

Supplementary Table 1: 2x2 table for all study participants

	Control	Case	Total
Negative	26	16	42
Positive	2	72	74
Total	28	88	116

Patients determined to be positive for disease if highest Mcm5 signal available was above cut-point of 1800

^a Chi-squared test P<0.001

Supplementary Table 2: 2x2 table for study participants with pre-massage data

	Control	Case	Total
Negative	26	29	55
Positive	2	54	56
Total	28	83	111

Patients determined to be positive for disease if highest Mcm5 signal available was above cut-point of 1800

^a Chi-squared test P<0.001

Supplementary Table 3: Mcm5 signal and test sensitivity for cancer patients, categorized by bone scan and lymph node status

	Pre-message			Post-message			Highest Mcm5 signal		
	n	Mcm5, median (IQR)	Sensitivity, % (CI) P*	n	Mcm5, median (IQR)	Sensitivity, % (CI) P	n	Mcm5, median (IQR)	Sensitivity, % (CI) P
Bone scan									
Negative	32	2125 (<1800–3807)	56 (38–74) –	26	2885 (<1800–4277)	62 (41–80) –	36	3035 (<1800–4502)	69 (52–84) –
Positive	18	4280 (1965–5960)	78 (52–94) 0.15	10	4660 (2492–8015)	90 (55–100) 0.13	18	5270 (3290–7795)	89 (65–99) 0.21
Lymph node									
Negative	23	2180 (<1800–3500)	57 (34–77) –	13	2570 (<1800–4515)	69 (39–91) –	26	2565 (<1800–4132)	65 (44–83) –
Positive	10	3475 (<1800–4585)	60 (26–88) 0.91	5	2260 (<1800–37780)	60 (15–95) 0.78	10	3665 (<1800–5912)	70 (35–93) 0.85

* P value for sensitivity, versus base category (Chi-squared test)

Supplementary Table 4: Mcm5 signal and test sensitivity for cancer patients, categorized by treatment and radiotherapy status

	Pre-message			Post-message			Highest Mcm5 signal					
	n	Mcm5, median (IQR)	Sensitivity, % (CI)	P*	n	Mcm5, median (IQR)	Sensitivity, % (CI)	P	n	Mcm5, median (IQR)	Sensitivity, % (CI)	P
Treatment status												
Untreated	37	2370 (<1800–3985)	57 (39–73)	–	31	3870 (2550–5870)	87 (70–96)	–	39	3870 (2550–5200)	87 (73–96)	–
Treated	46	3300 (<1800–5405)	72 (57–84)	0.15	29	3090 (<1800–4660)	69 (49–85)	0.15	49	3500 (2030–5870)	78 (63–88)	0.36
Radiotherapy												
No	37	2370 (<1800–3985)	57 (39–73)	–	31	3870 (2550–5870)	87 (70–96)	–	39	3870 (2550–5200)	87 (73–96)	–
Yes	21	2040 (<1800–5770)	57 (34–78)	1.00	13	2820 (<1800–3960)	54 (25–81)	0.04	23	3090 (<1800–5660)	70 (47–87)	0.16

* P value for sensitivity, versus base category (Chi-squared test)