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FOCUS4 Trial Investigators; Adams, Richard A.; Fisher, David J.; Graham, Janet; Seligmann, Jenny F.; Seymour, Matthew; Kaplan, Richard; Yates, Emma; Parmar, Mahesh; Richman, Susan D.; Quirke, Philip; Butler, Rachel; Brown, Ewan; Collinson, Fiona; Falk, Stephen; Wasan, Harpreet: Shiu, Kai Keen: Middleton, Garv: Samuel, Leslie: Wilson, Richard H. DOI:

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Capecitabine Versus Active Monitoring in Stable or Responding Metastatic Colorectal Cancer After 16 Weeks of First-Line Therapy: Results of the Randomized FOCUS4-N Trial Richard A. Adams, MD¹; David J. Fisher, MSc²; Janet Graham, MD³; Jenny F. Seligmann, PhD⁴; Matthew Seymour, PhD⁴; Richard Kaplan, MD, PhD²; Emma Yates, MSc²; Mahesh Parmar, PhD²; Susan D. Richman, PhD⁴; Philip Quirke, PhD⁴; Richard Kaplan, MD, PhD²; Emma Yates, MSc²; Mahesh Parmar, PhD²; Susan D. Richman, PhD⁴; Philip Quirke, PhD⁴;

Richard A. Adams, MD¹; David J. Fisher, MSc²; Janet Graham, MD³; Jenny F. Seligmann, PhD⁴; Matthew Seymour, PhD⁴;
Richard Kaplan, MD, PhD²; Emma Yates, MSc²; Mahesh Parmar, PhD²; Susan D. Richman, PhD⁴; Philip Quirke, PhD⁴;
Rachel Butler, PhD⁵; Ewan Brown, MD⁶; Fiona Collinson, MD⁴; Stephen Falk, MD⁷; Harpreet Wasan, PhD⁸; Kai-Keen Shiu, PhD⁹;
Gary Middleton, PhD¹⁰; Leslie Samuel, MD¹¹; Richard H. Wilson, PhD³; Louise C. Brown, PhD²; and Timothy S. Maughan, MD¹²
on behalf of the FOCUS4 Trial Investigators

abstract

PURPOSE Despite extensive randomized evidence supporting the use of treatment breaks in metastatic colorectal cancer (mCRC), they are not universally offered to patients despite improvements in quality of life without detriment to overall survival (OS). FOCUS4-N was set up to explore the impact of oral maintenance therapy in patients who are responding to first-line therapy.

METHODS FOCUS4 was a molecularly stratified trial program that registered patients with newly diagnosed mCRC. The FOCUS4-N trial was offered to patients in whom a targeted subtrial was unavailable or biomarker tests failed. Patients were randomly assigned using a 1:1 ratio between maintenance capecitabine and active monitoring (AM). The primary outcome was progression-free survival (PFS) with secondary outcomes including OS toxicity and tolerability.

RESULTS Between March 2014 and March 2020, 254 patients were randomly assigned (127 to capecitabine and 127 to AM) across 88 UK sites. Baseline characteristics were balanced. There was strong evidence of efficacy for PFS (hazard ratio = 0.40; 95% CI, 0.21 to 0.75; P < .0001), but no significant improvement in OS (hazard ratio, 0.93; 95% CI, 0.69 to 1.27; P = .66) was observed. Compliance with treatment was good, and toxicity from capecitabine versus AM was as expected with grade ≥ 2 fatigue (25% v 12%), diarrhea (23% v 13%), and hand-foot syndrome (26% v 3%). Quality of life showed little difference between the groups.

CONCLUSION Despite strong evidence of disease control with maintenance therapy, OS remains unaffected and FOCUS4-N provides additional evidence to support the use of treatment breaks as safe management alternatives for patients who are stable or responding to first-line treatment for mCRC. Capecitabine without bevacizumab may be used to extend PFS in the interval after 16 weeks of first-line therapy.

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INTRODUCTION

Treatment breaks in patients receiving palliative chemotherapy for metastatic colorectal cancer (mCRC) reduce toxicity burden and improve quality of life (QoL).¹ However, current standards either mandate or recommend a strategy of continuing therapy, until progression or excess toxicity. Standard maintenance strategies in high-income countries favor combined oral capecitabine with intravenous bevacizumab once every 3 weeks,^{2,3} on the basis of the phase III CAIRO3⁴ and AIO-0207⁵ studies. Health economic evaluation of this approach has previously indicated a lack of cost-effectiveness driven by nonsignificant improvement in overall survival (OS) and high costs of intravenous

bevacizumab (drug plus administration).⁶ Previous studies have evaluated a range of strategies to either completely stop therapy as a treatment holiday, reducing toxicities and hospital visits, or attenuate therapy, removing certain drugs as a maintenance therapy in comparison with historic standard-of-care continuation of maximum tolerated dose of treatment. Meta-analysis of these approaches overall shows no difference in OS.⁷ Notably, maintenance strategies, almost uniformly, demonstrate an improvement in progression-free survival (PFS), but at the expense of ongoing (though attenuated) toxicity and unending multiple hospital visits for intravenous therapy. In the FOCUS4-N trial (embedded within the FOCUS4 trial



Data Supplement

Protocol

Author affiliations and support information (if applicable) appear at the end of this article.

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CONTEXT

Key Objective

In patients with metastatic colorectal cancer, first-line systemic anticancer therapy (SACT) with palliative intent aims to extend overall survival (OS) while maintaining quality of life. Current guidelines recommend a maintenance strategy of oral capecitabine and bevacizumab in patients with disease control after 4-6 months of induction SACT. This is based upon improved progression-free survival (without evidence of OS benefit) compared with a complete treatment break with active monitoring (AM). FOCUS4-N aims to establish the impact of maintenance capecitabine monotherapy versus AM.

Knowledge Generated

These results demonstrate that capecitabine can double the time until return to induction SACT. However, patients may adopt an AM approach without detriment in OS and with less toxicity.

Relevance

FOCUS4-N provides information for patients and clinicians, which will assist decision making at the end of induction SACT. Capecitabine without intravenous bevacizumab is likely more cost-effective than the current recommended approach of capecitabine and bevacizumab.

program, see the Data Supplement [online only]), we have explored the oral strategy of capecitabine only versus active monitoring (AM). This will allow us to study the potential impact on PFS, toxicity, and QoL, which will enable patients and clinicians to choose an optimum approach tailored to the individual.

The FOCUS4 trial program is a molecularly stratified umbrella platform trial (Data Supplement) that evaluated safety and efficacy of novel treatments in targeted biomarker subgroups within a phase II or III trial setting. The trial used adaptive statistical methodology that allowed the addition of new therapies and the dropping of ineffective ones and including a nonstratified comparison (FOCUS4-N) for patients in whom a molecularly stratified comparison was unavailable or the biomarker tests failed for their tumor tissue. In the Data Supplement, we describe the design and methods for patient registration and biomarker testing. In this article, we report the findings of FOCUS4-N, which tested the efficacy of capecitabine as a maintenance therapy versus AM in patients with mCRC.

METHODS

Trial Approvals, Patient Eligibility, and Recruitment

The trial and subsequent amendments were approved by the UK National Ethics Committee Oxford (reference 13/SC/ 0111) and by the relevant regulatory body MHRA (CTA# 20363/0400/001 and EudraCT# 2012-005111-12).

Patients age at least 18 years with newly diagnosed locally advanced or mCRC were eligible for registration in the FOCUS4 trial program (see the Data Supplement for details of FOCUS4 design and registration methods). Patients whose tumors had remained stable or responded to treatment according to their 16-week computed tomography (CT) were assessed for eligibility for the FOCUS4-N comparison. In addition to the registration eligibility criteria, patients were required to have a baseline randomly assigned CT scan performed within 4 weeks prerandomization; a minimum 3-week washout period between the last chemotherapy or biologic therapy dose and the first capecitabine dose; adequate renal (creatinine clearance > 50 mL/min) and liver function; and a WHO performance status of 0-2. Patients who were eligible for either FOCUS4-N or a molecularly stratified trial were offered entry into either and given the option of which study to participate in, followed by appropriate consent.

In the first phase of FOCUS4 between January 2014 and June 2017, patients with raised baseline platelet count (thrombocytosis) were considered ineligible on the basis of previous data from the COIN trial (which indicated a significant survival detriment in this patient group receiving an intermittent strategy).¹ A subsequent individual patient data meta-analysis of phase II or III intermittent strategy trials did not confirm the observation from COIN.⁸ Thus, between June 2017 and March 2020, eligibility criteria were adapted, allowing inclusion of this patient group with thrombocytosis.

Trial Procedures

Patients randomly assigned to capecitabine were asked to continue taking the drug until disease progression, death, or intolerable toxicity. Capecitabine was dosed according to standard guidelines, orally twice daily for 14 days followed by a 7-day rest period without capecitabine tablets.

Patient tumor status was assessed every 8 weeks by CT scan reviewed at the treating hospital site according to RECIST version 1.1.⁹ Toxicities and symptoms were assessed locally every 4 weeks from random assignment or start of treatment using NCI CTCAE (version 3.0). Patients were followed until progressive disease, at which point the

patient was recommended to restart first-line systemic therapy.

Treatment was stopped for grade ≥ 3 toxic effects or persistent toxicities judged medically important or not tolerated by the patient, until the toxicity resolved to grade 1 or better. After stopping treatment, capecitabine could be reinitiated at a reduced dose. Any stoppage for ≥ 28 days was not permitted, with the patient discontinued from trial therapy but remaining under follow-up.

QoL data using EQ-5D were collected at random assignment, every 8 (7-9) weeks until progression, 4 weeks after end of trial treatment, 3 months after progression, and then every 6 months.

Statistical Methods

Treatment allocation. Patients were allocated to capecitabine or AM by a centrally managed telephone service at the MRC Clinical Trials Unit at University College London, using a 1:1 allocation ratio by minimization with a random element of 20%. Minimization factors were treating hospital site, primary tumor site (right colon, left colon, or rectum), WHO performance status (0, 1, or 2), 16-week CT scan result (stable disease and partial or complete response), number of metastatic sites (none, one, or two or more), and first-line therapy regimen (fluorouracil, capecitabine, or neither; both oxaliplatin and irinotecan, irinotecan only, or neither; and cetuximab or panitumumab, bevacizumab, or no monoclonal antibody).

Outcome measures. The primary FOCUS4-N outcome was PFS, defined as time from random assignment to either disease progression (according to RECIST criteria) or death from any cause. Patients without a PFS event were censored at the time of their last recorded CT scan. OS was a secondary outcome, defined as time from random assignment to death from any cause with patients censored at last recorded disease assessment, blood measurement, or anticancer treatment. Other secondary outcomes included safety, toxicity, QoL, and tumor response. QoL was analyzed using mixed-effects linear modeling with patient-level random intercepts and time slopes, with differences by the treatment arm tested by evaluating the area under the curve from the model.

Sample size calculation. The FOCUS4-N target sample size was calculated using the Analysis of Resources for Trials program implemented in Stata software. Given that the recruitment rate into FOCUS4-N was dependent on the availability of other molecular comparisons, failure of biomarker testing, or patient choice, exact recruitment figures were unknown at the trial commencement. Various scenarios were used to estimate the recruitment rate over 5 years, and we assumed a 4-month median PFS in the AM arm (on the basis of COIN trial data). A total of 644 patients (635 events) would provide 80% power of detecting a hazard ratio (HR) of 0.8 at the two-sided 5% significance level.

In March 2020, the COVID-19 pandemic resulted in temporary closure of FOCUS4 to new recruitment. Following Independent Data Monitoring Committee review and recommendation, a decision was taken to close recruitment permanently in April 2020 as trial funding was nearing its end. A previous review of the implications of reduced recruitment on the statistical power of FOCUS4-N had been considered by our funders who recommended that, despite reduced power, the trial should close in 2020 and report the data accrued up to that point. Furthermore, at analysis, it became clear that the observed HR was substantially more extreme than the target HR on which we based our original sample size.

Statistical analysis. All analyses were performed according to a predefined statistical analysis plan agreed before database lock. We analyzed using Stata statistical software, version 16.1 (Stata Corporation, TX). The primary analysis was performed according to intention-to-treat with a secondary per-protocol analysis defined by patients who completed at least one cycle of trial treatment (\geq 28 days). Patients were censored according to the following criteria. For survival status, we censored patients on the date that they were last known to be alive, either via collection of prescription from their hospital pharmacy or attendance at a follow-up visit or CT scan. For PFS, we censored patients without progression on the date of the last CT scan showing no progression. For patients who died before any follow-up visit or CT scan, we used the date of death as the date of the event and assumed death without progression, provided that the death occurred within 3 months of random assignment or any previous scan confirming no progression.

Kaplan-Meier curves were used to present survival data and Cox regression modeling to estimate HRs between randomized groups. Unadjusted HRs and the ones adjusted for the stratification factors used to minimize patients into allocated groups (primary analysis) were estimated. A further analysis also adjusted for resection status, timing of metastatic disease, alkaline phosphatase, white blood cell count, age of tumor sample, and use of aspirin at baseline. Deviation from nonproportional hazards was assessed using regression of scaled Schoenfeld residuals against the log of time.

RESULTS

Recruitment and Compliance

Across 88 UK hospitals, between January 2014 and March 2020, 1,434 patients were registered into FOCUS4, of whom 924 underwent successful biomarker assessment and completed 16 weeks of first-line therapy with either stable or responding disease (Data Supplement). Of these patients, 254 were randomly assigned to FOCUS4-N (Fig 1), 127 to AM and 127 to maintenance capecitabine.



FIG 1. Flow diagram showing patient flow through the FOCUS4-N trial. CR, complete response; PR, partial response; SD, stable disease.

