Meet RSViP™

By Kheiron Medical

An AI-enabled invitation tool that focuses attention on women who need breast screening the most

RSViP™ helps breast screening programmes optimise scheduling for women who missed their mammogram due to Covid or other delays. Our proven AI algorithm reviews prior mammograms, and assesses each case based on the potential risk of breast cancer.

The result: unbiased guidance on which women should be invited first for screening.

How do we best manage the Covid-related scheduling backlog?

A staggering number of women missed their routine screening mammogram because of Covid-related closures and delays

Up to **14%** of these women may be recalled for further investigation[1]

These are the women who should be screened as a matter of priority - **but how do we identify them?**

As breast screening programmes reopen, they face ongoing scheduling challenges

- Backlog of postponed mammograms
- Reduced staff
- Decreased capacity due to increased safety protocols

One way to work through the backlog is to prioritise women with a known elevated cancer risk and then work through the remaining backlog chronologically

[1]Rauscher, Garth H., et al. "The "Sweet Spot" Revisited: Optimal Recall Rates for Cancer Detection With 2D and 3D Digital Screening Mammography in the Metro Chicago Breast Cancer Registry." American Journal of Roentgenology 216.4 (2021): 894-902 and Palmer, Whitney J. "The Mammography "Sweet Spot" Recall Rate Is Lower Than Suggested." Diagnostic Imaging.

The RSViP Solution

- Optimise scheduling for unscreened women
- Address Covid-related scheduling backlog
- Schedule appointments earlier for women who need breast screening the most

Credentials

- From the creators of Mia - Kheiron's AI-enabled breast-screening solution developed on 3M+ images
- RSViP's core algorithm comes from Mia and is proven to perform at the level of a radiologist on a representative screening population
  - → Superior on sensitivity, non-inferior on specificity
  - → Highly generalisable to a real-world screening population
  - → Tested on multiple mammography vendor devices and across multiple screening sites
- Already being deployed at leading hospitals

How do we best manage the Covid-related scheduling backlog?

- Risk of the cancer metastasising
- Decreased survivorship
- Increased treatment costs

But time is of the essence...

- What if the woman at the back of the line is the one who should be scheduled first?
- And is the one who has cancer?

What if?

What if we could use AI to analyse prior images of every unscreened woman? What if we could use AI to help identify those women who should be invited first based on an unbiased assessment of the potential to develop breast cancer?

- Faster recall
- Earlier treatment
- Better chance of survival
- Reduced costs
- Reduced anxiety

> **"The performance of your algorithm was scary good on our previously unseen patient data"**
>
> - Leading national healthcare provider

RSViP seamlessly integrates into your scheduling workflow

1. Reviews images from each woman's prior screening
2. Uses machine learning to assess each case based on the potential for breast cancer
3. Generates actionable scheduling list
4. Scheduler arranges earlier appointments for women considered most at risk

KHEIRON MEDICAL TECHNOLOGIES

Learn more about how Kheiron is developing AI to transform breast cancer screening.
Visit www.kheironmed.com or email info@kheironmed.com