

1. Introduction

In response to the pandemic NAP7 has been postponed.

After feedback from Local Co-ordinators we aim to launch NAP7 in May 2021, a year after originally planned.

The College would like to track how hospitals, anaesthesia and surgery has been and continues to be affected by COVID-19 over the next 6 months. We hope to achieve this with the help of the network of Local Co-ordinators established in early 2020 for NAP7. A series of snapshot surveys will examine hospital organisation, anaesthetic department structure/reorganisation, staff absences and anaesthetic/surgical activity. These will provide a national picture of the stresses and impact on hospitals and services in the next few months. It will also provide information which will guide whether it is practical and right to start NAP7 in May 2021.



2. The first survey will be the most extensive (it will get easier)

We wish to collect data on surgical activity for the month October 2020. This data may be available from the electronic theatre management system, management, the business unit or by hand counting.

Please complete the survey by the 18/11/20.

We strongly recommend you read through the questions in the pdf document before starting to complete the SurveyMonkey.

One of the questions we will ask each time we send the survey is the number of cases completed in all your theatres over a 24 hour period (please choose any Tuesday, Wednesday or Thursday during October 2020). This may be available from your theatre management system, operating lists or may be something you wish to collect locally (eg as a trainee project). We would like you to ideally complete the survey on the same day of the week each time it is sent – it is important you choose only a Tuesday, Wednesday or Thursday – so we can track changes across surveys.

We will undertake further surveys approximately every 1-2 months (the interval will depend on the course of the pandemic).

If there is more than one Local Co-ordinator for your hospital, please ensure only one form is completed.

We will include all contributing LCs as collaborators in any publications that arise.

Thank you, your contribution is invaluable.

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HSRC-NAP7 Clinical Research Fellows

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RCoA Clinical Lead for NAP7

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3. Space, Staff, Stuff and Systems

The following section is based on the <u>Anaesthesia-ICM hub document</u> 'Restarting planned surgery in the context of the COVID-19 pandemic A strategy document from the Royal College of Anaesthetists, Association of Anaesthetists, Intensive Care Society and Faculty of Intensive Care Medicine'. This describes the prerequisites for restarting planned surgery in terms of space, staff, stuff and systems. The red, amber and green rating for each is described below.

Choose the option that most closely matches your hospital.

Space

RED

- Critical care occupancy close to expanded capacity.
- Patients in temporary ICUs in operating theatres scheduled for elective use or in other locations to be used in the surgical pathway, eg PACU or surgical ward.
- No planning for creating COVID-19-positive and COVID-19-negative patient separation in critical care facilities to accommodate planned and unexpected admissions after elective surgery.

AMBER

- Critical care occupancy reduced from expanded capacity and approaching baseline capacity.
- Other hospitals in the regional ICU network still using temporary ICU facilities, including the use of paediatric ICUs for adult patients.
- Plans for COVID-19-positive and COVID-19-negative critical care beds and pathways in development but not complete.

- Critical care occupancy close to 85% of baseline capacity.
- COVID-19-positive and COVID-19-negative critical care bed and pathway separation enacted and effective.

Staff

RED

- Theatre staff, perioperative care staff and anaesthetists still significantly committed to critical care duties.
- Critical care staffing ratios significantly higher than prepandemic levels and reliant on non-ICU staff.
- Out-of-hours resident on call duties being performed by consultant and SAS anaesthetists.
- Shielded and higher-risk anaesthetists not performing patient-facing activities.

AMBER

- Working patterns of anaesthetic, theatre and perioperative care staff of all professions still significantly impacted by pandemic surge conditions and recovery from these.
- Critical care staffing ratios above prepandemic levels or reliant on non-ICU staff.
- Trainee on call rotas restored but less than normal number of trainees available for work.
- Plans in place for sufficient numbers of consultant and SAS anaesthetists to be available to provide cover for planned surgical activity, but not yet fully in place.
- Planning for adequate staff numbers to restart non-theatre anaesthetic activities such as preoperative assessment, acute pain rounds and perioperative medicine activity but adequate numbers not yet available.
- Planning for returning higher-risk anaesthetists to patient-facing activities after appropriate risk assessments but not yet implemented.

- Elective surgical pathways fully staffed by intact theatre and perioperative care staff rotas.
- Critical care staffing ratios at or near prepandemic levels.
- Trainee on call rotas restored with normal numbers of trainees.
- Sufficient numbers of consultant and SAS anaesthetists available to provide normal staffing levels for the planned surgical activity to be delivered.
- Non-theatre activities ready to be restarted.
- Higher-risk anaesthetists returned to patient-facing activities where appropriate.