Baseline demographic and clinical characteristics were well-balanced between the study arms (Table 1 and Appendix Table A1, online only). Most patients had widespread synchronous metastatic disease with about half having an unresected primary tumor. A right-sided primary Supplement shows induction chemotherapy for all patients

tumor location was present in about one third. The majority were treated with doublet chemotherapy (irinotecan-based 57%) without a monoclonal antibody (as bevacizumab is not reimbursed in the United Kingdom). The Data

TABLE 1. Baseline Characteristics for FOCUS4-N

TABLE 1. Baseline Characteristics for FOCUS4-N (continued)

Characteristic	Active Monitoring (n = 127)	Capecitabine (n = 127)				
Mean (SD) age, years	63.7 (10.9)	64.7 (9.6)				
Sex, No. (%)						
Male	76 (60)	86 (68)				
Female	51 (40)	41 (32)				
Baseline WHO performance status, No. (%)						
0	76 (60)	80 (63)				
1	49 (39)	45 (35)				
2	2 (2)	2 (2)				
Site of primary tumor, No. (%)						
Right colon	45 (35)	47 (37)				
Left colon	32 (25)	33 (26)				
Rectum	50 (39)	47 (37)				
Current state of primary tumor, No. (%)						
Resected primary	62 (49)	54 (43)				
Unresected primary	61 (48)	68 (54)				
Unresected local recurrence	4 (3)	5 (4)				
No. of metastatic sites, No. (%)						
No metastases	2 (2)	4 (3)				
One	41 (32)	40 (31)				
Two or more	84 (66)	83 (65)				
Timing of metastases, No. (%)						
Metachronous	40 (31)	21 (17)				
Synchronous	85 (67)	101 (80)				
No metastases	2 (2)	4 (3)				
Missing data	0 (0)	1 (1)				
Disease assessment at end of first- line treatment, No. (%)						
Complete response	3 (2)	5 (4)				
Partial response	75 (59)	71 (56)				
Stable disease	49 (39)	51 (40)				
Fluoropyrimidine drug used during first-line treatment, No. (%)						
FU	95 (75)	97 (76)				
Capecitabine	32 (25)	30 (24)				
Oxaliplatin or irinotecan used during first-line treatment, No. (%)						
Both oxaliplatin and irinotecan	2 (2)	2 (2)				
Oxaliplatin only	50 (39)	50 (39)				
Irinotecan only	73 (57)	71 (56)				
Neither	2 (2)	4 (3)				
Monoclonal antibody used during first-line treatment, No. (%)						
(continued in next column)						

Characteristic	Active Monitoring (n = 127)	Capecitabine (n = 127)
Cetuximab/panitumumab	25 (20)	20 (16)
Bevacizumab	6 (5)	7 (6)
No antibody	96 (76)	100 (79)
PIK3CA mutation status, No. (%)		
Mutation	15 (12)	14 (11)
Wild type	96 (76)	100 (79)
Failed	7 (6)	5 (4)
Insufficient tumor	9 (7)	8 (6)
BRAF mutation status, No. (%)		
Mutation	13 (10)	17 (13)
Wild type	103 (81)	98 (77)
Failed	2 (2)	4 (3)
Insufficient tumor	9 (7)	8 (6)
RAS mutation status, No. (%)		
Mutation	68 (54)	68 (54)
Wild type	47 (37)	48 (38)
Failed	3 (2)	3 (2)
Insufficient tumor	9 (7)	8 (6)
TP53 mutation status, No. (%)		
Mutation	61 (48)	62 (49)
Wild type	33 (26)	28 (22)
Failed	3 (2)	2 (2)
Could not be tested	18 (14)	24 (19)
Insufficient tumor	12 (9)	11 (9)
MSI status, No. (%)		
MSS	108 (85)	104 (82)
MSI	2 (2)	3 (2)
Failed	2 (2)	4 (3)
Could not be tested	6 (5)	8 (6)
Insufficient tumor	9 (7)	8 (6)
Total	127 (100)	127 (100)

Abbreviations: FU, fluorouracil; MSI, microsatellite instable; MSS, microsatellite stable; SD, standard deviation.

in FOCUS4, and the Data Supplement shows disease response to induction chemotherapy on the basis of biomarker subgroup. The molecular characteristics are shown in Table 1 (and the Data Supplement for all FOCUS4 participants), showing that only 37% had an *RAS* wildtype tumor reflecting NHS England policy of not allowing treatment breaks for patients on epidermal growth factor receptor monoclonal antibodies.

Compliance with randomized allocation was good with only one patient in the AM arm receiving capecitabine approximately 6 months before progression. Patients in



FIG 2. Kaplan-Meier curve for PFS in FOCUS4-N. Cox regression HR, adjusted for minimization factors = 0.40 (95% CI, 0.21 to 0.75), P < .0001. Minimization factors: location of primary tumor (left, right, and rectum), baseline WHO performance status, baseline disease assessment, No. of metastases, first-line therapy (fluoropyrimidine, oxaliplatin or irinotecan, and monoclonal antibody), and biomarker cohort, stratified for FO-CUS4 trial timepoints. AM, active monitoring; HR, hazard ratio; PFS, progression-free survival.

the capecitabine arm received a median of four cycles (interquartile range, 2-8).

Primary Outcome: PFS

There were 122 of 127 PFS events in the AM arm and 117 of 127 in the capecitabine arm. The median PFS in the capecitabine arm was 3.88 months (95% CI, 3.65 to 4.37) and 1.87 months (95% CI, 1.81 to 2.14) in the AM arm. Unadjusted and adjusted HRs were 0.44 (95% CI, 0.33 to 0.57), P < .0001 and 0.40 (95% CI, 0.21 to 0.75), P < .0001, respectively. Figure 2 shows Kaplan-Meier curves. Per-protocol analyses demonstrated very similar findings; unadjusted and adjusted HRs were 0.42 (95% CI, 0.32 to 0.55), P < .0001 and 0.38 (95% CI, 0.28 to 0.51), P < .0001, respectively. There was no evidence to suggest deviation from the proportional hazards assumption (P = .084).

0S

There were 90 of 127 deaths in the AM arm and 99 of 127 deaths in the capecitabine arm. The median time to death was 15.2 months (95% CI, 12.1 to 18.5) in the AM arm versus 14.8 months (95% CI, 23.7 to 18.6) in the capecitabine arm, with no survival difference between the arms; unadjusted and adjusted HRs were 1.00 (95% CI, 0.75 to 1.33), P = .98 and 0.93 (95% CI, 0.69 to 1.27), P = .66, respectively. Kaplan-Meier curves are presented in Figure 3. There was no evidence to suggest deviation from the proportional hazards assumption (P = .58).

Subgroup Analyses

Preplanned subgroup analysis for PFS (Fig 4A) suggested better PFS with a maintenance strategy in left-sided tumors (HR 0.38 v 0.56 for right-sided, interaction P = .13), and a similar observation was seen with OS (HR 0.82 for left-sided v 1.37 for right-sided, interaction P = .076; Fig 4B). There was a suggestion that patients with tumoral loss of phosphatase and tensin homolog and PIK3CA mutations may show less benefit from maintenance capecitabine than other molecular subgroups (PFS HR 0.74, OS HR 1.47), although this was not statistically significant. For OS, the only other notable subgroup effect was that those with stable disease at random assignment appeared to benefit from maintenance capecitabine, whereas those with partial response did not (OS HR 0.63 and 1.42, respectively, interaction P = .005; Fig 4B). Swimmer plots show the distribution of individual patient PFS duration and timing of CT scans by left- versus right-sided disease (Appendix Fig A1, online only).

Toxicity

Cumulative toxicities were substantially less in the AM arm, with increased toxicities associated with capecitabine maintenance including diarrhea, dry skin, fatigue, nausea, and palmar-plantar erythema (PPE; Fig 5). Ideally, a maintenance therapy should result in no toxicity. Incidence of grade zero as the worst toxicity reported per patient is therefore instructive and is as follows for AM and capecitabine maintenance, respectively: nausea 74% versus



FIG 3. Kaplan-Meier curve for OS in FOCUS4-N. Cox regression HR, adjusted for minimization factors = 0.93 (95% CI, 0.69 to 1.27), P = .66. Minimization factors: location of primary tumor (left, right, and rectum); baseline WHO performance status; baseline disease assessment; No. of metastases; first-line therapy (fluoropyrimidine, oxaliplatin or irinotecan, and monoclonal antibody); and biomarker cohort, stratified for FOCUS4 trial timepoints. AM, active monitoring; HR, hazard ratio; OS, overall survival.

67%, diarrhea 72% versus 46%, stomatitis 90% versus 77%, dry skin 83% versus 77%, PPE 87% versus 44%, and anemia 69% versus 54% (Appendix Table A2, online only).

During the trial, 51% of patients who received capecitabine had at least one cycle delayed, 37% had a dose reduction, and 34% missed at least one dose (within a cycle). Fifty percent of capecitabine patients commenced at least four cycles, and 25% commenced at least eight cycles.

QoL

EQ-5D forms were completed in 93% (AM) and 90% (capecitabine) at baseline (prerandomization but postinduction chemotherapy). The Protocol (online only) mandated completion every 8 weeks until progression and 6-monthly thereafter; for analysis purposes, all available forms were forced into an 8-week schedule. On this basis, 63%, 45%, and 33% of randomly assigned patients had data available at 8, 16, and 24 weeks, respectively, with continuous decline thereafter. Modeling was applied to data up to 48 weeks, since data became too sparse beyond this. No notable differences were seen in mobility, self-care, usual activities, anxiety, and depression. There was a suggestion that pain and discomfort might have been experienced less within the capecitabine maintenance arm (P = .11, Fig 6). This may be due to symptoms associated with increased rates of progression in the AM arm.

DISCUSSION

Choices on how to proceed with palliative treatment, in the large majority of patients with incurable mCRC, with stable or responding disease after 16 weeks of first-line therapy need careful consideration with the patient at the core. Discussions must be informed by the impact of receiving systemic anticancer therapy over the preceding period. This should include evaluation of the burden of toxicity and QoL, as well as the response to treatment. Pooled data from key phase II and III trials suggest minimal impact on OS from a maintenance or continuation strategy but do show the ability to delay a return to full combination therapy by implementation of a maintenance therapy. Notably, the FOCUS4-N data support the use of an oral only therapy (capecitabine) to extend PFS and delay a return to combination therapy by an average of two months. There is a clear cost to the patient for this improved PFS seen with maintenance capecitabine including worse toxicity in terms of diarrhea, fatigue, nausea, skin rash, and PPE albeit mostly at grade \leq 2, and these factors should be used to further inform decision making. There was no difference in QoL scores between the two arms. It is notable that the swimmer plots (Appendix Fig A1) suggest that about a third of patients experience an extended PFS beyond 16 weeks with maintenance capecitabine, suggesting significant fluoropyrimidine sensitivity, while a third of patients demonstrate relative insensitivity to fluoropyrimidine monotherapy and may indicate a further need to explore

Adams et al

Subgroup	No. of Patients	HR (95% CI)	P fo Interaction
PTL			
Left-sided	162 -	0.38 (0.27 to 0.53)	.13
Right-sided	92	0.56 (0.36 to 0.86)	
Baseline WHO performance s	tatus		
0	157	0.43 (0.31 to 0.61)	.62
1 or 2	97	0.45 (0.29 to 0.69)	
Disease assessment prerando	omization		
Complete or partial response	e 155 -	0.47 (0.33 to 0.66)	.3
Stable disease	99	0.39 (0.25 to 0.60)	
No. of metastatic sites			
Zero or one	87	0.37 (0.23 to 0.60)	.40
Two or more	167 —	0.48 (0.35 to 0.66)	
First-line chemotherapy regin	nen		
FOLFOX	34	0.28 (0.12 to 0.65)	.4
FOLFIRI + Cet/Pan	31	0.37 (0.16 to 0.82)	
FOLFIRI	102	0.44 (0.29 to 0.67)	
CAPOX	44	0.31 (0.16 to 0.62)	
Others	43	- 0.63 (0.33 to 1.19)	
Platelet count			
< 400 × 10 ⁹ /L	98	0.55 (0.36 to 0.84)	.40
\geq 400 × 10 ⁹ /L	8	0.20 (0.02 to 1.97)	
RAS + TP53 double mutation			
Yes	59	0.41 (0.23 to 0.74)	.77
No	141 -	0.44 (0.30 to 0.63)	
FOCUS4 biomarker cohort			
Nonstratified	27	0.50 (0.22 to 1.13)	.3
BRAF mutation	30	0.35 (0.15 to 0.83)	
PIK3CA mutation or PTEN lo	ss 40	0.74 (0.38 to 1.44)	
KRAS/NRAS mutation	103	0.38 (0.24 to 0.60)	
All wild type	54	0.30 (0.16 to 0.54)	
Overall (unadjusted)	254	0.44 (0.33 to 0.57)	
	0.125 1	8	
	Favors Capecitabine	Favors AM	

FIG 4. (A) Forest plot of subgroup analyses for PFS (unadjusted HRs). (B) Forest plot of subgroup analyses for OS (unadjusted HRs). AM, active monitoring; CAPOX, capeciteabine with oxaliplatin; Cet, cetuximab; FOLFIRI, fluorouracil, leucovorin, and irinotecan; FOLFOX, infusional fluorouracil, leucovorin, and oxaliplatin; HR, hazard ratio; OS, overall survival; Pan, panitumumab; PFS, progression-free survival; PTEN, phosphatase and tensin homolog; PTL, primary tumor location. (continued on next page)

predictive biomarkers of efficacy for this strategy. Pre- may gain a significant survival benefit from maintenance planned subgroup analysis suggests that patients with stable disease at the end of 16-week induction period

capecitabine, but this is not corroborated in other studies where the same phenomenon was assessed.⁸

В

Subgroup	No. of Patients	HR (95'	% CI)	P for Interaction
PTL				
Left-sided	162		2 (0.58 to 1.17)	.076
Right-sided	92	1.37	7 (0.83 to 2.24)	
Baseline WHO performance statu	IS			
0	157		1 (0.70 to 1.47)	.86
1 or 2	97		3 (0.65 to 1.63)	
Disease assessment prerandomiz	zation			
Complete or partial response	155	1.42	2 (0.97 to 2.10)	.00
Stable disease	99 -	0.63	3 (0.40 to 0.99)	
No. of metastatic sites				
Zero or one	87	1.20	0 (0.73 to 1.98)	.44
Two or more	167	0.90	0 (0.64 to 1.29)	
First-line chemotherapy regimen				
FOLFOX	34	1.40	0 (0.64 to 3.04)	.7
FOLFIRI + Cet/Pan	31	1.12	2 (0.44 to 2.86)	
FOLFIRI	102	0.84	4 (0.54 to 1.30)	
CAPOX	44 -	0.83	3 (0.40 to 1.72)	
Others	43	1.23	3 (0.60 to 2.53)	
Platelet count				
< 400 × 10 ⁹ /L	98	1.23	3 (0.70 to 2.15)	.5
\geq 400 × 10 ⁹ /L	8 🗲	0.50	0 (0.07 to 3.76)	
RAS + TP53 double mutation				
Yes	59	1.03	3 (0.59 to 1.81)	.90
No	141		2 (0.68 to 1.53)	
FOCUS4 biomarker cohort				
Nonstratified	27 -	0.99	9 (0.39 to 2.53)	.8
BRAF mutation	30	1.28	8 (0.52 to 3.14)	
PIK3CA mutation or PTEN loss	40	1.47	7 (0.71 to 3.06)	
KRAS/NRAS mutation	103	0.94	4 (0.61 to 1.45)	
All wild type	54	0.85	5 (0.42 to 1.71)	
Overall (unadjusted)	254	1.00	0 (0.75 to 1.33)	
	0.125	1 8		
	Favors Capecitabine	Favor	s AM	

FIG 4. (Continued).

