

Dose Excellence - Mammography



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CHALLENGE

Reduce compression force to improve patients' experience without impacting dose or image quality

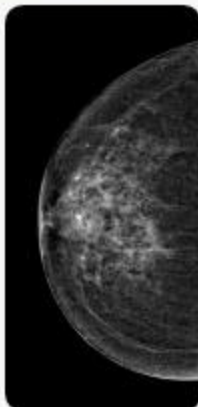


Analysis of initial situation

Patients complained about pain during the studies due to high compression



Professionals from this private clinic willing to **review compression force**, trying to improve patients' experience in standard mammography



Compression values in May 2020:

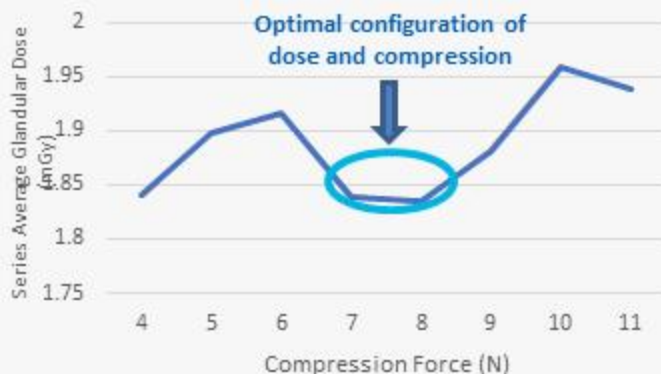
- Average compression of **8.85 N**
- **21% of exams** with a compression force of **10 N or higher**

IDENTIFY IMPROVEMENT OPPORTUNITY

Find the optimal compression values

Analysis of compression force vs dose during 2020:

- 11582 series analysed
- All breast thicknesses and percentages of fibroglandular tissue included

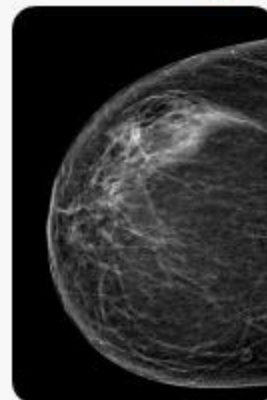


- Reduce average compression values to **7-8 N**

ADJUST COMPRESSION TO OPTIMIZE DOSE

Compare Dose and Compression Levels

Diagnostic image quality is **unaffected** after the change



Compression and dose in April 2021

Compression Force (N)



Series Average Glandular Dose (mGy)



COMPARE INITIAL AND FINAL VALUES

* - Results listed here are of this specific customer and may not be typical. Results are based on factors specific to each customer. GE cannot guarantee these or similar results.

Optimized compression values, implying a dose reduction of 8% and unaffected image quality

