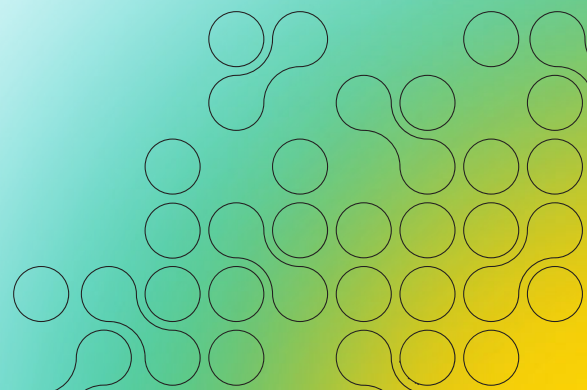


Volpara® Risk Pathways

Epic-based cancer risk assessment



Volpara® Risk Pathways® offers models, risk explanations, care recommendations, and content to help coordinate care for patients at elevated risk for several common cancers.



The only fully integrated cancer risk assessment platform in Epic's EHR.

The care your patients need. Simpler, better.

Risk assessment can be a complex process involving numerous stakeholders, systems, and software products. Volpara® Risk Pathways® software simplifies this process for you, using your Epic® electronic health record system to seamlessly integrate cancer risk assessment into your workflow.

With Risk Pathways, it's easier to make cancer risk assessment available to more patients—as the standard of care throughout a health system. Risk Pathways can identify high-risk patients in any setting, including radiology departments, high-risk clinics, primary care/OB-GYN practices, or cancer centers. More than just a score, Risk Pathways offers models, risk explanations, care recommendations, and content to help coordinate care for patients at elevated risk for cancers such as breast, ovarian, endometrial, colorectal, prostate, and pancreatic. Working with your Epic EHR, Risk Pathways offers a consistent tool to assess risk and direct care in any patient encounter. The entire care team benefits from a shared view of patient risk status and adherence.

Risk Pathways — supercharged

For an even more powerful risk assessment program with Risk Pathways, add the automated, objective breast density assessment of Volpara® Scorecard™ software. For details, see the “Volpara Scorecard” section.



Why offer a risk assessment program?

Assessing risk of developing breast cancer has never been more important—for women of all ages. As most women are unaware of their risk status,¹ it's a real opportunity for healthcare providers to fulfill a growing need.

Much of that need belongs to young women, those aged 25 and under. This group is seeing an increase in the rate at which they develop breast cancer,² and those who receive a cancer diagnosis are more likely than older women to have an advanced stage of breast cancer.³

The leading screening guidelines not only recommend clinical risk assessment as the basis for which women are screened and what imaging modalities are used,⁴ but also agree on the increased effectiveness of a risk-stratified approach, citing age 25 as a significant risk threshold for women.

The National Comprehensive Cancer Network® (NCCN®), for example, recommends that women “undergo breast cancer risk assessment by age 25 and [be] counseled regarding potential benefits, risk, and limitations of breast screening in the context of their risk stratification.”⁵ Similarly, the American College of Obstetricians and Gynecologists recommends age 25, stating, “Breast cancer risk assessment is very important for identifying women who may benefit from more intensive surveillance.”⁶ And the American Society of Breast Surgeons “recommends that women age 25 and older undergo formal risk assessment for breast cancer including evaluation of indications for genetic testing and personal history of radiation.”⁷

Reaching women from a young age, rather than relying on traditional age-based screening, shows the potential for risk assessment programs to provide the personalized breast cancer screening that, especially for high-risk patients, can help prevent late-stage cancer and attain the best health outcomes.