Although this trial is underpowered to evaluate OS, it (P = .66) when adjusted for minimization factors. It is

demonstrates very similar median values of 14.8 versus informative to compare these data with those of CAIRO3, 15.2 months between the two arms with an HR of 0.93 which compared an AM strategy with capecitabine plus



FIG 5. Cumulative reported toxicity by randomized group: (A) active monitoring (n = 127) and (B) capecitabine (n = 127). G, grade; PPE, palmarplantar erythema.

bevacizumab maintenance with comparable effects on PFS (HR = 0.40, P < .0001; cfFOCUS4-N adjusted HR = 0.40, P < .0001) and nonsignificant OS effect (HR = 0.83, P = .06).⁴ Cross-trial comparisons carry notable caveats and must be undertaken with caution as CAIRO3 included patients with better prognosis than FO-CUS4-N and both their median PFS and cycle number on maintenance therapy were approximately double those of ours. However, it does suggest that the main driver of PFS improvement when using capecitabine plus bevacizumab is the capecitabine. Individual patient data meta-analysis has also shown no OS benefit from current maintenance therapy strategies.⁸

On the basis of a subgroup analysis from the much larger phase III COIN study,¹ which demonstrated a survival detriment in patients with a baseline thrombocytosis receiving a complete treatment break (HR = 1.55; P = .0018), we elected not to recruit patients with baseline thrombocytosis to the FOCUS4 trial program from January 2014 to June 2017. Wishing to validate or refute this finding, we undertook an individual patient data metaanalysis to assess thrombocytosis as a predictive marker of the benefits or otherwise of an intermittent or continuous therapy strategy.⁸ This evaluation did not validate our COIN finding on thrombocytosis, and thus, trial eligibility was adapted to allow these patients to enroll. Within FOCUS4-N overall, 3% (n = 8) of patients had baseline thrombocytosis, and thus, our study is underpowered to explore this predictive phenomenon further. Because of our conservative approach, FOCUS4-N under-represents approximately 25% of patients with mCRC who typically have thrombocytosis at baseline, a known worse prognosis group. However, given our findings in the individual patient data meta-analysis, we do not feel that this

undermines our more general conclusions, which are independent of baseline platelet count.

Owing to funding restrictions in the UK National Health Service, bevacizumab is not routinely available for patients with mCRC, and in patients with RAS wild-type tumors, epidermal growth factor receptor monoclonal antibodies are only available in the first-line setting, with restrictions in England preventing treatment interruption of cetuximab/ panitumumab for longer than 6 weeks. Additionally, during the FOCUS4-D trial recruitment period, ¹⁰ patients with RAS wild-type and BRAF wild-type tumors were eligible for random assignment and were preferentially recruited into that trial. These factors make for a selective group of patients recruited to FOCUS4-N during that time. From a molecular perspective, 59% of patients randomly assigned in the FOCUS4-N trial had an RAS mutation and 15% a BRAF mutation. Reassuringly, the Forest plots (Figs 4A and 4B) do not show any significant differences in PFS or OS on the basis of these molecular criteria.

In conclusion, despite strong evidence of disease control with maintenance therapy, OS remains unaffected and FOCUS4-N provides additional evidence to support the use of treatment breaks as safe management alternatives for patients entering treatment de-escalation after 16 weeks of induction therapy for mCRC. If maintenance therapy is selected following consideration of the advantages and disadvantages in consultation with a particular patient, capecitabine without bevacizumab may be used to extend PFS, in the interval after doublet or triplet therapy, essentially doubling the period before recommencing fulldose induction therapy. Notably, these data also provide tools to best inform the dialogue between patients and clinicians on the pros and cons of the different approaches and their trade-offs.



FIG 6. Quality of life measured by EQ-5D by randomized group: (A) mobility: X^2 for AUC difference = 0.86(1), P = .35; (B) self-care: X^2 for AUC difference = 1.64(1), P = .20; (C) usual activities: X^2 for AUC difference = 0.06(1), P = .81; (D) pain and discomfort: X^2 for AUC difference = 2.49(1), P = .11; and (E) anxiety and depression: X^2 for AUC difference = 1.03(1), P = .31; AUC, area under the curve.

AFFILIATIONS

¹Centre for Trials Research Cardiff University and Velindre NHS Trust, Cardiff, United Kingdom

²MRC Clinical Trials Unit at UCL, London, United Kingdom

³University of Glasgow and Beatson West of Scotland Cancer Centre, Glasgow, United Kingdom

⁴Leeds Institute of Medical Research, University of Leeds, Leeds, United Kingdom

⁵Bristol Genetics Laboratory, Bristol, United Kingdom

⁶Western General Hospital, Edinburgh, United Kingdom

⁷Bristol Cancer Institute, Bristol, United Kingdom

⁸Hammersmith Hospital London, London, United Kingdom

⁹University College Hospital London, London, United Kingdom

- ¹⁰University of Birmingham, Birmingham, United Kingdom
- ¹¹Aberdeen Royal Infirmary, Aberdeen, United Kingdom

¹²MRC Oxford Institute for Radiation Oncology, Department of Oncology, University of Oxford, Oxford, United Kingdom

CORRESPONDING AUTHOR

Louise C. Brown, PhD, University College London, MRC Clinical Trials Unit, 90 High Holborn, London WC1V 6LJ, United Kingdom; e-mail: l.brown@ucl.ac.uk.

EQUAL CONTRIBUTION

R.A.A. and D.F. are joint first authors. L.C.B. and T.S.M. are joint last authors.

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CLINICAL TRIAL INFORMATION

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AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST

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Individual deidentified participant data (including data dictionaries) can be shared upon appropriate application to the MRC CTU at any time from

full publication. Study protocols and statistical analysis plan have been provided in the Data Supplement with this manuscript. Going forward, it is proposed that data will be shared with an appropriate international collaborative repository to enable future IPD meta-analysis.

AUTHOR CONTRIBUTIONS

DATA SHARING STATEMENT

Conception and design: Richard A. Adams, David J. Fisher, Janet Graham, Matthew Seymour, Richard Kaplan, Mahesh Parmar, Philip Quirke, Harpreet Wasan, Kai-Keen Shiu, Leslie Samuel, Richard H. Wilson, Louise C. Brown, Timothy S. Maughan Financial support: Janet Graham. Philip Quirke Administrative support: Janet Graham, Richard Kaplan, Harpreet Wasan Provision of study materials or patients: Janet Graham, Matthew Seymour, Susan D. Richman, Philip Quirke, Fiona Collinson, Harpreet Wasan, Leslie Samuel, Richard H, Wilson Collection and assembly of data: Richard A. Adams, David J. Fisher, Janet Graham, Jenny F. Seligmann, Matthew Seymour, Richard Kaplan, Emma Yates, Susan D. Richman, Rachel Butler, Stephen Falk, Kai-Keen Shiu, Gary Middleton, Leslie Samuel, Richard H. Wilson, Louise C. Brown, Timothy S. Maughan Data analysis and interpretation: Richard A. Adams, David J. Fisher, Janet

Graham, Jenny F. Seligmann, Matthew Seymour, Richard Kaplan, Mahesh Parmar, Philip Quirke, Ewan Brown, Fiona Collinson, Stephen Falk, Harpreet Wasan, Leslie Samuel, Richard H. Wilson, Louise C. Brown, Timothy S. Maughan

Manuscript writing: All authors

Final approval of manuscript: All authors Accountable for all aspects of the work: All authors

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The FOCUS4 Trial Investigators full list can be found in Appendix 1.

AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST

Capecitabine Versus Active Monitoring in Stable or Responding Metastatic Colorectal Cancer After 16 Weeks of First-Line Therapy: Results of the Randomized FOCUS4-N Trial

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Richard A. Adams

Honoraria: Merck Serono, Servier, Amgen Consulting or Advisory Role: Merck Serono, Amgen, Servier, Bayer Speakers' Bureau: Merck Serono Research Funding: Merck Sharp & Dohme Travel, Accommodations, Expenses: Servier, Amgen, Merck Serono, AstraZeneca

Janet Graham

Honoraria: Merck Serono, Bristol Myers Squibb, Nucana, Bayer Consulting or Advisory Role: Merck KGaA Travel, Accommodations, Expenses: Nucana

Jenny F. Seligmann

Honoraria: Pierre Fabre, Merck Serono, Servier Consulting or Advisory Role: Pierre Fabre, Roche Molecular Diagnostics Travel, Accommodations, Expenses: Bristol Myers Squibb/Medarex

Matthew Seymour Research Funding: Amgen, AstraZeneca

Richard Kaplan Research Funding: AstraZeneca

Mahesh Parmar Research Funding: AstraZeneca, Astellas Pharma, Janssen, Clovis Oncology

Philip Quirke

Honoraria: Roche Consulting or Advisory Role: Roche, Adlai Nortye, Avacta Life Sciences, Amgen, Baver

Research Funding: Roche, GeneFirst, ONI Patents, Royalties, Other Intellectual Property: Roche have filed a patent jointly with my University

Travel, Accommodations, Expenses: Roche, Bayer, Amgen

Rachel Butler

Speakers' Bureau: Bayer, Pfizer, Roche, AstraZeneca, MSD, Illumina, Lilly, Novartis, Amgen, Boehringer Ingelheim

Ewan Brown Research Funding: MSD Oncology

Fiona Collinson

Research Funding: Bristol Myers Squibb

Stephen Falk

Stock and Other Ownership Interests: GlaxoSmithKline Speakers' Bureau: Merck Serono, Servier, Amgen Research Funding: Gilead Sciences Travel, Accommodations, Expenses: Celgene Other Relationship: Servier

Harpreet Wasan

Honoraria: Merck KGaA, Celgene, Sirtex Medical, Servier, Array BioPharma, Roche/Genentech, ERYTECH Pharma, Incyte, Zymeworks Consulting or Advisory Role: Roche Pharma AG, ERYTECH Pharma, Shire, Incyte, Sirtex Medical, Pierre Fabre, Pfizer, Bayer Speakers' Bureau: Sirtex Medical, Celgene, Merck KGaA, Servier, Incyte Research Funding: Sirtex Medical, Merck KGaA, Pfizer, Merck Sharp & Dohme

Kai-Keen Shiu

Honoraria: Merck Serono, MSD Oncology, Innovent Biologics, Servier, Daiichi Sankyo Europe GmbH Consulting or Advisory Role: MSD Oncology, Roche, Mirati Therapeutics Research Funding: MSD Oncology, Roche

Gary Middleton

Consulting or Advisory Role: BMS, D2G, MSD Speakers' Bureau: Roche, BMS, Servier, PierreFabre, AZ Travel, Accommodations, Expenses: BMS

Leslie Samuel Honoraria: Servier Consulting or Advisory Role: Merck Research Funding: Merck, Array BioPharma, Tesaro, Servier, Hutchison MediPharma

Richard H. Wilson

Honoraria: Servier, Amgen, Bristol Myers Squibb Consulting or Advisory Role: Amgen, CV6 Therapeutics, Pierre Fabre, Amphista Therapeutics, Nucana Travel, Accommodations, Expenses: Amgen, Pierre Fabre

Louise C. Brown Research Funding: AstraZeneca

Timothy S. Maughan Consulting or Advisory Role: AstraZeneca, Vertex, Pierre Fabre Research Funding: AstraZeneca, PsiOxus Therapeutics, Merck KgAA, Almac Diagnostics

No other potential conflicts of interest were reported.

APPENDIX 1. FULL AUTHORSHIP LIST FOR THE FOCUS4 TRIAL INVESTIGATORS

Writing Committee for FOCUS4-N Trial

Adams R., Fisher D.J., Graham J., Seligmann J.F., Seymour M., Kaplan R., Yates E., Parmar M., Richman S.D., Quirke P., Butler R., Brown E., Collinson F., Falk S., Wasan H., Shiu K., Middleton G., Samuel L., Wilson R.H., Brown L.C., Maughan T.S.

Trial Management Group

Maughan T.S. (Chair), Wilson R., Adams R., Seymour M., Seligmann J.F., Graham J., Wasan H., Pope M., Pope J., Samuel L., Shiu K., Church D., Middleton G., Steward W., Twelves C., Wellman S., Hodgkinson E., Stoner N., Beety J., Duggleby K., Dutton G., MRC CTU team (below), laboratory staff (see below).

MRC CTU trial coordinating centre

Brown L.C., Kaplan R., Parmar M., Fisher D.J., Campos M., Yates E., Santana S., Fiddament A., Harper L., Bara A., Pugh C., Bathia R., Letchemanan K., Przybył B., Bhogal S., Gopalakrishnan G., Purvis C., Diaz-Montana C., Mohamed F., Townsend S., Cragg W., Masters L., Van Looy N., Rauchenberger M.

Laboratories

Quirke P., Richman S.D., Hemmings G., Davis J., Gallop N., Wilkinson L., Butler R., Roberts H., Jasani B., White R., Dodds R., James M., Morgan M.

Independent Data Monitoring Committee

Cameron D. (Chair), Souhami R., Peeters M., Billingham C., Griffiths G., Brown J.

