

## Quality Criteria in mammography with breast implants.

Women with breast implants are increasingly numerous and have the same risk of developing breast cancer as women without breast implants. This cancer is a major health problem worldwide and the only preventive measure to reduce its impact is mammography, guaranteeing early detection. Although studies have shown lower sensitivity for mammograms with breast implants, the characteristics of the tumors identified and the prognosis at the time of screening are similar for women with or without breast implants.

Mammography with breast implants is a technical as well as a relational challenge for radiographers who express their uncertainty about the achievement and evaluation of the quality of this examination. Women with implants are often anxious at the thought of this examination, an anxiety that may result in reduced collaboration on their part, making optimal positioning and / or compression difficult or impossible. This can have a deleterious impact on the quality of the image, but to our knowledge there is no study that determines the quality criteria of a mammographic image with a breast implant. Radiographers apply the quality criteria described in the best practice recommendations that are implemented within screening programs but do not take into account the peculiarities of a mammography with breast implants.

Considering this, our research project aims to test the feasibility and relevance of the evaluation criteria on the basis of a sample of 150 mammogram images with breast implants, performed in the French speaking part of Switzerland. The analysis of the frequency of the criteria will provide a scientific basis for the retained criteria.

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### Research team

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9 months