Stuff (equipment)

RED

- Equipment used in surgical pathways still in extensive use for critical care patients, eg anaesthetic machines and infusion pumps.
- Shortages of PPE and other equipment necessary for effective infection control.
- Non-availability or low stock levels of key drugs used in critical care and anaesthesia such as
 first-line choice of neuromuscular blocking drugs, opioid analgesics, hypnotics, sedatives,
 inhalational anaesthetics, inotropes and vasopressors.
- Non-availability of postoperative critical care equipment either in general ICU capacity or for specific forms of support such as RRT or non-invasive ventilation.

AMBER

- Adequate numbers of anaesthetic machines and infusion pumps available but insufficient in reserve in case of damage or machine malfunction.
- Stocks of PPE and other equipment necessary for effective infection control adequate for
 potential increases in critical care activity and increasing surgical activity but supply chain not
 assured.
- Stocks of key drugs used in critical care and anaesthesia adequate but uncertain resupply through normal supply chain routes.
- Postoperative critical care capacity limited and in competition with ongoing COVID-19 requirements.

- Minimal equipment usually used in the surgical patient pathway in use in critical care, with adequate equipment in reserve in case of damage or machine malfunction.
- Adequate stocks of PPE and other equipment necessary for effective infection control for potential critical care and planned surgical activity with assured supply chain.
- Adequate supplies of key drugs used in critical care and anaesthesia with secure supply chain identified.
- Good availability of critical care capacity and all relevant organ support modalities.

Systems

RED

- COVID-19-positive and COVID-19-negative pathways for surgical care not developed or implemented.
- COVID-19 testing not sufficiently available for patients and staff.
- Anaesthetic services key to supporting theatre activity not active, eg preoperative assessment, acute pain service and perioperative medicine activity.

AMBER

- COVID-19-positive and COVID-19-negative pathways for surgical care planned but not yet implemented.
- COVID-19 testing available for patients and staff, with clear policies in development for how testing can protect staff, protect patients and facilitate efficient surgical services.
- Staffing and facilities for anaesthetic services key to supporting theatre activity available.
- Policies in development for the rational prioritisation of surgical patients as theatre capacity becomes available but does not yet fully match demand.
- Policies in development for the rational prioritisation of surgical patients as critical care capacity becomes available but does not yet fully match demand.

- COVID-19-positive and COVID-19-negative pathways for surgical care fully implemented.
- Anaesthetic services key to supporting theatre activity functioning well.
- COVID-19 testing available for patients and staff, with clear policies in place for how testing will
 protect staff, protect patients and facilitate efficient surgical services.
- Policies for the rational prioritisation of surgical patients as theatre capacity becomes available are fully implemented.
- Policies implemented for the rational prioritisation of surgical patients as critical care capacity becomes available.
- 1. Please indicate where your department lies regarding space, staff, stuff (equipment) and systems for restarting planned (elective surgery).

	RED	AMBER	GREEN
SPACE			
STAFF			
STUFF (equipment)	\bigcirc		\bigcirc
SYSTEMS			
Comments			



Anaesthesia Critical Care Covid Activity Tracking Survey: ACCC-track - round 1 (October 2020)
4. Qualitative questions
2. What are the main problems or barriers you have faced while attempting to deliver perioperative care in your hospital/s during the COVID-19 pandemic?

3. What are the factors that have acted as facilitators or have enabled you to deliver perioperative care in your hospital/s during the COVID-19 pandemic?



Anaesthesia Critical Care Covid Activity Tracking Survey: ACCC-track - round 1 (October 2020

5. Hospital activity		
4. How many hospitals	do you represent?	
_ 1	_ 4	>6
<u> </u>	5	
<u> </u>	6	
5. What region are you	reporting from?	
Please answer the following ques always report for the same hospit		hospital(s) that you represent as a NAP7 Local Coordinator. Please rvey.
6. Please provide the name	e of the hospital.	
7. Is this an NHS or inde	ependent hospital?	
NHS		
Independent		
Both		
8. How many theatres (excluding non-theatre sites	s) were open for activity in your hospital this time last year?
9. How many theatres (excluding non-theatre sites	s) are currently open for activity in your hospital?