Trial Steering Committee

Johnson P. (Chair), Rudd R., Whelan J., Russell A.

Participating Hospitals in Descending Order of the Number of Patients Registered With All Staff Listed (N = 2,076)

Hospital	First Name	Surname (principal investigator [PI])
Western General Hospital	Ewan	Brown (PI)
	Morven	Atkinson
	Caroline	Bruce
	Patricia	Campbell
	Sally	Clive
	Kathryn	Connolly
	Lorraine	Cook
	Helen	Creedon
	Judith	Crawford
	Alisa	Davinson
	Lesley	Dawson
	Grace	Ding (Tze-en Ding)
	Martin	Doak
	Tamasin	Doig
(cc	ontinued in next co	lumn)

	-	Surname (principal
Hospital	First Name	investigator [PI])
	Clare	Dunbar
	Ben	Elliott
	Lynne	Faragher
	Paul	Fineron
	Nikki	Gilluley
	Ewa	Kondarewicz
	Jenifer	Lauchlan
	Jim	Macpherson
	Catriona	Mclean
	Hazel	Milligan
	Suzanne	Muir
	Alisa	Oswald
	Ashley	Pheely
	Hamish	Phillips
	Kelly	Rust
	Shaafia	Siddiqui
	Barbara	Stanley
	Moira	Stewart
	Vivienne	Wilson
St James's University Hospital (Leeds)	Fiona	Collinson (PI)
	Matt	Seymour (PI)
	Humaira	Abbas
	lfeoluwa	Ajibayo
	Alan	Anthoney
	Hana	Ali
	Orrie	Appell
	Andrew	Barker

		100000
	Ifeoluwa	Ajibayo
	Alan	Anthoney
	Hana	Ali
	Orrie	Appell
	Andrew	Barker
	Vincent	Barlow
	Shanaz	Begum
	Maxine	Berry
	Judith	Chapman
	Sam	Charlton
	Pam	Clark
	Emily Rose	Crawford
	Anne	Crossley
	Gemma	Dart
	Jessica	Docherty
	Irina	Ershova
	Alexandra	Firth
	Jeanifer	Gachev
	Leanne	Galloway-Browne
(cc	ontinued on followir	ng page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Jillian	Hanson		Julie	Graham
	Amelie	Harle		Jill	Halpin
	Farzana	Haque		Robert	Henley
	Janine	Heeley		Lynda	Holman
	Jane	Hook		Alys	Irving
	Jane	Hughes		Amanda	Jackson
	Alison	Judge		Emma	John
	Emma	Livesey		Rhianydd	Jones
	Emma	Lundy		Colette	Kemp
	Michael	O'Brian		Satish	Kumar
	Mike	Osborne		Claire	Lang
	Lauren	Paul		Cindy	Langford
	Mary	Perrin		Debbie	O'Connor
	Annet	Pillai		Diana	Osman
	Charlotte	Richardson		Catherine	Matthews
	Suzanne	Rogerson		Ross	McLeish
	Olorunda	Rotimi		James	Morgan
	Emily	Rudolph		Phillip	Morgan
	Jenny	Seligmann		Renata	Poole
	Hannah	Shanks		Karen	Pow
	Daniel	Swinson		Joanne	Preece
	Danny	Ulahannan		Cathy	Richards
	Mariah	Vorajee		Jayne	Richards
	Sarah	Wetherop		Rosie	Roberts
	Hannah	Wigginton		Sharon	Rogers
	Christopher	Williams		Jodie	Sherburn
	Jawairiya	Zubair		Lisa	Stafford
Velindre Hospital	Rob	Jones (PI)		Catherine	Sullivan
	Richard	Adams (PI)		Hana	Thomas
	Seema	Arif		Anshu	Wadhawan
	Rebecca	Bethell		Catherine	Watkins
	Kathy	Bishop		Hilary	Williams
	Alison	Brewster		Rachel	Williams
	Michael	Brown		Kay	Wilson
	Julie	Broughton		Rebecca	Wilson
	Lucy	Chestney		Cheryl	Worsey
	Nikki	Coates		Charlotte	Young
	Sonali	Dasgupta	Christie Hospital	Michael	Braun (PI)
	Karen	Davies		Jo	Allen
	Clare	Donnithorne		Hannah	Arhinful
	Beverley	Eley		Janet	Beech
	Maria	Evans		Martin	Birch
(0	continued in next co	lumn)		ontinued on followin	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Anna	Bowron		Alice	Dewdney
	Suzanne	Carter		Julia	Disney
	Jackie	Connell		Lynne	Dixon
	Camille	Cooney		Paul	Dodd
	Rebecca	Cox		Sarah	Gill
	Olive	Craven		Elizabeth	Hodgkinson
	Mark	Cutting		Helen	Joyce
	Hannah	Downs		Mandip	Khaira
	Karen	Forshaw		Panagiota	Kitsanta
	Chloe	Gawlik		Jasima	Latif
	Jurjees	Hasan		Laura	Lee
	Sarah	Hughes		Cathryn	Leng
	Paul	Husbands		Tony	Matthew
	Mary	Jepson		Eileen	Marsh
	Konstantinos-	Kamposioras		Aimee	Pendlebury-Worrad
	Vellios			Megan	Perry
	Rhea	Langeveld		Simon	Pledge
	Catherine	McBain		Muneeb	Qureshi
	Danielle	McCool		Alison	Redfearn
	Saifee	Mullamitha		Helen	Shulver
	Monica	Narasimham		Helen	Slater
	Alkesh	Patel		Laura	Smith
	Jane	Rogan		Svetlana	Solovieva
	Mark	Saunders		Catherine	Spalton
	Sue	Seifi		Elisavet	Theodoulou
	Lilly	Simpson		Lucy	Walkington
	Greg	Wilson		Christopher	Walls
	Marie	Woolley		Mary	Ward
Weston Park Hospital	Joanne	Hornbuckle (PI)		Katherine	Williams
	Jess	Aldred		Vanessa	Wilshaw
	Cyper	Allan		Robin	Young
	Richard	Allen	Bristol Haematology	Stephen	Falk (PI)
	Lynne	Ashmore	and Oncology Centre		
	Darrell	Barrott		Elizabeth	Allison
	Alex	Bradshaw		Paul	Armenise
	Richard	Brown		Lindsay	Ball
	Sarah	Brown		Helen	Brooks
	Kevin	Chan		Paula	Byrne
	Rachael	Clarke		Carlota	Clemente
	Su	Clark		Marc	Coe
	Susan	Clenton		Kiril	Delchev
	Richard	Crossley		Kay	Drury
(co	ntinued in next co	lumn)	(conti	nued on following	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Emily	Foulstone		Jane	Crozier
	Elysia	Gower		Samantha	Curtis
	John	Helbrow		Michael	Daly
	Jon	Heywood		Claire	Dyke
	Robert	Hollister		Rachael	Exley
	Kirsten	Hopkins		Ioana	Fodor
	Hollie	Jones		Yuko	Francis
	Lauren	Joyce		Sharath	Gangadhara
	Helen	Kingston		Amy	Gaunt
	Jayne	Leonard		Jenny	Gilbert
	Amelia	Lowe		Beatrice	Hamilton
	Catherine	McDonald		Leonie	Harrison
	Helen	Monnington		Carly	Laxon-Takooree
	Katarina	Milutinovic		Jill	MacDonald-Burn
	Jessica	Nuttall		Katarzyna	Machura
	Yasmin	Odding		Margaret	Macmillan
	Ronak	Patel		Carey	Milsom
	lan	Penwarden		Kate	Moloney
	Peter	Robertson		Sarah	Murdoch
	Tim	Robinson		Joseph	Needham
	Sharon	Short		Abigail	Pocock
	Thomas	Strawson-Smith		Vicki	Portingale
	Kirsty	Stevenson		Bryony	Robertson
	Hannah	Taylor		Annie	Taylor
	Sandra	Williams (nee Price)		Eve	Tomlinson
	Eve	Watson		Tom	Tylee
	Axel	Walther		Rebecca	Wassall
	Angela	Webb		Samantha	Williams
	Tom	Wilson		Jess	White
	Roland	Wynn-Williams	Castle Hill Hospital	Rajarshi	Roy (PI)
Royal United Hospital	Emma	De Winton (PI)		Abigail	Alford
	Louise	Medley (PI)		Katie	Broadbent
	Tania	Allen		Amandeep	Dhadda
	Rowan	Appleby		Ceri	Fuller
	Claire	Barron		Laura	Hart
	Leigh	Biddlestone		Lyn	Harrison
	Hannah	Blades		Joanne	Hinchcliffe
	Ruth	Brydon-Hill		Linda	Hoggarth
	Shaolin	Chidavaenzi		Rhian	Horne
	Ashley	Cox		Dawn	Jones
	Christine	Cox		Louise	Karsera
	Claire	Craige		Magdalena	Kolodzieg
(col	ntinued in next co	lumn)	(cor	ntinued on following	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Daniel	Lee		David	Barber
	Lisa	Nix		Stephanie	Cornthwaite
	Paula	O'Reilly		William	Croxford
	Kristian	Plowman		Parth	Desai
	Karen	Shepherd		Kay	Ellel
	Karen	Stubbs		Cassandra	Gleeson
	Gabrielle	Taft		Louise	Hough
	Reenee	Tiam		Krishna	Panchal
	Adam	Wolstencroft		Shakeelah	Patel
Victoria Hospital (Blackpool)	Sin	Lau (PI)		Mark	Pitt
	Charlotte	Armer		Saran	Prestori
	Denise	Bennett		Andrew	матупак
	Caroline	Boardman		Aasir	
	Oliver	Brennan		Deboran	Williamson
	Laura	Collins		Claire	Searle
	Falalu	Danwata		Shabbir	Susnerwala
	Alexander Paul	Davies		Dorothy	Walmsley
	Fmma	Davies		Sait	Yousit
	Leanne	Davies	Musgrove Park Hospital	Gihan	Ratnayake (PI)
	Stacev	Donaldson		Clare	Barlow (PI)
	Hannah	Ferguson		Jan	Ashcroft
	Amanda	Finch		Hilary	Barlow
	lulie	Frudd		Nita	Beacham
	Karen	Gratrix		Erica	Beaumont
	lames	Haston		Hannah	Berry
	Sue	Hesketh		Becky	Brown
	Sue			Clair	Brunner
	Chris	Pemberton		Richard	Burgess
	Karen	Pollard		Alison	Chedham
	Andrew	Potter		Hayley	Cornall
	Jonathan	1 Otter		Nicola	Cutmore
	Toni	Purcer		Flora	Darch
	Ella	Riedel		Natasha	Eveleigh
	Nicola	Slawson		John	Geraghty
	Shabbir	Susnerwala		Fiona	Goodchild
	Lauren	Thornborough		Emma	Gray
	Conor	Wilkinson		Clair	Hinton
	Mark	Wrigley		Lucy	Howell-Drewett
Royal Preston Hospital	Sin	Lau (PI)		Joan	Kemp
· ·	Amanda	Alty		Catherine	Lane
	Philippa	Antrobus		Fen	Lewen
	Katherine	Ashton		Dee	Lewis
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DavidPinatoTasnimEbrahimjeeKeiraPudgeRachelGabitassRamyaRamaswamiEthelwoldaGoyenaAzeemSaleemAndreaHillyerAmaliaSaucanJaneHosea		Emily	Pickford	·	Caroline	Duncombe
KeiraPudgeRachelGabitassRamyaRamaswamiEthelwoldaGoyenaAzeemSaleemAndreaHillyerAmaliaSaucanJaneHosea		David	Pinato	<u>.</u>	Tasnim	Ebrahimjee
RamyaRamaswamiEthelwoldaGoyenaAzeemSaleemAndreaHillyerAmaliaSaucanJaneHosea		Keira	Pudge		Rachel	Gabitass
AzeemSaleemAndreaHillyerAmaliaSaucanJaneHosea		Ramya	Ramaswami	·	Ethelwolda	Goyena
Amalia Saucan Jane Hosea		Azeem	Saleem		Andrea	Hillver
		Amalia	Saucan	·	Jane	Hosea
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Participating Hospitals in Descending Order of the Number of Patients Participating Hospitals in Descending Order of the Number of Patients Registered With All Staff Listed (N = 2,076) (continued)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Mohammad	Hussain		Andrew M	Jackson
	Kashif	Jarral		Annette	Jones
	Andrea	Jones		Konstantinos-	Kamposioras
	Andrea	Kempa		Vellios	
	Adnan	Masood		Patricia	Kane
	Craig	Macmillan		Tracey	Lowry
	James	Maloy		Stephanie	Lupton
	Katherine	McGrath		Joanna	Lyle
	Jan	Miles		Kate	Norton
	Onyinye	Ndefo		Ganesh	Radhakrishna
	Paula	O'Connell		Vishal	Ramdhani
	Malgorzata	Polnik		Muhammad Bilal	Razzaq
	Ehsan	Rahman		Ayesha	Sheikh
	Shahriar	Reza		Hira	Yousif
	Mohammed		Beatson West of	Janet	Graham (PI)
	Sharon	Ryan	Scotland Cancer		
	Simon	Stapley		Tareq	Abdullah
	Elizabeth	Тее		Ghada	Al-Salih
	Lenka	Zvirinska		Martin	Ball
Pinderfields Hospital	Iva	Damyanova (PI)		Karon	Ball
	Ashraf	Alkhaldi (PI)		Anette	Charlick
	Gireesh	Kumaran (PI)		Maureen	Connolly
	Usman	Ahmad		lill	Demoster
	Aneeka	Altaf		Alan	Foulis
	Shubnum			Paula	Honny Stophonson
	Julie	Ball		Faula	Graham
	Louise	Benton			Hickory
	Kevin	Birbeck		Lesiey	HICKEY
	Lynsey	Bourner		Saliura	
	Richard	Bowers			
	Hollie	Brooke		Jennier	Keith
	Ellis	Burton		Donna	Kelly
	Julie	Burton		Audrey	Leonard
	Deborah	Cooper		Gail	Lynch
	Elizabeth	Clayton		Alex	McDonald
	Jane	Eastwood		Jordan	McGill
	Aimee	Fletcher		Anne	McKillop
	Rebecca	Foster		Austin	McInnes
	Darren	Gomersall		Fiona	McQueen
	Hassan	Hameed		Nazia	Mohammed
	Aimee	Hayton-Bott		Paul	Mooney
	Charlotte	Hirst		Maria	Nygren
	Claire	Hutsby		Shilpa	Thapar
(cc	ntinued in next co	lumn)	(cor	ntinued on following	page)

