

Accelerating Innovations into CarE – Validate Program (AICE-Validate)



Accessible point-of-care breast imaging: defining key use cases for an improved breast imaging technology

PROJECT FAST FACTS

RECIPIENT: Wave View Imaging

PROJECT DURATION: 25 months

AWARD: \$300,000

AWARD DATE: March 1, 2022



THE PROBLEM

Mammograms are the current tool used to screen women for breast cancer. For women over the age of 50, mammography is recommended every two years. However, there are several challenges to using traditional mammography to monitor breast health. Mammograms can be painful, leading many women to delay their scans. Women living in remote areas may have trouble accessing a mammography clinic close to their location. Younger women are not eligible for regular mammogram screening but may be interested in having information about their breast health, including breast density, an identified risk factor for breast cancer. Women undergoing breast cancer treatment can also benefit from breast imaging, but regular screening to give feedback on how treatment is progressing is not usually done. There is a clear need for a convenient, comfortable and easily accessible technology to provide information on breast health that is an alternative to the mammogram.

THE SOLUTION

Wave View Imaging is developing safe, portable and pain-free breast imaging. The technology takes only minutes to scan the breast using low-power microwaves with no risk of heating the tissue. This inexpensive scan can be done in a family doctor's office, medical clinic or imaging centre. Wave View Imaging is designed to fill the gap in clinical breast imaging for breast health by providing easy-to-read images faster, and at the point-of-care. The technology will allow women to know their breast density earlier and take pro-active, de-risking measures to safeguard their health. Wave View could also be used to scan patients who do not qualify for mammography due to age, are in locations where mammography is difficult to access, or to track breast cancer treatment. Scans at point-of-care in cancer centres could provide women with immediate reassurance that their treatment is working, or early indication of treatments that need to be changed.

PROJECT OBJECTIVES

Wave View Imaging, together with researchers from the University of Calgary and the support of NRC-IRAP, are working to reach the following goals:

- Product-market fit for neoadjuvant chemotherapy monitoring and breast density assessment by completing a pilot patient study involving 25 patients.
- Preparation of regulatory documentation and defining regulatory pathway.

ABOUT THE AICE-VALIDATE PROGRAM

AICE-Validate is an opportunity for Alberta's health-tech innovators to accelerate commercialization of digital and data-enabled health technologies through the early validation phase. If you'd like to learn more, please check out [AICE Validate on the Alberta Innovates website](#).

Learn how

albertainnovates.ca