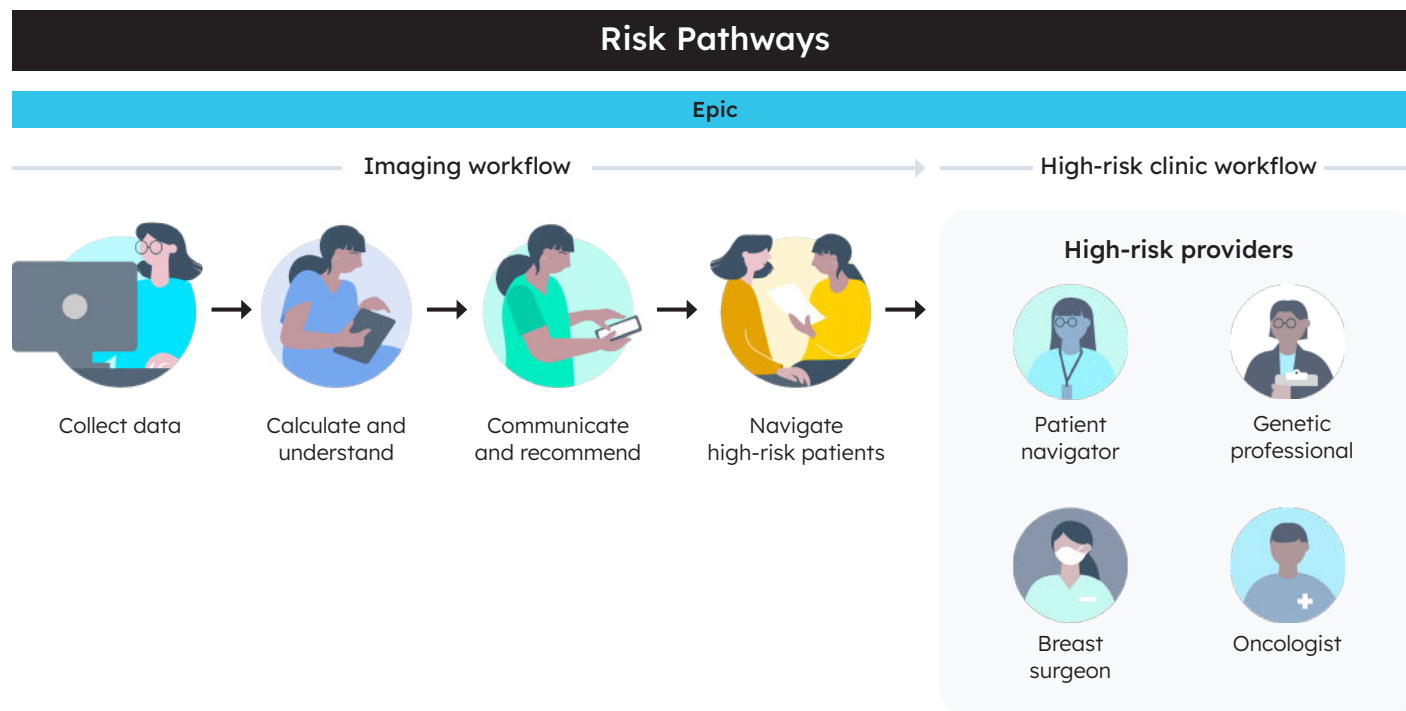
That's where Volpara Risk Pathways can help.

Volpara Risk Pathways

Fully integrated risk assessment

With Risk Pathways, your facility can assess the cancer risk of every patient. By identifying the patients at high risk of developing cancer, you can engage them in shared decision-making around the care path most appropriate for them, whether that means genetic testing, risk-reducing medications, lifestyle changes, or additional imaging such as ultrasound or breast MRI. The result is patients who are informed, empowered, and more likely to see improved health outcomes.

Risk Pathways meets the needs of your workflow, covering all the steps of the risk-assessment process. It's fully embedded in your Epic ecosystem, so your clinical staff can identify high-risk patients during their normal workflow processes.



By providing a single tool across specialties, Risk Pathways eliminates the need to move between different applications. You can be assured of streamlined data collection and consistent risk scores and associated recommendations.

You can also expect regular updates to the available risk models to ensure that you have access to the latest recommendations and improvements. These updates require no work for your staff or application downtime.