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Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Kirsty	Ross		Abimbola	Barango
	Patricia	Roxburgh		Balazs	Binnyei
	Pavlina	Spiliopoulou		Gillian	Brand
	Eileen	Soulis		Kay	Campbell
	Kirsteen	Stuart		Angie	Cheyne
	Rasheed	Syed		Michael	Christie
	Ashita	Waterston		Kathryn	Connolly
	Cheryl	Wilson		Pat	Cooper
Ysbyty Gwynedd	Catherine	Bale (PI)		Amber	Johnson
	Kelly	Andrews		Susan	Martin
	Naomi	Boyle		Celia	Meneses
	Claire	Fuller		Graeme	Murray
	John	Grant		Nicola	Price
	Emma	Hall		Sue	Rodwell
	Anna	Mullard		Mhairi	Scott
	Wendy	Saxton		Margaret	Smith
	Nick	Stuart		Bartosz	Was
	Alice	Thomas		Mehmood	Zaidi
	Linzi	Williams		Ishtiaq	Zubairi
With the Conorol	Rachel	Williams	Cheltenham General Hospital	Kim	Benstead (PI)
Hospital	Salali	Gwyffile (Ff)		Jaqueline	Aberdeen
	Maung	Moe (PI)		Rehana	Bakawala
	Fawwaz	Arikat		Sarah	Beazer
	Denisa	Asandei		Colin	Binks
	Sandra	Evans		Lucy	Blake
	Eirianydd	Garrard		Bethan	Cartwright
	Sophie	Glynn-Williams		Samuel	Croly
	Colette	Griffiths		Lin	Crossley
	Rachel	Hughes		Rachel	Durrant
	Catherine	MacPhee		David	Farrugia
	John	Murphy		Janet	Forkes
	Kirsty	Роре		Emma	Gilbert
	Rocio	Riba		Fabrizio	Mauri
	Sally-Ann	Rolls		Elaine	Pratten
	Abigail	Taylor		Elisabeth	Read
	Carol	Thomas		Nick	Reed
	Helen	Thomas		Rachel	Sayers
	Vallipuram	Vigneswaran		Neil	Shepherd
Aberdeen Royal	Leslie	Samuel (PI)		Stephen	Shepherd
Infirmary				Jennifer	Smith
	Fay	Annison		Sarah	Stanley
	Sharon	Armstrong	(con	tinued on following	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Catherine	Stuart-Grumbar		Shirley	Todd
	Bilal	Торіа		Jane	Thompson
	Kate	Trigg-Hogarth		Fiona	Walters (nee Hall)
Clatterbridge Centre for	Nasim	Ali (PI)		Claire	Webb
Oncology				Julia	Weston
	Wesley	Artist	Southampton General	Tim	lveson (PI)
	Shaker	Abdallah	Hospital		
	Alexandra	Bailey		Liane	Armstrong
	Danielle	Campbell		Andrew	Bateman
	Maggie	Cantrell		Adrian	Bateman
	Joanne	Cliff (nee Mooney)		Emma	Brown
	Thomas	Davies		Holly	Burton
	Helen	Flint		Tracey	Callen
	Amy	Ford		Bethany	Caruana
	Barbara	King		Caroline	Chau
	Ayman	Madi		Tracey	Day
	Samah	Massalha		Efe	Evbuomwan
	Laura	McAllister		Meg	Gale
	Amir	Montazeri		Julie	Gwilt
	Joanne	Mullen		Sara	Hosseini-Moein
	Julie	O'Hagan		Alice	Johnson
	Anna	Olsson-Brown		Leah	Long
	Katharine	Pelton		Steve	McKenzie
	Kelly	Richardson		Charlotte	Rees
	Sandra	Robinson		Rasha	Said
	Joseph	Sacco	University College	John	Bridgewater (PI)
	Sarah	Stuart	Hospital		
	Hollie	Wilson		Adrienne	Abioye
	Pembe	Yesildag		Mahfuja	Ahmed
	Mariah	Zavery		Shamima	Akther
Royal Devon and Exeter	Melanie	Osborne (PI)		Maise	Al Bakir
Hospital				Adelaide	Austin
	Kizzy	Baines		Holly	Baker
	Tamika	Chapter		Jaytee	Barnett
	Elizabeth	Davey		Nina	Bason
	Susan	Downer		Isabelle	Brown
	Dawn	Edwards		Alexa	Childs
	Theresa	Lawless		Louise	Coyle
	James	Leavy		Patricia	Danaswamy
	Mark	Napier		Kanishka	Dissansayke
	Emma	Robjohns		Rosina	Donovan
	Patrick	Sarsfield		Lola	Enemuwe
	Ingrid	Seath		Victor	Eneh
(con	tinued in next co	lumn)	(cont	inued on following	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Gabrielle	Gould		Katie	Douglas
	Todd	Gumbleton		Grainne	Dunn
	Selina	Gurung		Mohammed	El-Abdullah
	Gemma	Hector		Lynn	Glass
	Sonya	Hessey		Kirsteen	Hamill
	Daniel	Hochhauser		Susan	Hastings
	Sabrina	Holohan		Rebecca	Heron
	Michelle	Hung		Chloe	MacDonald
	Georgios	Imseeh		Steven	Marshall
	Adoracion	Jayme		Laura	Miller
	Sarah	Kerr		Geradline	O'Dowd
	Khurum	Khan		Aqilah	Othman
	Jennifer	Laude		Diana	Park
	Xiao	Lu		Angela	Scullion
	Gina	Margai	-	Denise	Vigni
	Katie	Matthews	-	Kai	Yahya
	Eman	Mohamad	Charing Cross Hospital	Harpreet	Wasan (PI)
	Fatima	Mohamed		Thalia	Afxentiou
	Sam	Morris		Riz	Ahmed
	Anna	Nikopoulou		Melloney	Allnutt
	Mayur	Patel		Gareth	Barker
	Maria	Power		Abigail	Caldow
	Prakash	Rao		Jolene	Carioni
	Manuel	Rodriguez-Justo		Sarah	Chilcott-Burns
	Derya	Sahin		Andrea	Davis-Cook
	Kai Keen	Shiu		Yomi	Fatola
	Luke Owen	Steventon		Chee	Goh
	Mark	Sunga		Dorothy	Gujral
	Hinesh	Tailor		Gillian	Hornzee
	Anisa	Tariq		Eleni	Josephides
	Varji	Thayalan		Charlotte	Kelly
	Jennifer	Thomas		Daleep	Kumar
	Christopher	Wanstall		Priya	Limbu
	Kristian	Warnes		Luzviminda	Llemit Ramos
	Christopher	Whitton		Charles	Lowdell
	Georgina	Wood		Sophia	Magwaro
Monklands Hospital	Lisa	Rogers (PI)		Rochelle	McIntyre
	Anne	McKillop (PI)		Philippa	Nutkins
	Ashita	Waterston (PI)		Shola	Ogegbo
	Paula	Botham		Anna	Osei-Kofi
	June	Carr		Susan	Ramsey
	Louise	Devlin		Pippa	Riddle
(cc	ontinued in next co	lumn)	(conti	inued on following	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Amalia	Saucan		Anthony	Wilson
	Helen	Saxby		Rebecca	Wiltshire
	Chantelle	Simpson		Martha	Woodward
	Aspa	Spyrou		Kirsten	Wynn
	Kirsty	Tunna	Leicester Royal	Anne	Thomas (PI)
	Iman	Yahya	Infirmary		
	Adrian	Zebrowski		Will	Steward (PI)
Churchill Hospital, Oxford	Tim	Maughan (PI)		Elizabeth	Andrzejewski Alexander
	David	Badcock		Sarah	Attridge
	Magdalena	Benvsek		lulie	Barlow
	Rosita	Broderick		Theresa	Beaver
	Anne	Butterfield		Amy	Branson
	Fyelyn	Chan		Meera	Chauhan
	Philip	Charlton		Aurora	Del Pozo
	David	Church		Hadia	Напие
	Richard	Cousins		Hannah	Holdsworth
		Cowen		Rahima	Ibrahim
	loanne	Davies		Chinenve	lwuii
	Steven	Davis		Mohammed	Karolia
	Alfonso	Gonzalez Blas		Lydianne	Lock
	Will	Goodman		Mohammed	Mahgoub
	Nikki	Havward		Adrian	Nicholson
	Clare	lacobs		Ahmed	Osman
	Patrycia	lastrzebska		Katherine	Perkins
	Evanthia	Kompinidou		Sarah	Porter
	Ionathan	lau		Thiaghraion	Sridbar
	Carolina	Leniato		ludith	Underwood
	Claro	Markon		Balaii	Varadhan
	Korrio	Marcton			Walker
	Mark	Middleton		Julia	Wast
		Murphy		loanna	Wood
	Robocca	Muirboad	Paigmore Hespital	Walter	Mmoka (PI)
	Adrian	Nicholson	Raiginore nospital	Anglico	
	Rohin	Reach Toon		Soonaid	Arnott
	Novin	Pel		Keren	Callum
	Solly	PUI		Daniaa	Callulli
	Sally	Stoper		Fiere	Campbell
	INICOIA	Storier		Гюпа	Kally
	James	wakelin		кау	Kelly
		wang		Alison	Macdonald
	Andrew	Weaver		Angela	Macgregor
	Sandie	Wellman		Carol	Macgregor

	_		
Maciver		Gemma	Cook
Maclennan		Amelia	Daniel
Madeleine		Venkatesh	Gajapathy
McIlroy		Evelyn	Holmes
McKenzie		Тауо	Jaiyesimi
McPhail		Joanne	Kellaway
Nicholls		Teresa	Light
Paterson		Lucinda	Melcher
Samuel		Cait	Rees
Simpson		Vasi	Sundaresan
Sinclair	Royal Surrey County	Tony	Dhillon (PI)
Soh	Hospital		
Stenhouse	·	Mazhar	Ajaz
Stewart	·	Nawa	Amin
Taylor		Humyraa	Aziz
Urquhart		Izhar	Bagwan
Clive (PI)		Catherine	Blake
		Fiona	Butler
Adamson		Penny	Champion
Aitken		Karen	Chan
Brush		Sebastian	Cummins
Cain		Tineke	Edmunds
Cargill		Sharadah	Essapen
Cheyne		Andrew	Furness
Cliff		Laura	Gordon
Cree		Di	Grainger
Gray		Helen	Graves
Iwanikiw		Imogen	Heenan
Johnston		Kirsty	Horwood
Matthews		Daniel	Jennings
McCorry		Natasha	Kamboh
Mclean		Aga	Kehinde
Murdoch		Karla	Lee
Nawroz		Sibylle	Lintott
Penman		Gaybrielle	Livingstone
Scott		Cheryl	Marriott
Simpson		Catherine	Medcalf
Subedi		Aruna	Medisetti
Tait		Mahomed	Moosa
Tingley		Gayathri	Nagarajan
Wilson		Sarah	Oakes
Bridgewater (PI)		Sue	Sargent
	Cliff Cree Gray Iwanikiw Johnston Matthews McCorry Mclean Murdoch Nawroz Penman Scott Simpson Subedi Tait Tingley Wilson Bridgewater (PI)	Cliff Cree Gray Iwanikiw Johnston Matthews McCorry Mclean Murdoch Nawroz Penman Scott Simpson Subedi Tait Tingley Wilson Bridgewater (PI) (con	CliftLauraCreeDiGrayHelenIwanikiwImogenJohnstonKirstyMatthewsDanielMcCorryNatashaMcleanAgaMurdochKarlaNawrozSibyllePenmanGaybrielleScottCherylSimpsonCatherineSubediArunaTaitMahomedTingleyGayathriWilsonSarahBridgewater (PI)Sue(continued on followin

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Alexandra	Stewart		Carlos	Gonzalez
	Hasina	Thandar		Matthew	Howlett
	Claire	Thompson		Natalie	Lloyd
	Katharine	Webb		Rita	Ng
	Rosalyne	Westley		Paul	Ridley
	Julia	Whittle		Kirubah	Selvaraj
	Julie	Wilkinson		Liz	Sherwin
	Rebecca	Wills		Bamini	Sivarajah
St Helens Hospital	Zahed	Khan (PI)		Susan	Upson
	Rachel	Cassidy		Angharad	Williams
	Jenny	Cotton		Jason	Wong
	Lisa	Dobson	Royal Hampshire	Luke	Nolan (PI)
	Nicola	Hornby	County Hospital	1	Destula
	Sheila	Kelly		Louise	Beattie
	Amanda	McCairn		Julie	Conti
	Jeanette	Ribton		Duncan	Cooke
	Michelle	Robinson		Victoria	Corner
	Carol	Ross		Adrienn	Fazekasne Fulep
	Victoria	Thomas		Angela	Frith
Chesterfield Royal	Vanessa	Wilshaw (PI)		Julie	Gwilt
Hospital				Samantha	Hammond
	Ibrahim	Al-Modaris		Liz	Happle
	Rebecca	Clark		Lesley	Hollister
	Aurora	Del Pozo		Roger	Hudson
	Alice	Dewdney		Abigail	Hughes
	Nicky	Ford		Lauriane	Kerwood
	Rachel	Gascoyne		Matthew	Pitt
	Neeta	Gogna		Balvinder	Shoker
	Charlotte	Hoult		Rao	Vuyyuru
	Emma	Hudson	Peterborough City Hospital	Catherine	Jephcott (PI)
	Kelly	Pritchard		Terri-Anne	Baker
	Martin	Shepherd		Helen	Bowver
	Lesley	Stevenson		Kerrie	Cavanagh
	Danesh			Rebecca	Chilvers
	Julie	Toms		Marilyna	Chong
	Katie	Wallace		Laura	Costello
	Julie	Whitehead			Hollingdale
	Lucinda	Wilson		Steph	Lawrence
Ipswich Hospital	Gopalakrishnan	Srinivasan (PI)		Heather	Maccoll
	Zoltan	Szucs (PI)		Carla	Martino
	Deborah	Abrams		Claira	Palombo
	Debbie	Austin		Stuart	Richmond
(cor	ntinued in next colu	umn)		Sluarl	RICHHONO

