

# Volpara Presentation Schedule

## Abstracts from Volpara research partners and users

Volpara® Risk Pathways™ – Comprehensive risk assessment software to help providers identify high-risk patients and personalize care protocols, as recommended by NAPBC, ACR, SBI, ASBrS and the National Comprehensive Cancer Network® (NCCN®)

### > Outcomes of Supplemental Breast MRI in a High-Risk Screening Program

Elizabeth Wende Breast Care, NY

Drohan, B.; Hill, M.L; Arieno, A.; Salamone, J.; Destounis, S.



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The Elizabeth Wende Breast Center reports on the outcomes of five years of high-risk screening with supplemental MRI and genetic testing. This study shows that using Volpara Risk Pathways and Volpara density assessment software can lead to better outcomes through implementing risk assessment in a large community-based program. The center identified a high-risk population that was shown to have an increased incidence of cancer (OR 1.6;  $p < 0.0001$ ), and that by offering high-risk interventions they could lessen the burden of the disease through early diagnosis, with an odds ratio of 0.4 ( $P = 0.0294$ ) for a T2 or larger cancer in the high-risk group getting MRI compared to the low-risk, non-MRI group.

#### WEDNESDAY, NOVEMBER 29

Session time	Location	Presenter	Institution	Session	Session number	Presentation number
12:15 p.m.	Learning Center	Stamatia Destounis, MD	Elizabeth Wende Breast Care	Scientific Poster Session	W5A-SPBR	W5A-SPBR-7

Volpara® TruDensity™ software – A combination of x-ray physics and machine learning that generates an accurate and objective volumetric measure of breast composition

### > Mammographic Density Assessment: Radiologists, Artificial Intelligence-based Computer-assisted Diagnosis, and Automated Volumetric Measurement

Cho, S.M., et al.



RSNA 2023 registrants can scan to view the full abstracts

This retrospective study reviewed a total of 1,015 screening mammography exams to compare visual BI-RADS assessment by four radiologists to density categorization by one vendor’s artificial intelligence–based computer-aided diagnosis (AI-CAD) density evaluation and by automated volumetric breast density measurement from Volpara software. Results showed the matched rate between radiologists and AI-CAD to be between 56.7% and 67% ( $k = 0.45–0.58$ ), and the matched rate between radiologists and Volpara to be 72% ( $k = 0.64–0.67$ ). The study concludes that Volpara showed substantial agreement with radiologists, better than the AI-CAD.

#### MONDAY, NOVEMBER 27

Session time	Location	Presenter	Session	Session number	Presentation number
12:45 p.m.	Learning Center	Su Min Cho, MD	Scientific Poster Session	M5B-SPBR	M5B-SPBR-9

Volpara® Analytics™ – Artificial intelligence–powered image analysis software that automates and objectively evaluates the quality of every mammogram to reduce audit prep, ensure consistent performance across sites, and optimize staff training

**> Objective improvements in mammography image quality following individualized breast positioning training informed by artificial intelligence**



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Kettering Health, OH

Chan, A.; Martis, L.; Baer, R.; Marx, M.; Johnston, L.R.; Bravo, K.; Hill, M.L.; Harms, J.K.; Grady, S.

This prospective study measured the effect of personalized training informed by AI image quality assessment on mammography quality scores by comparing technologist performance at two different breast imaging organizations, both of which had used Volpara Analytics in their routine clinical practice for more than two years prior to the study. At the intervention site, technologists received expert hands-on positioning training from Mammography Educators that was tailored according to the AI software scores—this was compared to a control site where no personalized training was given. Technologist performance was evaluated at multiple intervals up to six months after training. At the intervention site, a 4% relative increase in an overall quality score was observed, whereas no changes were measured at the control site. The results of this study indicate that personalized technologist training through the use of AI image quality assessment can result in significant and sustained improvements in mammography image quality.

**TUESDAY, NOVEMBER 28**

Session time	Location	Presenter	Institution	Session	Session number	Presentation number
12:45 p.m.	Learning Center	Melissa Hill, PhD	Volpara Health	Quality Improvement Reports	T5B-QI	T5B-QI-3

**> Technologist experience implementing a mammographic image quality improvement program using automated artificial intelligence–based software**



RSNA 2023 registrants can scan to view the full abstracts

Kettering Health, OH

Chan, A.; Martis, L.; Baer, R.; Marx, M.; Johnston, L.R.; Bravo, K.; Hill, M.L.; Harms, J.K.; Grady, S.

This prospective study assessed the satisfaction levels of technologists using Volpara Analytics over a six-month period following a training intervention carried out by Mammography Educators, personalized based on the software’s automated performance reports. Among 55 technologists at a private breast imaging organization spanning 15 clinics, 46 (84%) completed the personalized training and all surveys. Following training, 87% reported they were satisfied or very satisfied with the personalized training profile, and 72% reported that their engagement with the software would increase. Additionally, after training, 87% responded that they frequently implemented changes that improved ergonomics and more than 45% reported that their confidence in communicating with patients increased.

**WEDNESDAY, NOVEMBER 29**

Session time	Location	Presenter	Institution	Session	Session number	Presentation number
12:45 p.m.	Learning Center	Melissa Hill, PhD	Volpara Health	Quality Improvement Reports	W5B-QI	W5B-QI-5



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