Deep Epic integration

The Risk Pathways experience in Epic reduces duplicate data entry, makes assessment possible in each patient encounter, and keeps collaborative decision-making in the EHR. Every care team member has the same view of the patient's risk and recommendations for appropriate interventions ranging from additional imaging, genetic testing, and risk-reducing medications to lifestyle changes. Many of our clinical users are unaware that Volpara powers their Epic risk workflows. It's that seamless.

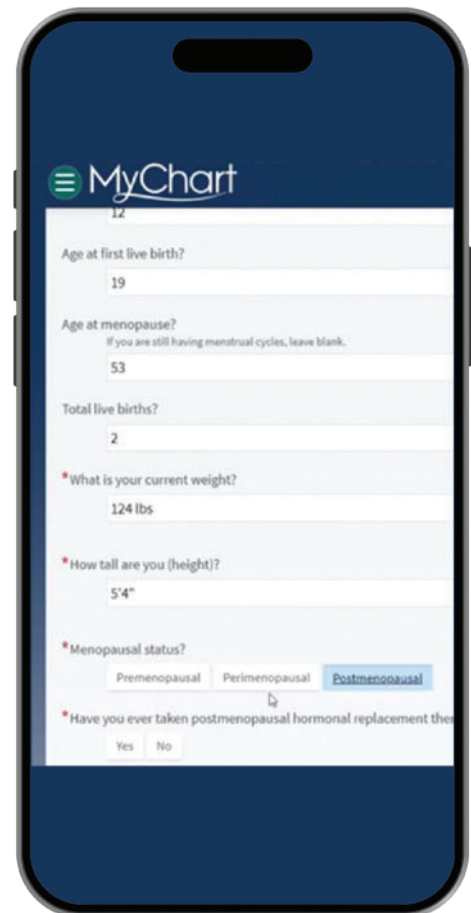
Epic-based patient data collection

You can build a risk questionnaire in Epic MyChart that allows patients to provide their information prior to their appointments. Or they can access the questionnaire through your office's Epic Welcome check-in kiosk.

In addition to relevant risk factors, your risk questionnaire can include demographic data and medical or surgical history, all of which are transmitted to the Volpara risk engine.

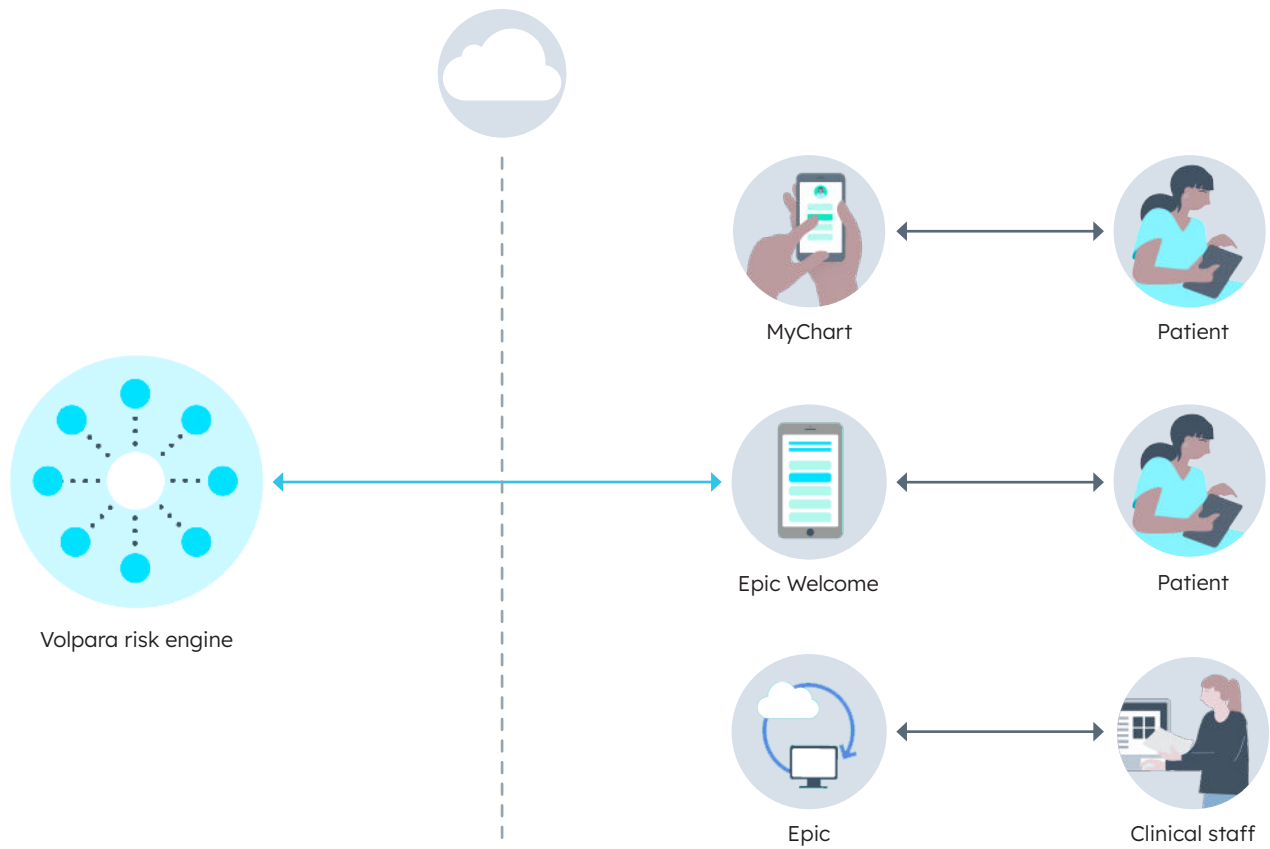
Your clinical staff reviews and approves this patient data before importing it into your Epic EHR as part of the patient's permanent record. They can also enter patient data directly into the EHR.