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Richard	Skells		Bojidar	Goranov
	Laura	Simon		Irene	Harvey
	Claire	Snowden		Maggie	Kalita
	Lisa	Wilde		Sarah	Kingdon
	Louise	Wilmer		Mike	Marner
Calderdale Royal	Jo	Dent (PI)		Laura	Marks
Hospital			-	Susan	McFarlane
	Mohammad	Alam		Chelsea	Morton
	Miek	Prown	-	Anna	Mucha
	Nick	Dokor	-	Sarah	Prance
		Daker	-	Olivia	Reed-Poysden
	Sam	Dale	-	Peter	Sankey
	Denise	Напсоск	-	Helen	Smith
	James	Harris	Macclesfield District	Victoria	Lavin (PI)
	Lisa	Horner	General Hospital		
	Jeremy	Hyde		Ganesh	Radhakrishna (PI)
	Rebecca	Jenkins		Catherine	McBain (PI)
	Christopher	Knight	-	Victoria	Adinkra
	Mandy	Madigan		Dane	Bradwell
	Adam	Mawer		Lisa	Brookes
	Belinda	McLean	-	Helen	Burns
	Sabiha	Ravat		Nicola	Dawson
	Hannah	Riley		Catherine	Fenson
	Jodie	Rowan		Lisa	Hardstaff
	Simone Deborah	Ryan		Abbi	Henderson
	Lisa	Shaw	-	Christy	Henderson
	Selina	Shaw		Pippa	Hill
	Kathryn	Smith	-	Debra	Jowle
	Christine	Turner		Mark	Lawrence
	Georgina	Turner		Joanna	Longden
	Hayley	Webster		Nicola	Lunt
	Tracy	Wood		Marilyn	McCurrie
Derriford Hospital	David	Sherriff (PI)		Karen	Rotchell
	Rebecca	Aaron		Barbara	Townley
	Bridget	Aire		Helen	Wassall
	Baffour	Amo-Takyi		Julie	Whitehead
	Erin	Brennan		Leslev	Wilkinson
	Lucy	Cadmore		lain	Woodhouse
	Leonie	Eastlake	Torbay District General	Nangi	Lo (PI)
	Laura	Evenden	Hospital		
	Kay	Facey		Michele	Allison
	Olivia	Fraser		Kenneth	Almedilla
	Julie	Froud		Emmie	Arbury
(c	continued in next colu	imn)	(conti	nued on following	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Lauren	Blunt		Svitlana	lyevkova
	Jo	Blurton		Rashmi	Jadon
	Catherine	Brookman		Catherine	Jephcott
	lan	Buley		Natalie	Jones
	Shelley	Chamberlain		Hannah	Loveday
	Stacey	Davies		Jane	Macdonald
	Angela	Foulds		Betania	Mahler-Araujo
	Meadow	Fisher-Crisp		Debra	Mansergh
	Joanne	Garfield-Smith		Ultan	McDermott
	Petra	Gee		Lindsay	Piper
	Caera	Good		Amy	Strong
	Hannah	Griffin		Catherine	Thorbinson
	Andrew	Harford-Brown		Saji	Victor
	Prithvi	Jampana		Naval	Vyse
	Ingrid	Koehler		Amanda	Walker
	Tyler	Lowe		Emma	Wong
	Sally	Maddison		Zsuzsa	Zaborszky
	Mitchell	McMillan	Guy's Hospital	Paul	Ross (PI)
	Louise	Medley	(London)		
	Lyn	Micklewright		Samantha	Barrett
	Louise	Paatz		Eva	Batovska
	Maeve	Pomeroy		Jessica	Brady
	Helen	Randall		Maribel	Boyce
	Fleur	Rogers		Laura	Camburn
	Lorraine	Thornton		Lorna	Caplis
	Christine	Tsang		Noan Minh	Chall
	Elaine	Vandecandalaere		Jason	Chow
	Sarah	Wright		Chi Yee	Chung
Addenbrooke's	Hugo	Ford (PI)		Sophie	Clark
Hospital				Sarah	Cleary
	Athar	Ahmad		Victoria	Donovan
	Alexandra	Azevedo		Sandra	Esteban Moreno
	Lesley	Bennett		Adrienn	Fazekasne Fulep
	Elizabeth	Blake		Lucy	Featherstone
	Mark	Bolton		Michael	Flanagan
	Rebecca	Bradley		Laura	Green
	Jane	Bushen		Sara	Hulf
	Joanna	Calder		Arun	Karnad
	Anita	Chhabra		Sara	Kazemzadeh
	Kathy	Chin		Vevangaune	Ketjiperue
	Sarah	Clark		Choi Chin	Lau
	Joseph	Gallagher		Nick	Maisey
	(continued in next co	lumn)	(continued on following	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Simranjit	Mehta		Ravi	Kodavatiganti
	Ngozi	Muoneke		Arwel	Lloyd
	Theodorah	Nago		Bethan Wyn	Owen
	Rita	Njoku		Beryl	Roberts
	Vitalis	Nwokorie		Charley-Anne	Rutter
	Temi	Olusi		Jane	Stockport
	Kishen	Patel		Gemma	Szabo
	Amy	Quinn		lan	Walker
	Catherine	Rogers		Claire	Watkins
	Hannah	Rush		Glesni	Williams
	Susie	Slater		Linzi	Williams
	Anita	Soma	Glan Clwyd Hospital	Simon	Gollins (PI)
	Chara	Stavraka		Elizabeth	Allan
	Harriet	Waine		Jill	Andrews
	Sally	Walker		Kelly	Andrews
St George's Hospital	Fiona	Lofts (PI)		Lisa	Ashley
(London)				Llinos	Davies
	Doraid	Alrifa		Rachel	Davies
	Nia	Alsamarrai		Clair	Domenev
	Jason	Chow		Sarah	Evans
	Alice	Dainty		Emma	Hall
	Lorette	Ffolkes		Jane	Heron
	Caroline	Finlayson		Ravi	Kodavatiganti
	Claire	Gilmartin		Joanne	Lewis
	Anne	Haldeos		Arwel	Llovd
	Sam	Hollingworth		Carey	Macdonald-Smith
	Geoffrey	Howell		Claire	McGregor
	Robert	Ingham		Bethan Wyn	Owen
	Kay	Laurent		Tracy	Parry-Iones
	Vitalis	Nwokorie		Fiona	Redmond
	Antonio	Pesino		Bervl	Roberts
	Mark	Quarrell		Charley-Anne	Rutter
	Agne	Sekmokaite			Thackray
	Jesusa	Toledo		lan	Walker
Wrexham Maelor Hospital	Simon	Gollins (PI)		Jill	Westlake-Guy
riospitar	Stacy	Ackerley		Linzi	Williams
	Achrof	Alkhaldi		Stephanie	Wynne
	Kelly	Andrews	James Cook University Hospital	Nick	Wadd (PI)
	Rachel	Davies		Andrea	Boyce
	Alistair	Ellis-Jones		Alison	Chilvers
	Emma	Hall		Anthony	Donnelly
	Rachel	Hughes	(cont	inued on following	
(cc	ontinued in next co	lumn)			5 hage)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Helen	Dunn		Nigel	Bailey
	Vicky	Hanlon		Thea	Barlow
	Charlotte	Jacobs		Kayleigh	Bennett
	Steven	Liggett		Carolyn	Brode
	Craig	Mower		Thomas	Cornell
	Lisa	Peacock		Alexander	Dengler
	Jacqueline	Richards		Emma	Duley
	Agnieszka	Skotnicka		Sophia	Eloi
	Danielle	Sweeney		Caroline	Goddard
	Jane	Thompson		Aaron	Gould
	Hans	Van der Voet		Anne	Griffiths
	Gill	Wheater		Karina	Harris
	David	Wilson		Peter	Helliwell
	Jason	Wong		Claire	Hill
Poole Hospital	Amelie	Harle (PI)		Louise	Johns
	Tamas	Hickish (PI)		Tinnaya	King
	Michael	Adrio		Samantha	Lomax
	Maria	Alban		Kirsty	Maclean
	Julian	Alexander		John	Madine
	Lyn	Allen		Joe	Mathew
	Mary	Apps		John	McGrane
	Beth	Aubrey		Fiona	Minear
	Helen	Bradley		Sharon	Moore
	Savina	Elitova		Anna	Oakes
	Daniel	Fielding		Caroline	Parnell
	Maxine	Flubacher		Kerena	Partridge
	Deborah	Forster		Sallyanne	Platt
	Melanie	Foster		Kirsty	Prout
	Louise	Heckford		William	Pynsent
	Jill	Hobson		Rebecca	Rogers
	Hannah	James		Jenifer	Row
	Min Yee	Lee		Laura	Royle
	Helen	Morling		Johanna	Skewes
	Victoria	Osborne		David	Smith
	Sharon	Power		Darren	Snell
	Victoria	True		Luke	Townley
	Craig	Vincent	Royal Free Hospital	Daniel	Krell (PI)
	Roger	Wheelwright		Astrid	Mayer (PI)
Royal Cornwall Hospital	Richard	Ellis (PI)		Tahmin	Ahmed
	Linda	Allsop		lan	Clark
	Nicholas	Ashley		Jen	Fraser-Fish
	Kerry	Atkinson		Roopinder	Gillmore
(con	tinued in next co	lumn)	(cor	tinued on following	g page)

