

volpara[®] enterprise[™]

Breast Imaging Analytics



volpara[®]solutions[™]

Our goal is to facilitate the early detection of breast cancer to reduce both its mortality and cost, allowing patients and their families to thrive.

Powerful Insights

into every patient's breast health.

Your breast screening and care teams are tasked with delivering high-quality, personalized care in a fast-paced, strictly regulated environment. Monitoring quality and performance throughout the screening process, for each team member and every patient, can be a daunting task.

VolparaEnterprise is the only software available that provides comprehensive, objective, and automated assessment of image quality on every mammogram. It supplies actionable intelligence to help the mammography team monitor and improve quality and workflow.

Understand your patients better

Make VolparaEnterprise and Volpara Clinical Applications* the core of your facility's personalized breast cancer screening program:

- Use **VolparaDensity** to triage the women who will benefit most to supplemental screening (masking risk) and risk counseling (cancer risk).
- Use **VolparaDose** to monitor each woman's personal x-ray dose, based on her breast density.

Understand your operational performance better

VolparaEnterprise software is a cost-effective, mission-critical window into your operation:

- Use **VolparaEnterprise dashboards** to get a dynamic, interactive view of your operation throughout the day.
- Use **ConstantQuality metrics** to monitor actionable key performance indicators (KPIs) for your business.

Understand your technologists' performance better

VolparaEnterprise software provides actionable intelligence for every Technologist, every day. Technologists:

- Use **VolparaPressure** software to increase awareness of the compression applied during each exam and optimize clinical performance. Pressure also influences patient comfort, which impacts how likely the patient is to return.
- Use **VolparaPositioning** software and the vPGMI Standard Image Evaluation System¹ to further develop their positioning skill and help make sure that every mammogram is of diagnostic quality.

* The Volpara Clinical Applications include Volpara®Density™, Volpara®Dose™, Volpara®Pressure™, and Volpara®Positioning™.

Adaptable Analytics

to optimize your workflow.

VolparaEnterprise software's analytics scale to accommodate your business, your team, and your clinical goals.

Large or small organizations

VolparaEnterprise software's cloud architecture supports imaging departments of any size with a unified database and common dashboards:

- Small operations can compare their quality to nationwide benchmarks.
- Large operations can integrate all their facilities under a common quality improvement program.
- Growing operations can continually expand their use of VolparaEnterprise software to newly acquired facilities.

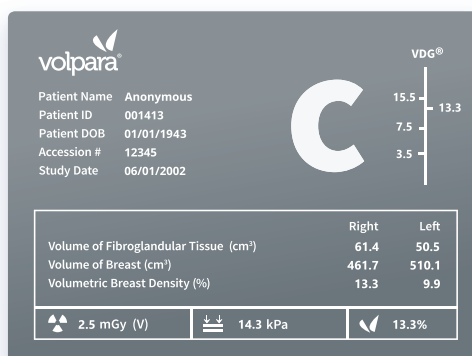
No matter how big your enterprise gets, whether in one building or spread across a region, VolparaEnterprise software will grow with you and deliver a common quality improvement program.

Personalized screening

Tailored screening starts with a Volpara Scorecard for each woman, delivered right to the Radiologists' workstations:

- Triage a woman to supplemental screening based on her breast density.
- Apply local standards to offer supplemental screening with ultrasound or breast tomosynthesis.
- Identify women who may benefit from complete risk counseling, and who may expand your high-risk breast MRI screening program.

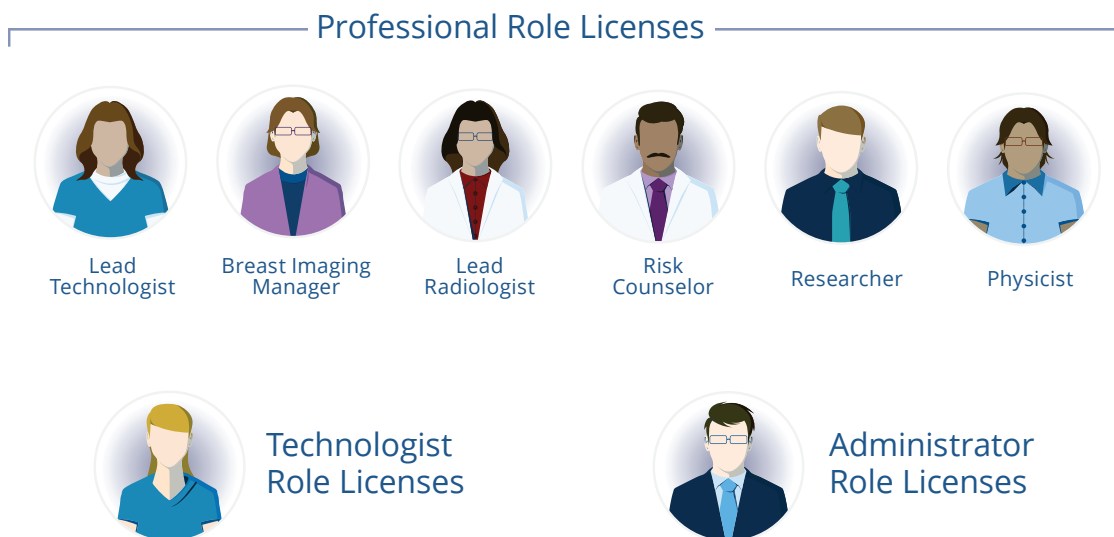
In addition, results can be sent to reporting systems for automatic inclusion in mammography reports.