sector)?	theatres are currently undertaking surgery for your hospital at <i>other locations</i> (eg indepe
\$	
11 Daysay ba	one and an improved distributions winds COV/ID 10 the actual area (a vite O Tiple all that area by
Yes (on-site	ve a designated 'low/lower risk' COVID-19 theatre area/suite? Tick all that apply.
	al site eg independent hospital, another Trust)
Yes (anothe	r hospital, same Trust)
No	



Anaesthesia Critical Care Covid Activity Tracking Survey: ACCC-track - round 1 (October 2020)

In-theatre activity and efficie	ency
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12. Please provide activity data for activity <u>for the month October 2020</u> compared to the same month last year? Please state whether this is an accurate answer or an estimate.

	Percentage of last year's activity (%)	Accurate OR Estimate number
Cancer operations	\$	\$
Non-cancer elective operations	\$	\$
Emergency surgery	\$	\$
Paediatric surgery	\$	\$

13. Today, only considering the theatres that are active, what do you estimate is the average theatre productivity (cases completed) compared to the same theatres before COVID-19?

Please ignore theatres that are not running.

\bigcirc	<25%
	25-50%
	50-75%
	75-100%
	>100%



18	3. Is this an accurate or an estimate?
	Accurate
	Estimate with margin of error <10%
	Estimate with margin of error >10%
Non-t	heatre locations
10 5	Please indicate the TOTAL number of operations completed in non-theatre locations over 24 hours.
13.1	lease indicate the 101AL number of operations completed in non-tricate focations over 24 hours.
20	0. Is this an accurate or an estimate number?
	Not applicable
	Accurate
	Estimate with a margin of error <10%
	Estimate with a margin of error >10%
21. V	Vhat would this total have been one year ago?
2:	2. Is this an accurate or an estimate number?
	Not applicable
	Accurate
	Estimate with a margin of error <10%
	Estimated with a margin of error >10%



Anaesthesia Critical Care Covid Activity Tracking Survey: ACCC-track - round 1 (October 202)

8.	Staf	fing	cha	ang	es

23. Compared to December 2019 how many anaesthetists (including locums) are there employed in your hospital?

	December 2019	October 2020
Consultants	\$	\$
SAS	\$	\$
ST3-ST7 level or equivalent	\$	\$
CT1-CT3 level or equivalent	\$	\Delta
Anaesthesia Associates	\$	\(\bigstyle \)
Other	\$	\$

24. Compared to December 2019 how many intensivists (*if separate from anaesthesia and not counted above already*) are there employed in your hospital?

	December 2019	October 2020
Consultants	\$	\$
SAS	\$	\$
ST3-ST7 or equivalent	\$	\$
CT1-CT3 or equivalent	\$	\$
Other	\$	\$

25. How many of the e.g. intensive care			-			
Please include wh shifted' to more IC		nts where anaes	thetists with wo	ork programme:	s including ICU	have beer
. Number of anaesthe	ists switching to be or	n ICU rota.]		
. Number of anaesthe	ist/intensivists switchi	ng to full time ICU.]		
. Number of anaesthe	ists on MERIT/Airway	team each day.]		
26. How many ana Redeployed to non-p		ntensivists are:		7		
o. Off work with sicknes	s as a result of COVI	D-19?				
. At home shielding?						
. At home due to self-i	solating and/or quara	ntine?				



Anaesthesia Critical Care Covid Activity Tracking Survey: ACCC-track - round 1 (October 2020)

9. What arrangements are currently in place at your hospital for <u>elective ADULT surgery</u>? **Tick all that apply.**

27.	Self isolation
	Not applicable - no elective adult surgery
	14 days
	7 days
	From day of PCR test
	No self-isolation
	Other (please specify)
28.	PCR antigen SARS-CoV-2 pre-op testing
28.	PCR antigen SARS-CoV-2 pre-op testing Not applicable - no elective adult surgery
28.	
28.	Not applicable - no elective adult surgery
28.	Not applicable - no elective adult surgery Single test within 72 hours
28.	Not applicable - no elective adult surgery Single test within 72 hours Single test within 48 hours
28.	Not applicable - no elective adult surgery Single test within 72 hours Single test within 48 hours Two tests

29.	COVID-19 symptoms screening
	Not applicable - no elective adult surgery
	Patients contacted on the day before surgery
	Assessed on hospital arrival
	No COVID-19 symptoms screening
	Other (please specify)
30.	Patient flow
	Not applicable - no elective adult surgery
	Separation of pathways for elective (lower COVID-19 risk) patients from rest of hospital
	Staggered admission to match theatre scheduling
	None
	Other (please specify)



Anaesthesia Critical Care Covid Activity Tracking Survey: ACCC-track - round 1 (October 2020)

10. What arrangements are currently in place at your hospital for <u>elective PAEDIATRIC surgery</u>? Tick all that apply.

