

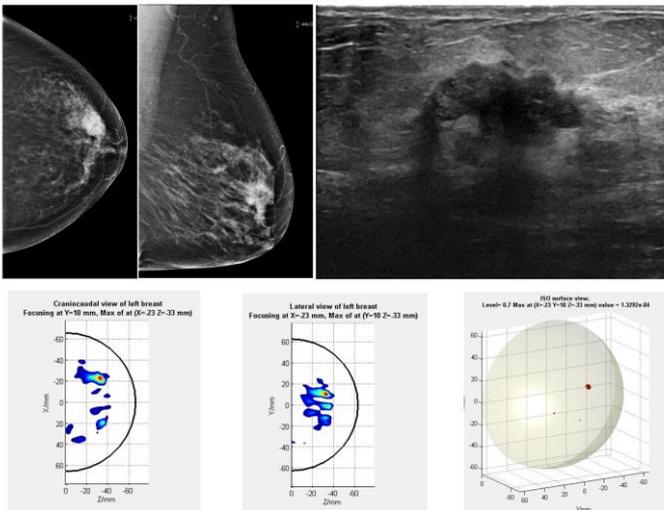
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MARIA™ case studies

Micrima was invited to give a presentation on MARIA™ at the Annual Meeting of the British Society of Breast Radiology. Below are some new cases from our current multi-site trial which were presented at the meeting.

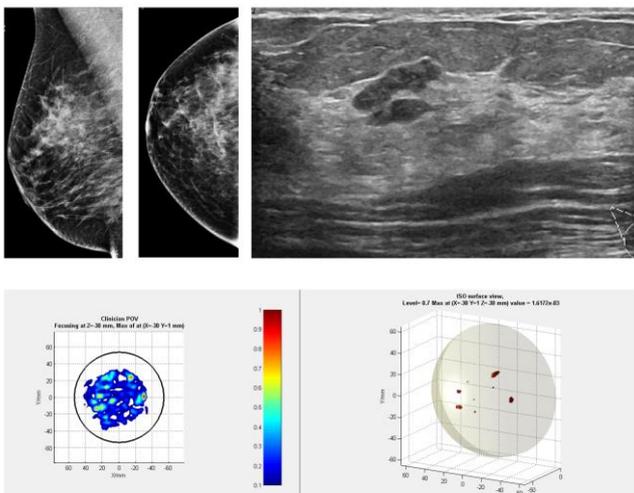
Case 1 – Carcinoma, Age 72, Lucent

Note the good correlation between MARIA™ and conventional imaging (LOA/CC mammogram and ultrasound).



Case 2 – DCIS, Age 46, Lucent

Mammogram normal. Ultrasound showed a well-defined mass. MARIA™ images would seem to show disease not identified in mammogram or ultrasound.



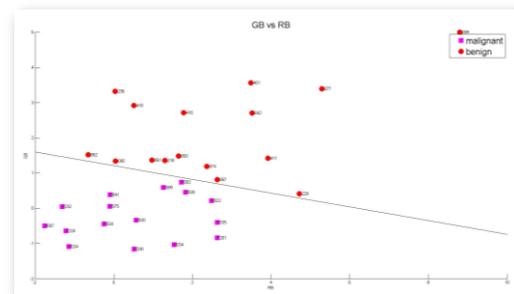
Upcoming publications at ECR 2017

Micrima is pleased to announce that new work using MARIA™ has been accepted for presentation at the European Congress on Radiology, 1-5 March 2017, Vienna. Summaries of both poster presentations are provided below and full abstracts will soon be available from micrima.com.

Cancer detection in dense tissue using radio frequency imaging - a clinical evaluation

MARIA™ continues to demonstrate comparable lesion detection to mammography in a multi-site UK symptomatic trial, but detection performance in dense tissue - in particular, for cancer in dense tissue – significantly exceeds established performance standards for mammography in the on-going study. This poster details the latest lesion detection sensitivity of 90% for breast cancer in dense tissue (classified BI-RAD *c* or *d*). Clinical diagnosis was confirmed by needle biopsy on 21 patients (age range 35-80).

Automatic labelling of lesions using radio frequency feature discrimination.



MARIA™ initial application is as an adjunct to mammography, which struggles to detect cancer in dense tissue. Micrima's development team are making great strides in realising the game-changing capability of the system to offer automatic feature discrimination to breast clinicians. Recent work has focused on labelling clinical findings by tissue type without the need for manual intervention, using only the existing radio-wave data. An initial study on over 30 patients imaged in clinic by MARIA™ shows that it is possible to clearly separate cancer from benign findings. This new functionality has garnered significant interest from clinicians to date and we look forward to presenting the latest results of our work in this area – which will soon be offered as a software upgrade to existing MARIA™ systems - at ECR next March.