

Supplementary File 2. Table 1. Participants/units

Profession and Area	Level 3/2 beds†	Annual admissions	General /Specialist unit	Research staff numbers including whole time equivalent (WTE)	Research team working patterns	Consultant numbers and funded consultant time (Professional Activity session [PA]) †† for research	Number (total) of ongoing clinical trials (both NIHR and non-NIHR/in set-up)
Nurse/ CRN Eastern	14	1000	General	1 (work with Emergency Department [ED]); (1 WTE)	5 days/week 8-4pm (flexible)	7 1 PA	6
Nurse/CRN Yorkshire and Humber	24	1600	General	2; (2 WTE)	5 days (flexible – 9 hour cover)	13 0.5 PA (shared)	5
Nurse/ CRN West Midlands	25	1600	General	1 (was 4); (1 WTE)	5 days/week; 8-4pm	<i>Data not provided/ unknown</i> 1 PA	6
Consultant/ CRN Wessex	12	900	General	2 (across all Division 6*, not just ICU); 1 WTE)	5 days/week; 8-4pm	<i>Data not provided/ unknown</i> 2 PAs	6
Trial co-ordinator/ CRN London South	63	3100	General/trauma	6 across ED/ICU; (<i>Data not provided/ unknown</i>)	5 days/week (and on-call at weekends/nights as required)	>50 (exact number unknown) 0 PA	5
Consultant/ CRN North West London	44	2600	General/ Trauma/ Neuro	2 fellows + 5 nurses; (2 fellows at 2 WTE; 5 nurses at 4.5 WTE. 1 WTE research assistant)	7 days/week	21 1 PA	4
Nurse/ CRN Greater Manchester	40	2000	General	4 (across ED); (4 WTE)	8-8pm 5 days/week (and on-call at weekends/nights as required)	22 1 PA	8/ 2 in set-up
Nurse/ CRN TV and South Midlands	9	500	General	0.5; (0.5 WTE)	part/time (early/late shift pattern; weekdays)	10 0.5 PA	2
Consultant/ CRN Wessex	11	750	General	4 + 0.5 trainee; (2.5 WTE + 0.5 WTE trainee)	7 days/week (plus trainee shifts)	6 0 PA	4
Consultant/ CRN West Midlands	102	4000	General/ Cardiac/ Trauma/ Burns/ Neuro	7 (across ED/Trauma and ICU); (6 WTE including Trial Coordinator and administrators)	7 days/week	34 1 PA	7/ 2 in set-up
Consultant/ CRN North West Coast	33	1550	General	3 + 0.5 trainee; (2.5 WTE + 0.5 WTE trainee)	5 days/week (flexible)	17 1 PA	3/ 1 in set-up
Consultant/ CRN West of England	15	5-600	General	0	n/a	18 0.5 PA	1/ 2 in set-up

Consultant/ CRN West of England	15	5-600	General	0**	n/a	18 0.5 PA	1/ 2 in set-up
Nurse/ CRN South West Peninsula	28	1700	General/trauma/ Neuro/ Cardiac	1 (across dermatology/ neuro); (1 WTE)	8-4pm; 5 days/week	14 <i>Data not provided /unknown</i>	0/ 1 in set-up
Nurse/ CRN West of England	20	1300	General	9; 5 WTE + 4 rotational posts	7-7pm; 7 days a week	<i>Data not provided /unknown</i> 2 PAs (shared)	10
Nurse/ CRN East Midlands	69	4000	General/trauma/ Neuro	6 (covering ED) – split site; (4.2 WTE)	7-7pm; 7 days/week	<i>Data not provided /unknown</i> 0 PA	13
Nurse/ CRN Norfolk	19	850	General	2 *; (1.45 WTE)	8-4pm 5 days/week (and on-call at weekends/nights as required)	<i>Data not provided /unknown</i> 0 PA	4/ 1 in set-up
Nurse/ Wales	33	1500	General/ Neuro	5; (4 WTE)	8-4pm 5 days/week	14 1 PA	6
Nurse/ CRN North West Coast	35	1880	General	2; (1 WTE nurse at band* 7 shared and 4 x nurse at band 6 at 0.8 WTE)	7.30-3.30pm 5 days/week	13 0 PA	9
Nurse/ CRN South West Peninsula	26	1580	General/ Neuro	1; (<i>Data not provided /unknown</i>)	8-4pm 5 days/week	14 0 PA	7
Nurse/ CRN North East North Cumbria	18	1000	General	2; (1 nurse at band 3 research assistant; 1 nurse at band 6 WTE)	9-5pm 5 days/week	9 0 PA	8
Nurse/ CRN East Midlands	19	1200	General	3; (2.8 WTE)	8-7pm	<i>Data not provided /unknown</i> 2 PAs	11
Nurse/ CRN Eastern	20	1890	General	4; (<i>Data not provided/unknown</i>)	8-8pm	<i>Data not provided /unknown</i> 1 PA	7
Nurse/ CRN Greater Manchester	19	1700	General	0.8; (0.8 WTE)	8-4pm	12 0 PA	4
Consultant/ CRN Wessex	24	1200	General	3; (1.6 WTE + 2 WTE for 3 month rotations)	8am-12pm 7 days a week	14 2 PAs	5
Consultant/ CRN London South	63	3500	General/ Neuro	9; (2 nurse at band 7; 7 nurse at band 6* WTE)	8-8pm	<i>Data not provided /unknown</i> 1 PA	10
Nurse/ CRN West of England	21	2000	General	5; (4 WTE (1 nurse at band 7; remainder nurse at band 6)	7-7pm	12 <i>Data not provided /unknown</i>	8

† Level 2 beds are where patients require more detailed observation or intervention including support for a single failing organ system or post-operative care and those 'stepping down' from higher levels of care Level 3 beds only. Level 3 care is defined as patients needing advanced respiratory support alone or support of at least two organ systems. Note basic respiratory and basic cardiovascular support occurring on one day count as one organ. This level includes beds for all complex patients requiring support for multi-organ failure. Flexible critical care beds where there is a mix of level 2 and level 3 beds (NHS data dictionary: https://www.datadictionary.nhs.uk/data_dictionary/attributes/u/unit_bed_configuration_de.asp?shownav=1) ††PAs=Professional Activities Sessions are four hour weekly sessions for consultants only *Working across all Division 6 studies, not limited to critical care; Division 6 is one of six NIHR overarching divisions that encompasses critical care, anaesthesia/peri-operative/pain, emergency care/injuries, surgery, respiratory,

gastroenterology, infectious diseases/microbiology, hepatology, ophthalmology, ENT and **Able to access other Division 6 nurses when studies are active. * Band refers to the grade of nurse/research assistant as per Agenda for Change <https://www.nhsemployers.org/pay-pensions-and-reward/agenda-for-change/pay-scales/annual>. Band 7 is considered a senior nurse.