Patient data can be queried and used with Epic registries, reports, and letters, and for downstream follow-up.



The image shows a smartphone displaying the MyChart patient questionnaire interface. The form includes the following fields and options:

- Age at first live birth? 12
- Age at first live birth? 19
- Age at menopause? If you are still having menstrual cycles, leave blank. 53
- Total live births? 2
- *What is your current weight? 124 lbs
- *How tall are you (height)? 5'4"
- *Menopausal status? Premenopausal Perimenopausal Postmenopausal
- *Have you ever taken postmenopausal hormonal replacement therapy? Yes No



Patient

Access the risk questionnaire from home via Epic MyChart or in the office via the Epic Welcome check-in kiosk.



Technologist

- Interview patients during visits and enter risk information directly into your Epic EHR.
- Access risk assessment functionality within any encounter or rooming navigator, eliminating double data entry and minimizing time impact.

Comprehensive risk calculation and decision support

One risk model may not be enough to keep patients from slipping through the cracks, and specialties may have different goals beyond genetic testing. That’s why Risk Pathways features the major risk models and guidelines for several common cancers.

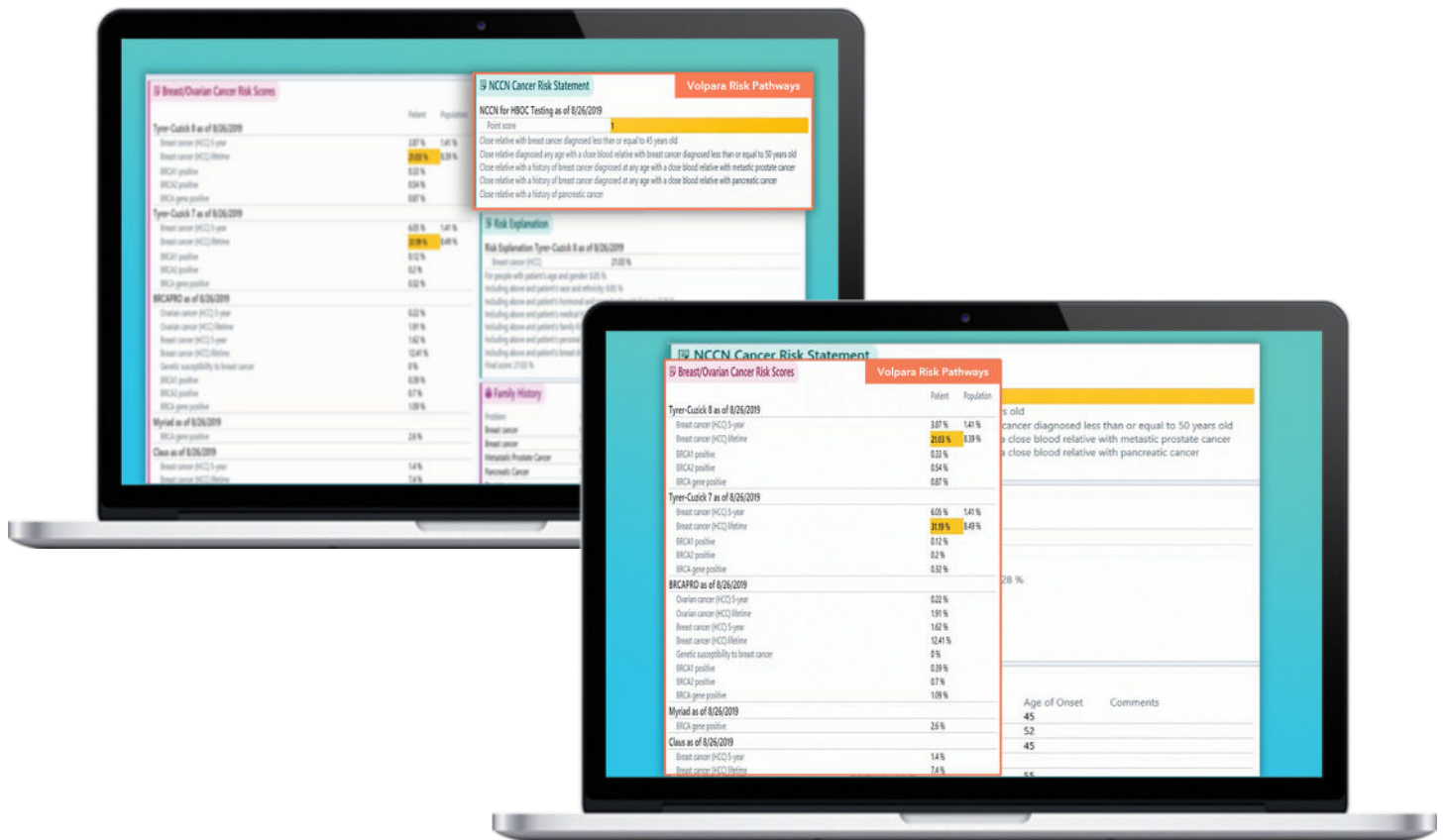
A broad set of risk models enables you to assess the risk of multiple cancers during any patient interaction for a faster risk-stratified approach to early detection. It also best positions your program for growth and evolution.

Comprehensive risk model set	
Breast cancer	Tyrer-Cuzick
	Gail
	BRCAPRO™
	Claus
Breast density	Imputed density
	BI-RADS® ATLAS
	A discrete field in Epic for Volpara volumetric breast density is expected in 2024
NCCN Guidelines®	
Other cancers	BRCAPRO – ovarian
	CCRAT – colorectal
	MMRpro – endometrial
	PancPRO – pancreatic
Transparent risk explainer/factor + recommendation view	
Biweekly software releases for model/recommendation updates	
Ability to customize risk models used and cancers assessed by site	



In addition, the American Cancer Society® guidelines and NCCN Guidelines for Genetic/Familial High-Risk Assessment: Breast, Ovarian, and Pancreatic (NCCN Guidelines®) transform risk models into recommendations for next steps, supporting clinical decisions, reducing clinicians' mental load, and creating standards across your organization. They also enable you to support your facility's accreditation with the National Accreditation Program for Breast Centers (NAPBC), showing how and why a patient goes on a particular care path.

