

Supplementary table:

Table 1S: The diagnostic category distribution (kappa values and number of cases in each circulation group)

Circulation group	Benign		Atypical hyperplasia		In-situ/ micro-invasive		Invasive		Overall		Participant number
	kappa	n	kappa	n	kappa	n	kappa	n	kappa	n	
19902-19912	0.72	14	0.19	2	0.71	12	0.81	8	0.68	36	329
19921-19931	0.75	13	0.16	1	0.71	9	0.86	13	0.72	36	335
19932-19942	0.81	6	0.15	1	0.74	9	0.88	20	0.77	36	365
19951-19961	0.75	7	0.17	0	0.77	9	0.86	20	0.77	36	438
19962-19972	0.80	6	0.26	1	0.81	9	0.91	20	0.82	36	503
19981-19991	0.84	8	0.13	0	0.69	6	0.90	22	0.79	36	570
19992-20002	0.76	6	0.14	0	0.83	8	0.87	22	0.80	36	581
20011-20021	0.83	7	0.15	0	0.83	7	0.96	22	0.86	36	602
20022-20032	0.79	7	0.18	0	0.75	7	0.90	22	0.79	36	612
20041-20051	0.70	10	0.20	2	0.65	7	0.90	17	0.72	36	637
20052-20062	0.87	16	0.19	1	0.78	2	0.96	17	0.87	36	671
20071-20081	0.82	15	0.10	0	0.70	3	0.92	18	0.80	36	689
20082-20092	0.76	17	0.17	0	0.23	1	0.89	18	0.73	36	734
20101-20111	0.83	10	0.14	1	0.44	0	0.92	25	0.80	36	769
20112-20122	0.79	13	0.18	2	0.75	6	0.90	15	0.78	36	765
20131-20141	0.81	17	0.13	0	0.83	2	0.95	17	0.82	36	749
19902-20141	0.80	172	0.17	11	0.75	97	0.91	296	0.79	576	1507

Please find attached a file contain the participant numbers for each circulation group and overall. As you will see the overall figure is less than that which you had calculated - this is because pathologists may have participated in more than one of the circulation groups but are only counted once.

Further, since sending you the amendments for Table 4b, Derek and I have had further discussions, and I also noted that the figures did not reconcile with those in Table 4a. I now attach the revised and final version of the table (please ignore the previous file). Additionally the text of the manuscript needs to be altered in the Results section for Invasive Tumour size. The final sentence should read:

The results suggest that there were fewer outliers since the last review, with at least 80% of readings being within +/-3mm of the median for 93% of ductal NST cases between 20011-20141 compared to 84% of cases in the earlier period of the scheme.