A tailored dashboard for every job

VolparaEnterprise software gets the right data to the right employee.

- Each employee can be assigned one or more roles that allow access to different kinds of dashboards and analytic data.
- Technologists can review their own work, including image-by-image analysis of patient positioning and compression.
- Professionals can see broad analytic data and may see the work of selected Technologists.
- Administrators can manage users, roles, and rights, and make setting and configuration changes.



Continuous quality improvement

Technologists benefit from continuous, actionable feedback:

- Understand how positioning patients and controlling compression pressure affects quality.
- Easily compare their performance to colleagues and benchmarks.

VolparaEnterprise software helps Technologists learn how to improve their skills by:

- Rapidly identifying areas for improvement.
- Quickly reviewing examples of their own work that demonstrate specific issues with dose, density, pressure, and positioning.
- Reviewing embedded training videos by noted positioning expert Louise Miller, R.T.(R)(M)(ARRT), CRT(M), FSBI, FNCBC.

The result is continuous improvement that directly benefits Radiologists' clinical performance,² makes mammograms more comfortable,³ and encourages women to return for future mammograms.³



Growing Revenue

with innovative, automated solutions.

VolparaEnterprise software provides two new ways for your practice to expand its revenue opportunities.

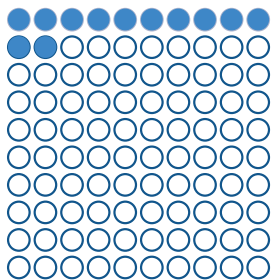


Direct women to supplemental screening

VolparaDensity software accurately segments your population so you can offer supplemental screening to the women who will benefit most.

- Identify women with dense breasts, increasing your tomosynthesis screening volumes.
- Identify women with extremely dense breasts, increasing your ABUS and hand-held ultrasound screening volumes.
- Customize your supplemental screening program based on the fine-grain differentiation of Volpara % Density to control the number of women being offered supplemental screening appointments.
- Better advise referring physicians about supplemental screening that may benefit their patients and comply with local regulations or state "density inform" laws.

VolparaRisk software identifies more high-risk patients



The VolparaRisk option helps drive additional revenue by triaging patients to risk counseling and high-risk screening such as breast MRI.

- To more accurately stratify women, VolparaRisk software leverages the volumetric VolparaDensity results, as well as age and breast size, to identify patients who may be at high risk but may not have family history of breast cancer.
- VolparaRisk-identified patients sent to risk counseling may prove to be high risk when their continuous VolparaDensity value, rather than the four-level BI-RADS score, is entered into the Tyrer-Cuzick v8 risk model.

VolparaRisk software identifies a subset of patients who may not be discovered through family history questions alone.

- VolparaRisk software helps identify up to 25% more high-risk patients than with family history triage alone.

ConstantQuality™ Metrics

Save time and money.

VolparaEnterprise software updates a myriad of ConstantQuality metrics with every image, feeding dynamic dashboards to drive organizational and staff understanding and efficiency.



Do everything ...better

Drive improvement across your organization:

- Encourage Technologist performance improvement through integrated self-training.

A facility in Australia increased the percentage of images in the target compression range by 20%.

- Objectively view Technologist work habits to ease employee discussion and target further training.
- Spend less time finding images for accreditation and EQUIP reviews.

A facility in Canada succeeded in reducing the time to locate images for accreditation by 60%.

- Target your marketing by understanding referral patterns and the characteristics of referred patients.
- Implement an easy, objective, and proven way to triage women to supplemental screening.