Once risk scores are calculated: Volpara's exclusive **Risk Explanation** feature, accessed through the Recommendation view in Epic, provides a breakdown of risk factors and scoring. This enables patients, clinical specialists, and primary care providers to easily understand the underlying factors contributing to high or low numbers, see why risk has changed over time, and reduce discrepancies or disagreements.



Radiologist

- Enjoy streamlined reporting and triage through easily accessible risk scores.
- View the impact of risk factors and communicate guideline-driven care recommendations for breast cancer and hereditary cancer risk.



High-Risk Nurse Navigator

- View the impact of individual risk factors following calculation for greater understanding, transparency, and troubleshooting.
- Identify patients eligible for adjunctive imaging or genetic testing.

Epic-based patient and referrer communication

Informing patients and referring physicians of risk results is an important part of building awareness and providing timely, effective care. For example, if the risk assessment conducted during a mammography appointment shows high-risk status, contacting the patient's primary care physician can lead to prompt follow-up care.

Within Epic, you can create correspondence for both populations. Patient letters can take the form of printed letters or PDFs available through MyChart.

Auto-population is available for patient letters and reports and summaries.



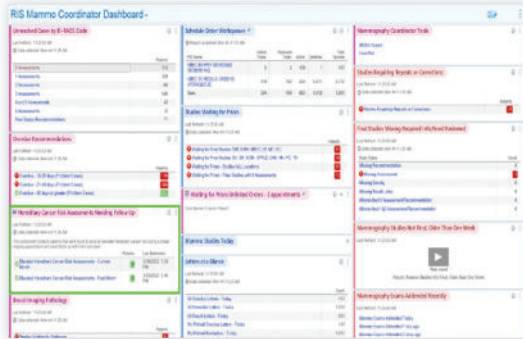
Epic-based patient and program tracking

With the Risk Pathways–Epic integration, you can access all the dashboards and reports found in Epic, a sampling of which is shown here. You can also configure risk results to appear in various patient review sections, including Storyboard, the radiologist’s reading palette, Chart Review, and Snapshot.



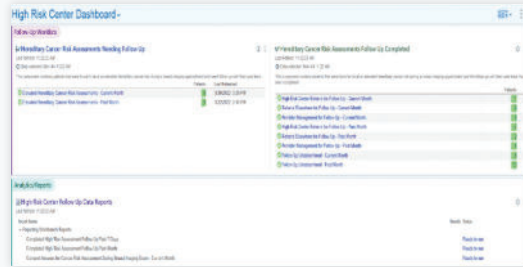
Mammography Coordinator

Track high-risk patients and their outcomes.



High-Risk Clinical Administrators

Monitor high-risk patients and track follow-up.



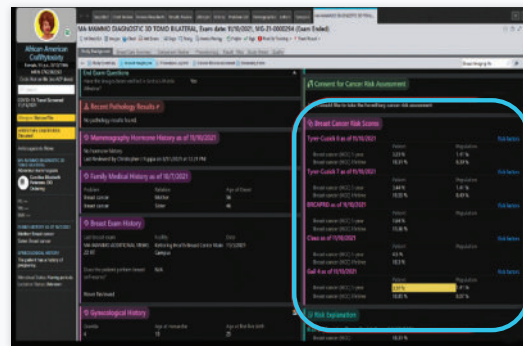
Clinical Administrator

- Monitor patient adherence to recommendations.
- Get an overview of the health of your organization’s risk program.



Radiologist

View results summaries through the reading palette.



Lab Connect for effective genetic interfaces

Making sure patients understand their risks and options is a big part of the work you do. So is gaining the trust of referring providers and clinical staff. Lab Connect streamlines your documentation processes with genetic lab test request forms (TRFs) and Myriad Patient Education Service (PES) forms that are pre-populated with patient data. These give both patients and their genetic counselors the clear, accurate information they need when discussing a given care path.

