## **EXCITE Supplementary Online Material, Tables**

## Online Material Table 1. EXCITE treatment compliance

B. U. (I	
Radiotherapy	47 (570/)
Full dose (45 Gy) received without delay as per protocol	47 (57%)
Full dose (45 Gy) received with delay due to adverse events  Dose reduction	29(35%) 4 (5%)
Did not start	2 (2%)
Median dose received in Gy (IQR)	45 (45-45)
Wedian dose received in Gy (IQIV)	40 (40-40)
Irinotecan	
Full dose received (240 mg/m²) without delay	46 (56%)
Full dose received (240 mg/m²) with delay	10 (12%)
Dose reduction	24 (29%)
Did not start	2 (2%)
Number of cycles given	
0	2 (2%)
1	0
2	5 (6%)
3	18 (22%)
4	57 (70%)
Median dose received (mg/m²)	238 (180-242)
Cetuximab	
Full dose received (1650 mg/m²) without delay	51 (62%)
Full dose received (1650 mg/m²) with delay	9 (11%)
Dose reduction	21 (26%)
Did not start	1 (1%)
Number of cycles given	
0	1 (1%)
1	1 (1%)
2	0 (0%)
3	2 (2%)
4	2 (2%)
5	14 (17%)
6 . Madian dans manipud (1997/1923)	62 (76%)
Median dose received (mg/m²)	1650 (1548-1657)
Capecitabine	
Full dose received without delay	35 (43%)
*Alteration to capecitabine due to:	45 (55%)
treatment not taken	8 (10%)
treatment reduction	12 (15%)
treatment delayed	4 (5%)
treatment not taken and reduced	9 (11%)
treatment not taken and delayed	1 (1%)
treatment reduction and delayed	9 (11%)
treatment not taken, reduced and delayed	2 (2%)
Did not start Capecitabine	2 (2%)

<sup>\*</sup>In addition to the central record of the dose of capecitabine prescribed, patients kept a weekly record of prescribed tablets that were not taken

# Online Material Table 2. Details of surgery in the 76 patients undergoing resection<sup>1</sup>, together with post operative complications within 30 days of surgery

Type of surgery	Number (%)		
Abdominoperineal excision	38 (50%)		
Anterior resection	36 (47%)		
Hartmann's procedure	2 (3%)		
Complications within 20 days of common.			
Complications within 30 days of surgery	2 (40()		
Anastomotic dehiscence	3 (4%)		
Perineal wound dehiscence	7 (9%)		
Haemorrhage within the operative field necessitating return to theatre	1 (1%)		
Wound infection	12 (16%)		
Pelvic infection	4 (5%)		
Serious infection elsewhere	7 (9%)		
Peritonitis	2		
Pneumonia	1		
Presacral collection	1		
Subphrenic	1		
Cannula site	1		
Urinary sepsis	1		
Re-catheterisation	12 (16%)		
Venous thromboembolic event	1 (1%)		
Myocardial infarction	0 (0%)		
Cerebrovascular accident	0 (0%)		
Ventilation required for >24 hours	0 (0%)		
Acute respiratory distress syndrome	0 (0%)		
Re-admission after discharge	13 (17%)		
Death within 30 days of operation	1 (1%)		
Other <sup>2</sup>	9 (12%)		
Any (of the above) post-surgical complications	33 (43%)		
Time spent on ITU/HDU post-op (days)			
0	32 (42%)		
1	14 (18%)		
2-5	15 (20%)		
6-10	2 (3%)		
Missing	13 (17%)		
Median in days (IQR)	0.5 (0 to 2)		
Total time as in-patient, post-op (days)			
0	1 (1%)		
1-10	45 (59%)		

11-20	14 (18%)
21-30	5 (7%)
31-40	2 (3%)
Missing	9 (12%)
Median in days (IQR)	8 (5.5 to 12)

<sup>&</sup>lt;sup>1</sup>In 4 patients a 'wait and watch' approach was adopted by the treating team because of a complete clinical response to CRT.

<sup>&</sup>lt;sup>2</sup> Nine patients had 15 grade 3-5 "other" surgical complications post-surgery: One patient had two grade 5 events: ileus and aspiration (and grade 4 vomiting). Two patients had a maximum grade 4 (small bowel obstruction; bleeding associated with surgery). The other six patients had a maximum of grade 3 - abdominal pain (3); DVT (1); type 2 respiratory failure (1); shortness of breath (1); chest infection (1); rectal/pelvic pain (1); oedema (1); low magnesium (1).

### Online Material Table 3. Number of EGFR pathway mutations per sample (including detail of samples containing multiple mutations) in biopsy and resection specimen

#### **BIOPSY**

	Number of samples containing indicated number of EGFR pathway mutations by PS/NGS*	Detail (percentage of mutant DNA)
No mutation	28 (36%)	
Single mutation	33 (42%)	-
Double mutation	12 (15%)	KRAS 12 c.35G>A (35%)
		& KRAS 12 c.35G>T (16.6%)
		KRAS 12 (33%) & KRAS 13 (5%)
		KRAS 12 (26%) & KRAS 13 (7%)
		KRAS 12 (22%) & PIK 545/6 (26%)
		KRAS 12 (36%) & PIK 542 (27%)
		KRAS 12 (8%) & BRAF (22%)
		KRAS 13 (41%) & PIK 545/6 (40%)
		KRAS 13 (7%) & PIK 542 (9%)
		KRAS 146 (6%) & NRAS 61 (17%)
		KRAS 146 (33%) & PIK 545/6 c.(37%)
		KRAS 146 (5%) & PIK 1047 (7%)
		BRAF (30%) & PIK 545/6 (25%)
Triple mutation	4 (5%)	KRAS 12 (28%) & KRAS 13 (8%) & PIK 542 (28%)
·	. ,	KRAS 12 (9%) & KRAS 13 (5%) & PIK 545/6 (10%)
		KRAS 146 (9%) & PIK 542 (5%) & PIK 545/6 (5%)
		KRAS 146 (5%) & PIK 1047 (6%) & PIK 1047 (29%)
Quadruple mutation	1 (1%)	KRAS 12 (5%) & KRAS 12 (6%) & KRAS 12 (5%) & NRAS 12/13
•	• •	c.35G>A (24%)
Total	78 (100%)	

#### **RESECTION**

	Number of samples containing indicated number of mutations by PS/NGS**	Detail (percentage of mutant DNA)
No mutation	20 (37%)	-
Single mutation	26 (48%)	
Double mutation	7 (13%)	KRAS 12 (25%) & KRAS 12 (7%)
		KRAS 12 c.35G>T (13%) & KRAS 146 c.436G>A (5%)
		KRAS 12 (18%) & PIK 542 (24%)
		KRAS 12 (51%) & PIK 542 (5%)
		KRAS 12 (14%) & PIK 545/6 (10%)
		KRAS 12 (34%) & PIK 1047 (19%)
		KRAS 13 (35%) & PIK 542 (26%)
Triple mutation	1 (2%)	KRAS 12 (14%) & KRAS 12 (24%) & KRAS 146 (33%)
Total	54 ´	

NA: not applicable; PS: pyrosequencing; NGS: next generation sequencing \*One sample did not have enough DNA to run matched NGS (KRAS 12 mutant on PS)

<sup>\*\*</sup>Four samples did not have enough DNA to run matched NGS (two non-mutated, one KRAS 12 mutated and one KRAS 13 mutated on PS)