

Mammograms don't work if
women won't get them



Fujifilm continues its drive to enable a more comfortable mammogram without sacrificing image quality.

Comfort Comp effectively reduces anxiety and pain associated with mammography, improving the likelihood of patient adherence to periodic screenings and making it a viable strategy for increasing early cancer detection.

The Comfort Comp feature on the ASPIRE Cristalle reduces compression pressure within a 3 mm range. Breast thickness does not change during this brief time interval following normal breast compression, therefore alleviating the patient's discomfort more quickly while maintaining the ability to capture a clear image.

Among surveyed women, 79% answered they felt more relaxed once Comfort Comp was explained to them, and 78% of patients stated they would use it again.

Comfort Comp: For compression reduction control

Comfort Comp extends the patient experience enhancement features currently available on the ASPIRE Cristalle mammography system. Based on the hysteresis phenomenon by which soft biological tissues such as breast¹ and adipose tissue maintain the position generated by past force for a period of time before returning to their neutral position, Comfort Comp triggers a reduction in the amount of compression force after normal breast compression is completed and prior to exposure.

Mammography using Comfort Comp requires that normal breast compression be applied initially to ensure proper breast positioning and to take full advantage of the hysteresis principle (Fig. 1). Once completed, automatic decompression is activated, shortening the time that the breast is under maximum pressure with minimal changes to breast thickness² or image quality.³

Auto-release via Comfort Comp is operated by pressing two buttons on the gantry so decompression can be confirmed while monitoring the condition of the breast (Fig. 1). It can be performed in the same flow as conventional positioning and therefore does not prolong the time until exposure. In addition, while the decompression value can be

set arbitrarily, the system will automatically stop decompression even if the target force value is not reached to ensure that breast thickness does not increase by more than 3 mm.

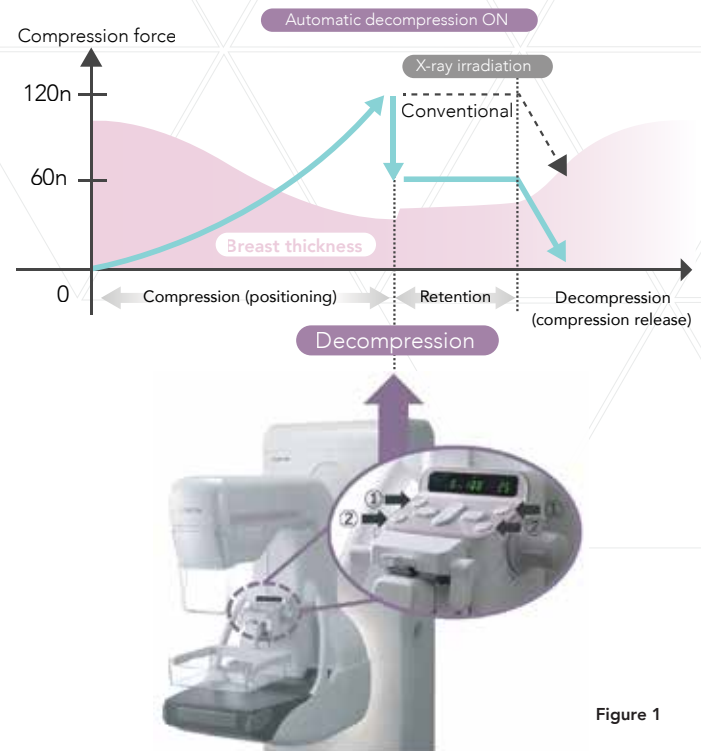
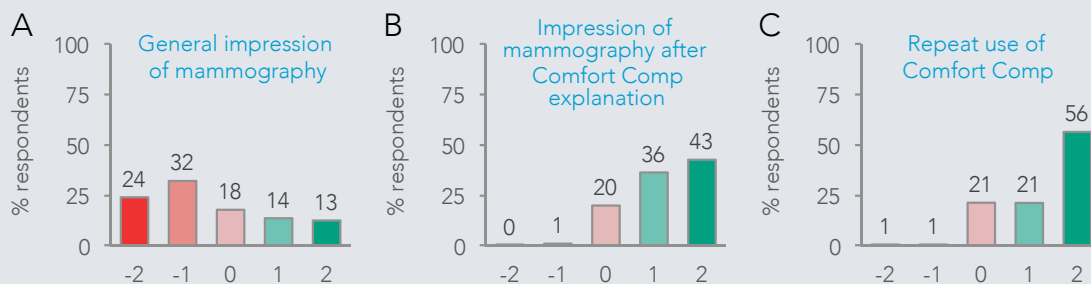


Figure 1

A study of 2,400 women demonstrates that their patient experience was markedly improved with Comfort Comp. 56% of participants indicated they had a negative general impression of mammography prior to exposure to Comfort Comp, while 79% answered they felt more relaxed and/or experienced pain reduction once Comfort Comp was explained to them, and 78% of patients stated they would use it again.



¹Han L, Burcher M, Noble JA. 2002. Non-invas. Measurement of Biomechanical Properties of in vivo Soft Tissues. In: Dohi T, Kikinis R (eds). Medical Image Computing and Computer-Assisted Intervention — MICCAI 2002. MICCAI 2002. Lecture Notes in Computer Science Vol. 2488. Springer, Berlin, Heidelberg. https://doi.org/10.1007/3-540-45786-0_26.

²Poulos A, McLean D, Rickard M, Heard R. 2003. Breast compression in mammography: how much is enough? *Australas Radiol* 47(2):121-6, PMID: 12780439, <https://doi.org/10.1046/j.0004-8461.2003.01139.x>.

³Chida K, Komatsu Y, Sai M, Nakagami A, Yamada T, et al. 2009. Reduced compression mammography to reduce breast pain. *Clin Imaging* 33(1):7-10, PMID: 19135922, <https://doi.org/10.1016/j.clinimag.2008.06.025>.