Epic uses FDI records to integrate with third-party software. Your Epic team can work within the EHR to create the necessary FDI records. There's no need for different systems to cover your tasks.

The image shows a detailed patient education form from Natera. Key sections include:

- PATIENT INFORMATION:** Fields for Patient Last Name, First Name, Date of Birth, Address, and City/State/Zip.
- ORDERING CLINICIAN REPORT RECIPIENTS:** A table with columns for Name, Title, and Fax, with checkboxes for each.
- PATIENT ETHNICITY:** A grid of checkboxes for various ethnicities such as African American, Hispanic/Latino, etc.
- FAMILY HISTORY OF CANCER:** A table with columns for Relationship, Status of Patient, Cancer Site, and Age at Dx.
- PATIENT'S PERSONAL HISTORY:** A table with columns for Cancer/Event, Personal History, and Age at Dx.



High-Risk Nurse Navigator

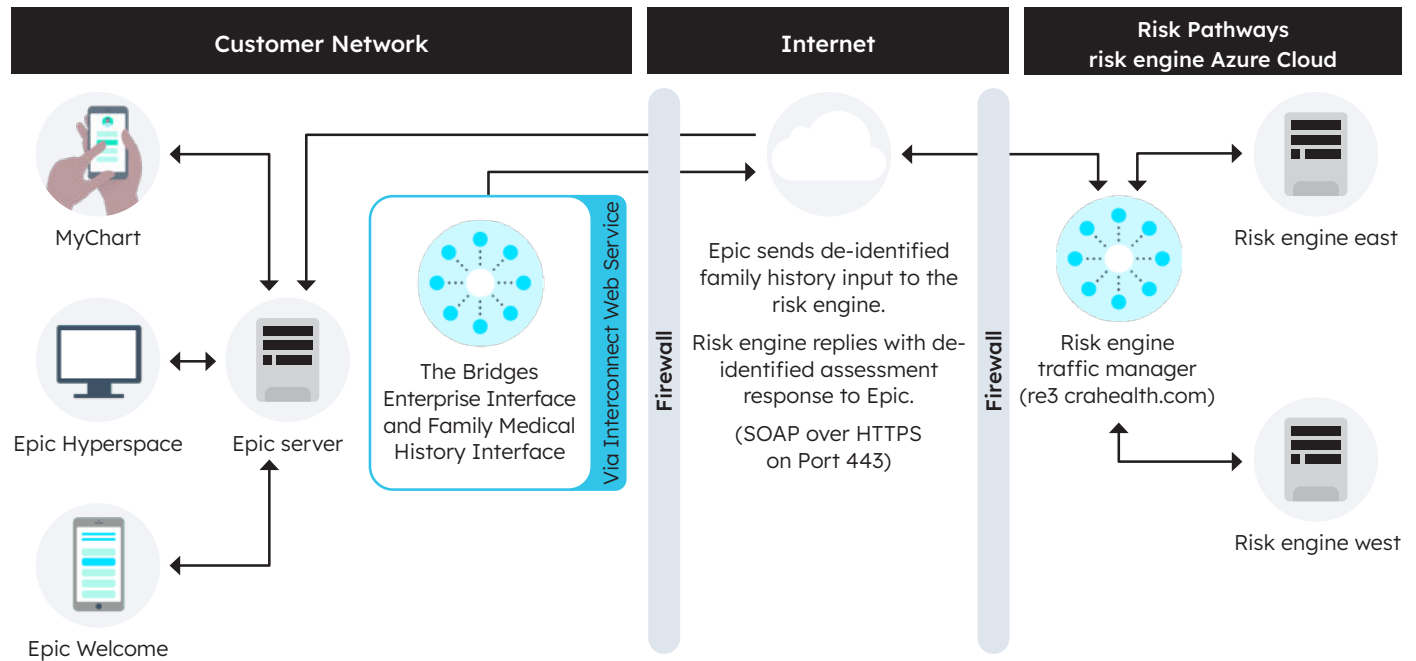
- Order, track, and understand genetic tests with your lab of choice: Myriad, Invitae, or Natera.
- Order without any double entry of data, saving time and reducing errors.
- Facilitate and document patient conversations and follow-up.

