

Performance of MammoCheck (BF9 test)

Serum based assay for the early detection of breast cancer
vs Mammography

TEST CRITERIA	Mammography (MG)	BF9 serum test (BF9)	CONCLUSION
Regular breast SE/SP	78%-86% SE & 89-99% SP (1- 4)	87% to 88% SE & 85-86% SP	BF9 ≤ MG
Regular breast PPV/NPV	4.3%-65% PPV & 98% NPV (1, 5)	12.5% PPV & 99.7% NPV	PPV: BF9 ≤ MG NPV: BF9 > MG
Regular breast false positive Rate (FPR)	12- 24% (6-7)	~10-15%	BF9 ≥ MG
Dense breast Accuracy	47%-86% SE & 57-98% SP (3, 4, 8)	87% to 88% SE & 85-86% SP BM are secreted equally in regular and dense breast	SE: BF9 ≥ MG
I. Lobular Carcinoma (SE)	34%-81% SE (as low as 11% in dense breast)	90% SE	BF9 > MG
I. Ductal Carcinoma (SE)	81% SE (60% in dense breast); (9-10)	87% SE	
Detection of Fibrocystic Changes (FCC)	yes (11)	mostly, no (~only 20%)	BF9 > MG
Analysis type	Subjective interpretation (1, 7, 12)	Measurement of 1 BM	BF9 > MG
Radiation risk	Radiation (13)	NA	BF9 > MG
Compliance	Low (14)	"Likely very high"	BF9 > MG

SE: sensitivity; **SP:** Specificity, **PPV:** Positive Predictive Value, **NPV:** Negative Predictive Value

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