and prevention more precisely."

PathWise does not predict arrhythmia risk. It helps clinicians translate inherited risk into clearer, more focused preventive conversations.

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PathWise is intended to support clinical decision-making and shared conversations. Results should be interpreted in the context of individual patient factors and current clinical guidelines.

Questions? Contact us at info@vydiant.com