The Risk Pathways – Epic architecture

Volpara has been collaborating with Epic for a decade. As an original member of the HL7® group that established the risk assessment interface as an HL7 standard, Volpara worked extensively with Epic to form the Bidirectional Family History Interface in 2013.

The Risk Pathways integration with Epic is built on a comprehensive, bidirectional workflow that allows mutual updates to both platforms. The turnaround time for risk assessment is fast, only three to six seconds.

A high-level overview of the architecture is outlined below.



- Epic connects to the risk engine API encrypted endpoint with the Interconnect Web Service.
- The risk engine calculates the risk and returns the results to Epic as part of the same API transaction (discrete data exchange).
- Risk data is stored in a discrete field so it can be used in Epic dashboards, reports, and clinical notes.
- Your clinical staff can access Lab Connect via an FDI button in the Epic EHR software.
- A browser window displays patient history and risk assessment and can be configured to create TRFs for several genetic labs or share data with Myriad educators.

Required Build Resources:

- Radiant mammography module
- Interconnect Entity

3-8 weeks

The Risk Pathways – Epic integration process

Building the integration requires the expertise of resources already on your team. Depending on the functionality your facility requires, you may find that only some of the roles outlined here are required for your integration. We suggest that your team plan for three to eight weeks of work.



Project Sponsor/Champion

Advocates for the integration project and adoption of the proposed clinical workflow.



Epic Technical Specialist

Leads the build for areas of the application that can include risk assessment tools such as MyChart, Storyboard, the radiologist's reading palette under the Cancer Risk Assessment section, Chart Review, and Snapshot.



Epic Systems Radiant Analyst

Assists with the Epic user interface build (which requires Epic Radiant) to integrate Risk Pathways into the mammography/imaging workflow.



EpicCare Ambulatory Analyst

Assists with the Epic user interface build (which requires Epic Radiant) to integrate Risk Pathways into the Ambulatory (outpatient) care module.



Bridges Analyst

Sets up and tests the Epic interface profile variables.



Interconnect Analyst

Completes the EOA record setup needed to establish the connection to Risk Pathways.



Customer Project Manager

Manages resources and the completion of integration tasks.



MyChart Analyst

Incorporates risk-specific questions into the MyChart intake questionnaire.



Training Wheels Analyst

Establishes training content with the Volpara project team and conducts training sessions.



Radiologist

- Right from your workstation, access patient breast density and risk insights essential for improved clinical decision-making and early detection without having to recalculate the TC8 score.
- Provide evidence of high breast density to referring physicians and insurers.
- Triage women at high risk to the screening or diagnostic testing essential for better outcomes.

References: 1 <https://ascopubs.org/doi/full/10.1200/CCI.18.00072>. / 2 Koh, Benjamin; Tan, Jun Hao; Ng, Cheng Han; et al. Patterns in Cancer Incidence Among People Younger Than 50 Years in the US, 2010 to 2019. JAMA Netw Open. 2023;6(8):e2328171. doi:10.1001/jamanetworkopen.2023.28171. / 3 Partridge AH, Goldhirsch A, Gelber S, Gelber RD. Chapter 85: Breast Cancer in Younger Women, in Harris JR, Lippman ME, Morrow M, Osborne CK. Diseases of the Breast, 5th edition, Lippincott Williams & Wilkins, 2014. / 4 Siu AL; US Preventive Services Task Force. Screening for Breast Cancer: U.S. Preventive Services Task Force recommendation statement. Ann Intern Med. 2016;164(4):279-296. / 5 https://www.eradimaging.com/cffm/custom/2021/July2021/July_T8.jpg. / 6 https://www.eradimaging.com/cffm/custom/2021/July2021/July_T8.jpg. / 7 https://www.eradimaging.com/cffm/custom/2021/July2021/July_T8.jpg.
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