Ensure retention of your client base

Reduce the number of patient recalls and improve patient satisfaction. VolparaEnterprise software:

- Monitors compression pressure to balance clinical performance,² image quality, patient comfort,⁴ and x-ray dose.
- Helps Technologists improve their compression performance over time through analysis of compression pressure by breast size.
- Delivers high-quality examinations, free of patient motion due to improper compression that might cause them to be recalled.

Reach peak operational efficiency

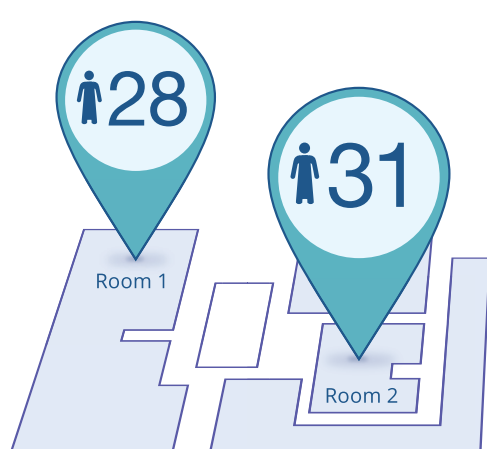
Streamline your daily operations:

- Track image acquisition duration for studies so you can evaluate whether each exam room is being effectively used.

A facility in Florida discovered it could cut appointment times in half without affecting the quality of care or patient satisfaction, while building new capacity for screening.

- Analyze the distribution of patient load to allow leveling of room utilization.
- Adjust staff hours based on actual patient imaging studies performed rather than studies scheduled.

VolparaEnterprise software's natural focus on the quality of patient positioning and compression pressure reduces the additional workload and scheduling challenges of technical recalls.



Women's Clinic West



Women's Clinic East



Comparing the number of studies per day in different rooms shows unbalanced utilization between locations and much greater demand in one room at Women's Clinic East.

Understand demand and capacity

Plan future capital acquisitions based on procedure volume and room capacity.

- Chart true demand for rooms and equipment, based on procedures actually performed rather than procedures scheduled.
- Compare true demand to capacity to identify the need for additional modalities and adjust the equipment available in each location to better meet patient needs.



Cheryl wants to add a new ultrasound machine to one of her clinics, but she's not sure whether it would best be utilized in her East or West clinic. She logs

into VolparaEnterprise software and looks at patient populations (about equal) and distribution of breast density.

VolparaEnterprise software shows Cheryl that the East clinic has a higher proportion of women with BI RADS C/D breasts, so she decides to put the new machine in the East clinic. Problem solved!



Proportion of patients with dense breasts by clinic

Gain a bird's-eye view of your enterprise

Floorplan KPIs give you unique and powerful spatial insights into your workflow.

Volpara customizes your dashboards with the physical layout of each facility. Overlaying individual imaging rooms with statistics helps you envision:

- Workflow and employee actions.
- Utilization and equipment performance.

Compliance

Move from compliance to quality improvement.

FDA EQUIP compliance

VolparaEnterprise software helps you transform your EQUIP compliance process into a quality improvement program:

- **Technologists** get detailed feedback on their work and learn how to improve specific skills.
- **Lead Technologists** can easily locate studies demonstrating the most frequent imaging problems to:
 - Focus discussion at periodic Clinic Image Quality Reviews (CIQRs); and
 - Identify potential corrective actions.
- **Lead Interpreting Physicians** can be confident that implementing a quality improvement program will lead to better image quality.



FDA EQUIP Toolkit for Mammography Centers

Volpara Solutions has developed an EQUIP toolkit containing procedures and forms that help you get started with CIQRs and corrective actions. Use them as is or adapt them for your own purposes. Ask your Volpara Onboarding representative for a copy.