SaraBenLeahAartiTeshaSharonElizabethSouth Tyneside DistrictAshrafHospitalAmyKumudJudithRuthSt Bartholomew's Hospital (London)WaheedaHayleyJoanneNikolaosResmiSumaiyaCherylAliaJuanTanjilPratisthaHannahStephenSarahYeovil District HospitalAndrewJoanna	Hamilton Marks Meaden Nandani Suddason Thompson Woodford Azzabi (PI) Burns Burns Jain Moore Tindle Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran	Lincoln County Hospital	Karen Michelle Michaela Jess Lucy Kerry Amber Amber Barbara Lesley Barbara Zuzana Zuzana Sarah Sarah Jayne Sarah Olesya	Flynn Kotze Nock Perry Pippard Rennie Rowsell Smith Thomas Williams-Yesson Stokes (PI) Adu Archer Bell Borley Coombs
BenLeahAartiTeshaSharonElizabethSouth Tyneside District HospitalAmyKumudJudithRuthSt Bartholomew's Hospital (London)WaheedaHayleyJoanneNikolaosResmiSumaiyaCherylAliaJuanTanjilPratisthaHannahStephenSarahYeovil District HospitalAntrewJoanna	Marks Meaden Nandani Suddason Thompson Woodford Azzabi (PI) Burns Burns Jain Moore Tindle Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran	Lincoln County Hospital	Michelle Michaela Jess Lucy Kerry Amber Rufus Lesley Barbara Zuzana Zuzana Suzanne Suzanne Sarah Jayne Sarah Olesya	Kotze Nock Perry Pippard Rennie Rowsell Smith Thomas Williams-Yesson Stokes (PI) Adu Archer Bell Borley Coombs
LeahAartiTeshaSharonElizabethSouth Tyneside District HospitalAshrafMunudJudithRuthSt Bartholomew's Hospital (London)DavidWaheedaHayleyJoanneNikolaosResmiSumaiyaCherylAliaJuanTanjilPratisthaHannahStephenSarahYeovil District HospitalMatthewJoanna	Meaden Nandani Nandani Suddason Thompson Woodford Azzabi (PI) Burns Jain Moore Tindle Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran	Lincoln County Hospital	Michaela Jess Lucy Kerry Amber Rufus Lesley Barbara Zuzana Zuzana Suzanne Suzanne Sarah Jayne Sarah Olesya	Nock Perry Pippard Rennie Rowsell Smith Thomas Williams-Yesson Stokes (PI) Adu Archer Bell Borley Coombs
AartiTeshaSharonElizabethSouth Tyneside District HospitalAhrafAmyKumudJudithRuthSt Bartholomew's Hospital (London)DavidWaheedaHayleyJoanneNikolaosResmiSumaiyaCherylAliaJuanTanjilPratisthaHonahStephenSarahYeovil District HospitalMatthewJoanna	Nandani Suddason Thompson Woodford Azzabi (PI) Burns Jain Moore Tindle Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran	Lincoln County Hospital	Jess Lucy Kerry Amber Rufus Lesley Barbara Zuzana Zuzana Antoinette Suzanne Sarah Jayne Sarah Olesya	Perry Pippard Rennie Rowsell Smith Thomas Williams-Yesson Stokes (PI) Adu Archer Bell Borley Coombs Erancis
TeshaSharonElizabethSouth Tyneside District HospitalAshrafIAmyKumudKumudRuthRuthSt Bartholomew's Hospital (London)DavidIJuaithSt Bartholomew's Hospital (London)NikolaosSt Bartholomew's Hospital (London)NikolaosSt Bartholomew's Hospital (London)NikolaosISumaiyaIJoanneJoanneSumaiyaISumaiyaIJuanIJuanIJuanIFratisthaIStephenSarahSarahYeovil District HospitalAndrewIEricaMatthewJoanna	Suddason Thompson Woodford Azzabi (PI) Burns Jain Moore Tindle Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran	Lincoln County Hospital	Lucy Kerry Amber Rufus Lesley Barbara Zuzana Zuzana Antoinette Suzanne Sarah Jayne Sarah Olesya	Pippard Rennie Rowsell Smith Thomas Williams-Yesson Stokes (PI) Adu Archer Bell Borley Coombs Erancie
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South Tyneside DistrictAshrafHospitalAmyKumudJudithRuthRuthSt Bartholomew's Hospital (London)DavidMaheedaHayleyJoanneHayleyJoanneSumaiyaCherylSumaiyaCherylJuanJuanJuanJuanTanjilPratisthaHannahStephenSarahYeovil District HospitalAndrewInterveEricaMatthewJoanna	Azzabi (PI) Burns Jain Moore Tindle Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran	Lincoln County Hospital	Rufus Lesley Barbara Zuzana Antoinette Suzanne Sarah Jayne Sarah Olesya	Smith Thomas Williams-Yesson Stokes (PI) Adu Archer Bell Borley Coombs Erancis
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Judith Ruth Ruth St Bartholomew's Hospital (London) Waheeda Hayley Joanne Hayley Joanne Nikolaos Resmi Sumaiya Cheryl Alia Juan Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Erica Matthew	Moore Tindle Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran	Lincoln County Hospital	Zuzana Antoinette Suzanne Sarah Jayne Sarah Olesya	Stokes (PI) Adu Archer Bell Borley Coombs
Ruth Ruth St Bartholomew's Hospital (London) David Waheeda Hayley Image: Hayley Joanne Joanne Nikolaos Resmi Sumaiya Cheryl Alia Juan Juan Image: Hayley Juan Stephen Stephen Sarah Sarah Yeovil District Hospital Andrew Image: Hayley Joanna	Tindle Tindle Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran Komara		Antoinette Suzanne Sarah Jayne Sarah Olesya	Adu Archer Bell Borley Coombs
St Bartholomew's Hospital (London) David Waheeda Hayley Joanne Nikolaos Resmi Sumaiya Cheryl Alia Juan Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Matthew Joanna	Propper (PI) Abida Blackgrove Chin-Aleong Diamantis Jayachandran		Suzanne Sarah Jayne Sarah Olesya	Archer Bell Borley Coombs
Hospital (London) Hospital (London) Waheeda Hayley Joanne Nikolaos Resmi Sumaiya Cheryl Alia Juan Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Anthew Joanna	Abida Blackgrove Chin-Aleong Diamantis Jayachandran		Sarah Jayne Sarah Olesya	Bell Borley Coombs
WaheedaHayleyJoanneJoanneNikolaosResmiSumaiyaCherylAliaJuanTanjilPratisthaHannahStephenSarahYeovil District HospitalAntrewEricaMatthewJoanna	Abida Blackgrove Chin-Aleong Diamantis Jayachandran	- 	Jayne Sarah Olesya	Borley Coombs Francis
HayleyJoanneJoanneNikolaosResmiSumaiyaCherylAliaJuanJuanTanjilPratisthaHannahStephenSarahYeovil District HospitalAndrewEricaMatthewJoanna	Blackgrove Chin-Aleong Diamantis Jayachandran		Sarah Olesya	Coombs
Joanne Joanne Nikolaos Resmi Sumaiya Cheryl Alia Juan Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Erica Matthew Joanna	Chin-Aleong Diamantis Jayachandran	- 	Olesya	Francis
NikolaosResmiSumaiyaCherylAliaJuanTanjilPratisthaHannahStephenSarahYeovil District HospitalAndrewEricaMatthewJoanna	Diamantis Jayachandran	-	Annotto	
ResmiSumaiyaCherylAliaJuanTanjilPratisthaHannahStephenSarahYeovil District HospitalAndrewEricaMatthewJoanna	Jayachandran	-	Annelle	Hilldrith
Sumaiya Cheryl Alia Juan Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Erica Matthew Joanna	Kamara		Kathryn	Hoare
Cheryl Cheryl Alia Juan Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Erica Matthew Joanna	Namora	-	Carol	Lockwood
Alia Juan Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Erica Matthew Joanna	Lawrence	-	Maryanne	Okubanjo
Juan Juan Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Erica Matthew Joanna	Mahboob	-	Rhiannan	Pegg
Tanjil Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Erica Matthew Joanna	Navarro	-	Manuel	Ruiz-Echarri
Pratistha Pratistha Hannah Stephen Sarah Yeovil District Hospital Andrew Erica Matthew Joanna	Nawaz		Thomas	Sheehan
Yeovil District Hospital Andrew Erica Matthew Joanna	Panday	- 	Anuradha	Sheth
Yeovil District Hospital Andrew Erica Matthew Joanna	Pavne	- 	Andrew	Sloan
Yeovil District Hospital Andrew Erica Matthew Joanna	Russell		Caroline	Taylor
Yeovil District Hospital Andrew Erica Matthew Joanna	Slater		Ruth	Thoy
Erica Joanna			Alyson	Wilson
Matthew Joanna	Beaumont (PI)	Maidstone Hospital	Mark	Hill (PI)
Joanna	Septon (PI)		Doraid	Alrifa
Juanna			Elizabeth	Angus
Zanaida	Amstrong		Paulette	Basham
Claira	Amistrong	-	Lisa	Brown
Claire	Darron	-	Tracey	Chambers
Nigei	Beer		Alison	Davison
Kate	Beesley		Jackie	Evans
Eawin	Cooper	-	Sanjina	Kathuria
Sarah	De Bruijn		Samantha	Kestenbaum
David	Donaldson		Tiana	Kordbacheh
Iracey			Satish	Kumar
Adam	Duckett		Barbara	LeBrocg
Shirley	Duckett Edwards			

Registered With All Staff Listed (N = 2,076) (continued)

Hospital	First Name	Surname (principal investigator [PI])
	Gemma	McCormick
	Christos	Mikropoulos
	lan	Pamphlett
	Joanne	Patterson
	Caroline	Rodger
	Holly	Slater
	Charlotte	Stevens
	Jeff	Summers
	Alicia	Synowiec
	Katy	Taylor
	Lisa	Tribe
Nottingham University Hospitals	Cristina	Lopez Escola (PI)
	Rebecca	Ashton
	Suha	Atabani
	Alex	Blades
	Emma	Blades
	Lauren	Blackburn
	Pauline	Brookes
	Eliot	Chadwick
	Caroline	Coulson
	Michelle	Cunnell
	James	Donworth
	Jade	Eggleton
	Susan	Elliott
	Joanne	Hobbs
	Shaymaa	Hosni
	Laura	Kirk
	Emma	Marshall
	Balwir	Matharoo-Ball
	Kayleigh	Mills
	Jamie	Mills
	Jeanette	Mulhurn
	Karen	Newcombe
	Vanessa	Potter
	Tin	Sang-Tsang
	Rosalind	Roberts
	Maria	Scott
	Rafael	Silverman
	Ananth	Sivanandan
	Tania	Slater
	Anita	Stevenson
(cor	ntinued in next co	lumn)

First Name	Surname (principal investigator [PI])
Richard	Swinden
Jackie	Worville
Georgina	Walker
Andrew	Wright
Cheryl	Palmer (PI)
Shilamba	Bramham
Sue	Donnelly
Simon	Duke
Vanessa	Goss
Beverley	Haynes
Rebecca	Lam
Elizabeth	Lee
Sarah	Littlechild
Adam	McGeoch
Suzanne	Miller
Agnieska	Osmanska
John	Bridgewater (PI)
Ernesto	Balaguer-Ruiz
Girish	Bhome
Moira	Durdy
Lorraine	Hurl
Shardul	Kulkarni
Simranjit Kaur	Mehta
Lucinda	Melcher
Julia	Rees
Jamila	Roehrig
Rahi	Shah
Chloe	Van Someren
Ann	O'Callaghan (PI)
Oluwatobi	Adeagbo
Suhail	Baluch
Kathy	Blight
Sherilee	Cook
Heather	Cuell
Tracey	Dobson
Муа	Gyi
Antony	Higginson
Samuel Luke	Hill
Chloe	Holden
Tracey	Lee
ntinued on following	g page)
	First Name Richard Jackie Georgina Andrew Cheryl Cheryl Shilamba Simon Vanessa Rebecca Baverley Rabecca Barah Adam Suzanne Adam Suzanne John Ernesto Girish Moira Lorraine Shardul Jamila Rahi Chloe Ann Oluwatobi Suhail Kathy Sherilee Heather Tracey Mya Chloe Chloe

Participating Hospitals in Descending Order of the Number of Patients Participating Hospitals in Descending Order of the Number of Patients Registered With All Staff Listed (N = 2,076) (continued)

(principal

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principa investigator [PI])
	Jayne	McCartney		Meena	Raj
	Badrriyya	Mohamedali		Kelly	Reed
	Sethupathi	Muthuramalingam		Rocio	Riba
	Andras	Nagy	Royal Albert Edward	Francisca Marti	Marti (PI)
	Eleanor	laylor		Flena	Takeuchi (PI)
	Mary	Wands		lennifer	Cannon
	Robert	Williams		Kate	Chilman
	Carole	Wragg		Shien	Chow
Weston General Hospital	ton General Stephen Falk (PI) Louise	Louise	Devereaux		
	Paola	Di Nardo (PI)		Alison	Doran
	Marjorie	Tomlinson		Diane	Forrest
	Kathy	Beard		Karen	Moss
	Sandra	Beech		Monica	Patel
	Hannah	Berry		Angela	Power
	Debbie	Coles		Wendy	Stevens
	Donna	Cotterill	Sunderland Royal	Ashraf	Azzabi (PI)
	Harvey	Dymond	Hospital		
	Symeon	Eleftheriadis	• 	Hayley	Anderson
	Rajesh	Gamare		Rod	Beard
	Christine	Graham	- 	Jane	Cole
	Serena	Hilman	-	Michelle	Edwards
	Sarah	Kidd	• 	Adam	Hassani
	Denise	Leighton-Price	-	James	Henry
	Hugh	Lloyd-Jones	• 	Vivienne	Hullock
	Andrew	McKendrick	-	Stephen	Laybourne
	Kathryn	Munday	-	Paula	Newton
	Vivienne	Pixton	-	Rachel	Pearson
	Glenn	Saunders	-	lan	Pedley
	Ed	Sheffield	-	lan	Pepley
	Dawn	Simmons	-	Melanie	Robertson
	Axel	Walther	-	Fiona	Wakinshaw
	Rachel	Warinton	-	Kathryn	Wright
	Tom	Wells	Basingstoke and North Hampshire Hospital	Charlotte	Rees (PI)
Glangwili General	Mau-Don	Phan (PI)		Louise	Beattie
	Samantha	Coetzee		Victoria	Corner
	Sonya	Goriah		Abigail	Edwards
	Praba	Gupta		Adrienn	Fazekasne Fulep
	Ann	Hewins		Angela	Frith
	John	Murphy		Julie	Gwilt
	Zohra	Omar		Liz	Happle
	Bryan	Phillips		Roger	Hudson
(0	continued in next co	lumn)	(cont	inued on following	page)
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Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Andrew	Jackson		Anand	Sharma
	Lauriane	Kernwood		Margaret	Stone
	Lauriane	Kerwood		Harsha	Vara
	Kathryn	Leach	Queen Elizabeth	Gary	Middleton (PI)
	Emma	Magras	Hospital (Birmingham)		
	Asmat	Mustajab	(Dirmingham)	Sabia	Akhtar
	Christina	Narh		Amisha	Docai
	Pennie	Porter		Colm	Eordo
	Arun	Selvaraju	•	Kam	Caroia
	Jackie	Smith	•	Sharon	
	Claire	Williams		Silaion	Hapking (nag Dagla)
Forth Valley Royal	Dawn	Storey (PI)		Many	Kotadia
Hospital				Viotoria	Kupapa
	Joanne	Blackburn		Cathoring	Dreet
	Stephanie	Brogan		Cathenne	Prest
	Raj	Burgul		Helen	Prestori
	Eilidh	Henderson		Donna	Smith
	Jane	Keddie		Phillipe	l aniere
	Linnet	McGeever	Queen's Hospital Burton	Manjusha	Keni (PI)
	Kaye	McIlvar		Ann	Adams
	David	McIntosh		Mosan	Ashraf
	Caroline	Mcleary		Jo	Burns
	Lynn	Prentice		Helen	Сох
	Annette	Riley		Katv	English
	Joanne	Robinson		Annette	Fleet
	Anne	Todd		Sarah	Hathaway-Lees
	Patricia	Turner		Elizabeth	Kemp
	Sally	Young		Havley	Lewis
Mount Vernon Hospital	Mark	Harrison (PI)		Clare	Mewies
	Farhan	Ahmed		lennifer	Moves
	Nicola	Anyamene		James	Price
	Nicky	Barnes		Scott	Sanders
	Neel	Bhuva		Adrian	Smith
	Sam	Bosompem		Alison	Tillev
	Kari	Evans	Russells Hall Hospital	Ankit	lain (PI)
	Shiv	Gayadeen		Simon	Grumett (PI)
	Rob	Glynne-Jones		loann	Atkinson
	Marcia	Hall		Daniel	Bull
	Rakhi	Jain		Donna	Cleal
	Colleen	Murray		Lesley	Edwards
	Julie	Russell		Kath	Harrow
	Waqar	Saleem		Stacev	Jennings
(con	itinued in next co	lumn)	(cont	inued on following	

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Lucy	Kadiki		Yasmin	Brough
	Karen	Kanyi		Maggie	Brown
	Sally	Keates-Porter		Dannielle	Burgess
	Pek	Keng-Koh		Luanne	Carey
	Margaret	Marriott		Philippa	Clark
	Julie	Matthews		Peter	Correa
	Karen	McGarry		Kishore	Gopalakrishnan
	Vanessa	Moore		Cheryl	Hunter
	Andrew	Moores		Sian	Kempster
	Manesh	Patel		Mohammed	Khan
	Veena	Shinde		Fiona	McGurk
	Lucie	Smith		Jade	McKelvie
	Lucy	Smith		Lucy	Miller
	Angela	Watts		Sarah	O'Toole
Singleton Hospital	Sarah	Gwynne (PI)		Karandeepu	Pachoo
	Cristina	Lopez (PI)		Noor	Shaw
	Alya	Al-Affan		Laura	Stanley
	Philip	Bryant		Charlie-marie	Suddens
	Karen	Chesters		Rachel	Thompson
	Sharon	Davies		Maria	Truslove
	Jenna	Edwards		Linda	Wimbush
	Stuart	Evans		Jane	Wording
	Tracey	Ford	University Hospital of	Madhavi	Adusumalli (PI)
	Ricky	Frazer	North Tees		
	Judith	Gooding		David	Wilson (PI)
	Olivia	Hatcher		Alison	Chilvers
	Gillian	Jones		Helen	Dunn
	Lewis	Jones		Sarah	Essex
	Maung	Moe		Mohammad	Hegab
	Karen	Phillips		Hyder	Latif
	Euan	Pratt		Moira	Percival
	Alex	Richards		Sarah	Pitcairn
	Louise	Thomas		Lynda	Poole
	Julie	Turner		Pam	Race
	Nia	Viney		Andrew	Sigsworth
	Dawn	Withers		Eleni Andriana	Trigka
University Hospital	Vanessa	Potter (PI)		Helen	Wardle
Coventry	less	Allere		Dauliss	weinerili
	Jason	Allen	Whittington Hospital (London)	Pauline	Leonard (PI)
	Senthil Kumar	Athmanathan	(Rashidat	Adeniba
	Rachel	Bazeley		Dhili	Arul
	Susan	Bird		Ionathan	Flor
(COI	ntinued in next col	umn)	(cont	inued on following	nage)