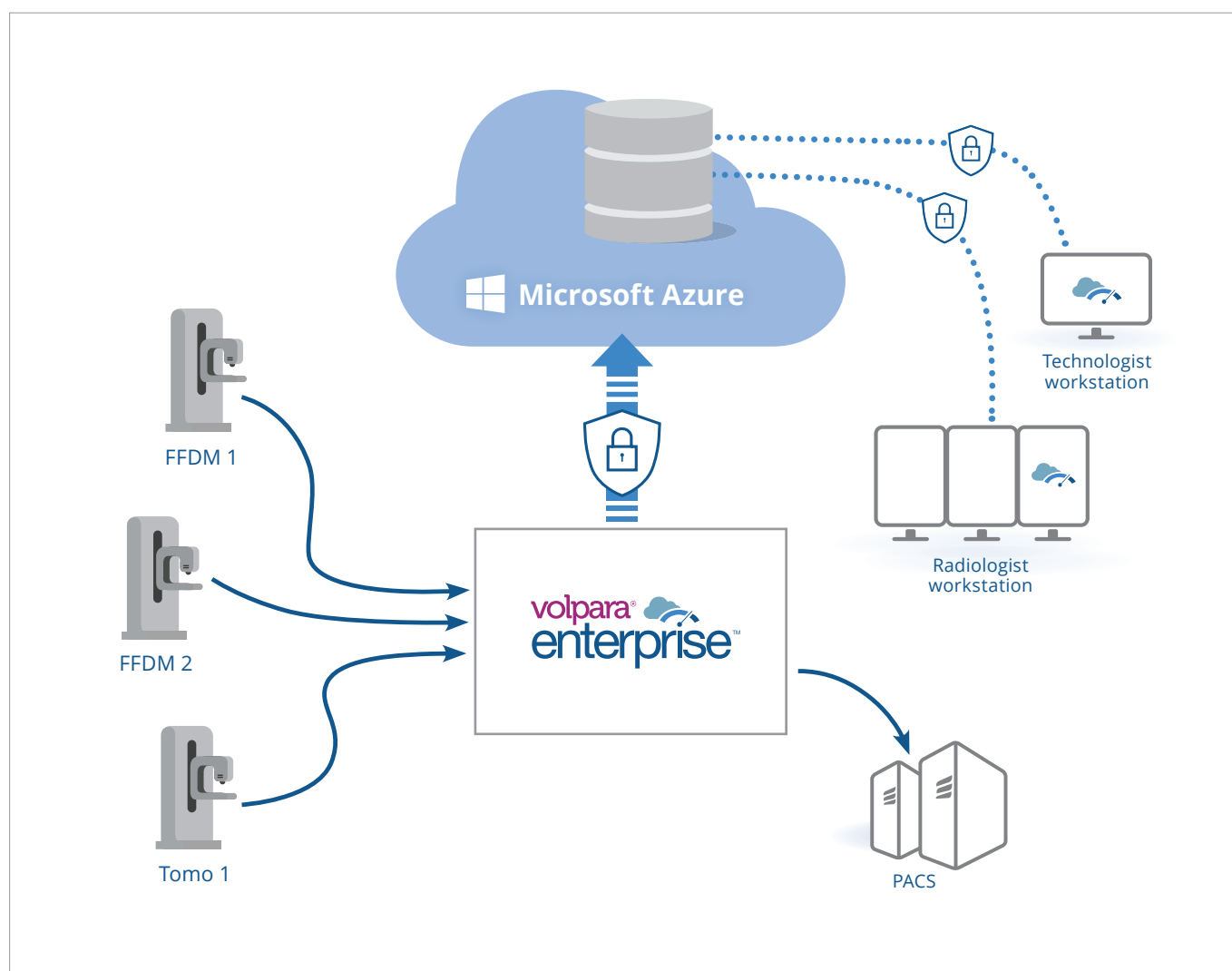
Our Security Commitment

ISO 27001
Information security
management system

- Volpara policies, procedures, practices, and employee training are designed to secure our networks and extend throughout the product lifecycle.
- Data security is a core Volpara value.

Microsoft Azure
Security best
practices

- VolparaEnterprise software leverages industry best practices through Microsoft technologies to secure patient data and ensure confidentiality.
- Volpara Solutions is a global leader in PHI privacy and GDPR compliance.





Join Us

Say “Yes!” to unparalleled analytical power.

To see how VolparaEnterprise software can help you better understand your department, contact your Volpara representative for a live demonstration.

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¹ Marshall, J., et al., The vPGMI Standard Image Evaluation System for Mammography. Volpara Solutions, mtk3065-1. Available from: <https://volparasolutions.com/assets/Uploads/vPGMI-White-Paper.pdf>

² Holland, K., et al., Performance of breast cancer screening depends on mammographic compression, in Breast Imaging: 13th International Workshop, IWDM 2016, Malmö, Sweden, June 19—22, 2016, Proceedings, A. Tingberg, K. Lång, and P. Timberg, Editors. 2016, Springer International Publishing: Cham. p. 183—189.

³ Whelehan, P., et al., The effect of mammography pain on repeat participation in breast cancer screening: a systematic review. Breast, 2013. 22(4): p. 389–94.

⁴ de Groot, J.E., et al., A novel approach to mammographic breast compression: Improved standardization and reduced discomfort by controlling pressure instead of force. Med Phys, 2013. 40(8): p. 081901.