Hospital	First Name	Surname (principal investigator [PI])	Hosp
	Kavita	Kantilal	
	Xiao Lou	Lu	
	Mulyati	Mohamed	
	Michelle	Saull	
	Nuray	Temiz	
	Azmina	Verjee	
	Simon	Wan	
Freeman Hospital, Newcastle	Ashraf	Azzabi (PI)	
	Craig	Alderson	_
	Chris	Barron	
	Michelle	Borthwick	_
	Julie	Burton	_
	Kay	Carson	_
	Fiona	Chapman	_
	Sarah	Cook	_
	Fareeda	Coxon	Nine
	Sue	Farrell	Dı
	Elaine	Greaves	
	Ahmed	Hashmi	
	Amanda	Henderson	
	Kathryn	Hewitt	
	Ben	Hood	
	Thomas	Jarvis	
	Irene	Jobson	
	Najibah	Mahtab	
	Lesley	Naik	
	Stephanie	Needham	
	Gemma	O'Neill	
	lan	Pedley	
	Sindhu	Ramamurthy	
	Zarine	Razvi	West
	Elizabeth	Reay	Ho
	Timothy	Simmons	
	Carole	Stobbart	
	Jonathan	Stoddart	
	Nichola	Waugh	
	Hesther	Wilson	
Leighton Hospital	Michael	Braun (PI)	
	Vanessa	Adamson	
	Carole	Bennion	
	Kim	Best	

Hospital	First Name	Surname (principal investigator [PI])
·	Leanne	Everall
	Julia	Gemmell
	Laura	Hanton
	Christy	Henderson
	Adele	Hough
	Chris	Hough
	Cyndy	Jackson
	Тауа	Jones
	Tracy	Larcombe
	Carolyn	Mansfield
	Emma	Margerum
	Julie	Meir
	Andrew	Ritchings
	Paul	Simcock
	Sarah	Tinsley
	Caroline	Walker
Ninewells Hospital, Dundee	Sharon	Armstrong (PI)
	Jennifer	Allison
	Rachael	Banks
	Anne	Black
	Louise	Brannan
	Frank	Carey
	Shona	Carson
	Helen	Cumming
	Debbie	Forbes
	Audrey	Lyall
	AJ	Munro
	Moira	Rogers
	lan	Sanders
	Gail	Weir
Westmorland General Hospital	David	Eaton (PI)
	Rebecca	Anderson
	Syed	Asghar
	Manal	Atwan
	Claire	Bartlett
	Ashoke	Biswas
	Jennifer	Bowler
	Karen	Burns
	Rebecca	Calvert
	Amy	Ford
	Laura	Healey
(cont	inued on following	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Name	Surname (principal investigator [PI])
	Nima	Herlekar	Great Western Hospital	Sarah	Lowndes (PI)
	Maria	Kassi		Graham	Brown
	Lauren	Kilifin		Christopher	Clarke
	Jo	Kilkenny		Amanda	Colston
	Nicola	Mackenzie		Jan	Dodge
	Aileen	Menzies		Eva	Fraile
	Helen	Morris		Sarah	Grayland
	Debbie	Power		Lesley	Haxton
	Jane	Ritchie		Lawrence	John
	Mary	Robinson		Jean	Kordula
	Vickie	Rose		Lynsey	Kyeremeh
	Rachel	Simmons		Donna	Lake
	Andrew	Taylor		Catherine	Lewis Clarke
	Hilary	Thatcher		Sarah	Long
	Gail	Wiley		Dorota	Marciniak
Belfast City Hospital	Victoria	Coyle (PI)		Laura	McCafferty
· · ·	Conal	Askin		Darren	McFadden
	Ellen	Brown		Sue	Meakin
	Karen	Campfield		Chanelle	Meyer
	Catherine	Davidson		Tim	Owen
	Michael	Hanna		Cerila	Parajes
	Diane	Law		Ronak	Patel
	Alison	McKeever		Suzannah	Pegler
	Aine	McKeown		Caroline	Pensotti
	Damian	McManus		Joseph	Stevens
	Linda	McNeice	Milton Keynes	Wasiru	Saka (PI)
	Karen	Parsons	University Hospital		
	Miranda	Reid	-	Ann	Abraham
	Fiona	Tarpey	-	Hannah	Ansell
	Joanne	Todd	-	Sam	Bosompem
	Paul	Ward	-	Matthew	Burnett
	Richard	Wilson	-	Chris	Ford
Dorset County Hospital	Amelie	Harle (PI)		Chloe	Green
	Richard	Osborne (PI)		Sara	Greig
	Pauline	Ashcroft		Penni	Hawkins
	Corrado	d'Arrigo		Chamene	Hicks
	Maxine	Flubacher		Aarzoo	Ilyas
	Jackie	Gibbins		Charity	Masvaure
	Karen	Hogben		Louise	Moran
	Arabis	Oglesby		Mala	Nathvani
	Andrew	Rees		Cheryl	Padilla-Harris
	Simon	Wilsher		Vijay	Patel
(con	tinued in next co	lump)	(conti	inued on following	g page)

Hospital	First Name	investigator [PI])
	Shahriar Mohammed	Reza
	Syed Azhar Javed	Rizvi
	Abby	Skillington
	Jeannette	Smith
	Oliver	Spring
	Heather	Thomas
	Stephanie	Thorp
	Valerie	Webb
	Dona	Wingfield
	Christopher	Woodard
New Cross Hospital	Simon	Grumett (PI)
	Syed	Asghar
	Vanda	Carter
	Sandeep	Dhillon
	Anna	Grant
	Clare	Hammond
	Kelly	Kauldhar
	Margaret	King
	Christine	Kirk
	Claire	Lomas
	Manel	Mangalika
	Gurminder	Sahota
	Elaine	Wylde
Pilgrim Hospital	Zuzana	Stokes (PI)
	Antoinette	Adu
	Simon	Archer
	Gloria	Barone
	Jayne	Borley
	Wendy	Deamer
	Jo	Fletcher
	Matthew	Flook
	Amy	Kirkby
	Victoria	Knight
	Tara	Lawrence
	Beverley	Mashegede
	Helen	Palmer
	Kerry	Pettitt
	Gunjan	Phalod
	Manuel	Ruiz-Echarri
	Gemma	Sankey

Hospital	First Name	Surname (principal investigator [PI])
	Rebecca	Spencer
	Kinga	Szymiczek
	Isobel	Thomas
Rotherham District General Hospital	Joanne	Hornbuckle (PI)
	Matthew	Barnes
	Sarah	Besley
	Meredyth	Harris
	Kath	Lowe
	Scott	Nicol
	Susan	Oakley
	Amy	Rees
	Charlotte	Widdop
Royal Bournemouth Hospital	Tamas	Hickish (PI)
	Jocelyn	Ablorde
	Omolade	Bakarey
	Rachel	Bower
	Zoe	Clark
	Nicole	Davies
	Alison	Hogan
	Stephanie	Jones
	Tiffany	Joyce
	Maria	Lane
	Sharon	Megson
	Sandy	Pressdee
	Linda	Purandare
	Taslima	Rabbi
	Emma	Sharland
	Esther	Una Cidon
	Luke	Vamplew
	Jasmin	Webb
Royal Marsden Hospital (London)	lan	Chau (PI)
	Helen	Breeze
	Shirley	Clifton
	Saoirse	Dolly
	Sandra	Esteban Moreno
	Lucy	Featherstone
	Shelby	Hatt
	Blanka	Hezelova
	Alexander	Lee
	Hazel	Lote
(con	tinued on followin	g page)

Hospital	First Name	Surname (principal investigator [PI])	Hospital	First Nam	Surname (principal e investigator [PI])
	Lizzie	Love		Jan	Thomas
	Nnenna	Ngwu		Andrea	Turner
	Isma	Rana		Izelle	Ueckermann
	Gihan	Ratnayake		David	Watkins
	Penny	Rogers	-		
	Clare	Saffery			
	Anna	Scott			
	Izelle	Ueckermann	-		
	Chloe	Westrip	-		
	lan	Chau	-		
	Sally	Abdelmalik	-		
	Gayahri	Anandappa	-		
	Joo Ern	Ang	-		
	Thushasa	Ansari	-		
	Sheila	Azaiji-Benjamin	-		
	Annette	Bryant	-		
	Shirley	Clifton	-		
	Richard	Crux	-		
	David	Cunningham	-		
	Sara	Diffley	-		
	Julie	Duncan	-		
	Laurice	Edwards	-		
	Sandra	Esteban Moreno	-		
	Lucy	Featherstone	-		
	Monika	Ferencova	-		
	Angela	Gillbanks	-		
	Sarnjeet	Kaur	-		
	Naila	Kaudeer	-		
	Shelize	Khakoo	-		
	Shannon	Kidd	-		
	Retchel	Lazaro Alcausi	-		
	Hazel	Lote	-		
	Jacqueline	Oates	-		
	Bijal	Patel	-		
	Minal	Patel	-		
	Brenda	Pem	-		
	Sijy	Pillai	-		
	Clare	Saffery	-		
	Francesco	Sclafani	-		
	Gillian	Smith	-		
	Eleanor	Temple	-		
	(continued in next co	olumn)	-		



FIG A1. Swimmer plot for FOCUS4-N, by location of primary tumor. CT, computed tomography.

TABLE A1. Baseline Characteristics of Laboratory Tests by Treatment Allocation for FOCUS4-N Active Monitoring

	Active Monitoring		Capecitabine	
		Mean (SD)		Mean (SD)
Characteristic	No.	Median (IQR)	No.	Median (IQR)
WBC, 10 ⁹ /L	127	6.3 (2.2)	127	6.6 (8.8)
		6.0 (4.6-7.4)		5.8 (4.9-7.6)
Neutrophils, 10 ⁹ /L	127	3.7 (1.8)	127	4.0 (3.4)
		3.4 (2.4-4.7)		3.5 (2.5-4.8)
Platelets, 10 ⁹ /L	127	244 (90)	127	249 (83)
		239 (190-284)		237 (184-294)
Serum bilirubin, mmol/L	127	8.7 (4.1)	127	8.3 (3.9)
		8.0 (6.0-11.0)		8.0 (5.0-10.0)
ALP, U/L	127	132 (79)	127	112 (60)
		110 (84-154)		98 (81-124)
AST/ALT, U/L	127	25.7 (14.5)	127	28.2 (17.5)
		22 (16-31)		24 (17-34)
Renal function, mL/min	126	90.5 (28.6)	127	90.5 (27.3)
		90 (69-100)		90 (71-101)
CEA, μg/L	122	96 (427)	125	83 (251)
		6 (3-28)		8 (3-22)
LDH, U/L	115	369 (149)	114	429 (489)
		353 (241-464)		376 (254-454)

Abbreviations: ALP, alkaline phosphatase; CEA, carcino embryonic antigen; IQR, interquartile range; LDH, lactate dehydrogenase; SD, standard deviation.

in FOCUS4-N Trootmont A

 TABLE A2.
 Worst Toxicity Reported per Patient, by the Treatment Arm
 TABLE A2.
 Worst Toxicity Reported per Patient, by the Treatment Arm

 in FOCUS4-N (continued)

	I reatment Arm		
CTC Grade	Active Monitoring, No. (%) $(n = 127)$	Capecitabine, No. (%) $(n = 127)$	
Nausea			
0	94 (74)	85 (67)	
1	15 (12)	27 (21)	
2	10 (8)	10 (8)	
3	1 (1)	1 (1)	
Missing	7 (6)	4 (3)	
Vomiting			
0	106 (83)	108 (85)	
1	7 (6)	9 (7)	
2	6 (5)	5 (4)	
3	1 (1)	1 (1)	
Missing	7 (6)	4 (3)	
Diarrhea			
0	92 (72)	58 (46)	
1	19 (15)	40 (31)	
2	6 (5)	19 (15)	
3	3 (2)	6 (5)	
Missing	7 (6)	4 (3)	
Stomatitis			
0	114 (90)	98 (77)	
1	5 (4)	21 (17)	
2	1 (1)	4 (3)	
Missing	7 (6)	4 (3)	
Dry skin			
0	105 (83)	81 (64)	
1	14 (11)	38 (30)	
2	1 (1)	3 (2)	
3	0 (0)	1 (1)	
Missing	7 (6)	4 (3)	
Skin rash			
0	111 (87)	104 (82)	
1	9 (7)	14 (11)	
2	0 (0)	3 (2)	
3	0 (0)	2 (2)	
Missing	7 (6)	4 (3)	
Nail dystrophy			
0	110 (87)	105 (83)	
1	9 (7)	16 (13)	
2	1 (1)	2 (2)	
Missing	7 (6)	4 (3)	
	(continued in next colu		

	Treatment Arm			
CTC Grade	Active Monitoring, No. (%) (n = 127)	Capecitabine, No. (%) $(n = 127)$		
PPE				
0	111 (87)	56 (44)		
1	5 (4)	35 (28)		
2	4 (3)	25 (20)		
3	0 (0)	7 (6)		
Missing	7 (6)	4 (3)		
Anemia				
0	88 (69)	69 (54)		
1	20 (16)	43 (34)		
2	11 (9)	9 (7)		
3	1 (1)	3 (2)		
Missing	7 (6)	3 (2)		
Neutropenia				
0	114 (90)	115 (91)		
1	3 (2)	4 (3)		
2	0 (0)	2 (2)		
3	0 (0)	2 (2)		
4	2 (2)	1 (1)		
Missing	8 (6)	3 (2)		
Total	127 (100)	127 (100)		

Abbreviation: PPE, palmar-plantar erythema.