31.	Individuals required to self-isolate
	Not applicable - no elective paediatric surgery
	Patient
	Household
	No self-isolation
	Other (please specify)
32.	Length of self-isolation
	Not applicable - no elective paediatric surgery
	14 days
	7 days
	From day of PCR test
	No self-isolation
	Other (please specify)

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33.	3. PCR antigen SARS-CoV-2 pre-op testing	
	Not applicable - no elective paediatric surgery	
	Single test within 72 hours	
	Single test within 48 hours	
	Two tests	
	No tests	
	Other (please specify)	
34.	4. COVID-19 symptoms screening	
	Not applicable - no elective paediatric surgery	
	On the day before surgery	
	On day of surgery only	
	No COVID-19 symptoms screening	
	Other (please specify)	
35.	5. Patient flow	
	Not applicable - no elective paediatric surgery	
	Separation of pathways for elective (low COVID-19 risk) patients from rest of hospital	
	Staggered admission to match theatre scheduling	
	None	
	Other (please specify)	



11. What arrangements are currently in place at your hospital for <u>elective OBSTETRIC surgery</u>? Tick all that apply.

36.	Individuals required to self-isolate
	Not applicable - no elective obstetric surgery
	Patient
	Birthing partner
	No self-isolation
	Other (please specify)
37.	Length of self-isolation
	Not applicable - no elective obstetric surgery
	14 days
	7 days
	From day of PCR test
	No self-isolation
	Other (please specify)

20	DCD antigon SADS CoV 2 pro on testing	
30.	PCR antigen SARS-CoV-2 pre-op testing Not applicable- no elective obstetric surgery	
	Single test within 72 hours	
	Single test within 48 hrs	
	Two tests	
	No tests	
	Other (please specify)	
39.	O. COVID-19 symptoms screening	
	Not applicable- no elective obstetric surgery	
	On the day before surgery	
	On day of surgery only	
	No COVID-19 symptoms screening	
	Other (please specify)	
40.). Patient flow	
	Not applicable- no elective obstetric surgery	
	Separation of pathways for elective (low COVID-19 risk) patients from rest of hospital	
	Staggered admission to match theatre scheduling	
	None	
	Other (please specify)	



12. Personal protective equipment

Airborne = FFP3, fluid repellent long sleeved gown, gloves, eye protection

Droplet = Fluid resistant surgical mask, apron, gloves +/- eyewear

Contact = Standard face mask, apron, gloves, +/- eyewear

None specific = Standard face mask only

41. What PPE is used in each of the following procedures for a COVID-19 low risk pathway?

	Airborne precautions	Droplet precautions	Contact precautions	None
Performing aerosol- generating procedures (AGPs)	0	0		0
Performing regional anaesthesia	\bigcirc		\bigcirc	\bigcirc
During surgery without AGPs				\circ
Recovery area	\bigcirc			
Pre-op assessment of patients on ward or theatre admission area (patient contact)				0
Pre-op assessment of patients on ward or theatre admission area (no patient contact)				
Ward staff post- operatively (within 2m of patient)	0	0	0	0

42. What PPE is used in each of the following procedures for a COVID-19 high risk pathway?						
	Airborne precautions	Droplet precautions	Contact precautions	None		
Performing aerosol- generating procedures (AGPs)	0					
Performing regional anaesthesia		\bigcirc				
During surgery without AGPs		\circ	\circ			
Recovery area	\bigcirc	\bigcirc	\bigcirc			
Pre-op assessment of patients on ward or theatre admission area (patient contact)	0	0	0			
Pre-op assessment of patients on ward or theatre admission area (no patient contact)						
Ward staff post- operatively (within 2m of patient)	0	\circ	\circ			



Anaesthesia Critical	Care Covid Activity Tracking S	urvey: ACCC-track - round 1 (October 2020
13. Turnaround times/fa	llow periods	
43. What is the time taken indicative time)	in minutes for ONE air exchange in	your non-laminar flow theatres (average or
Please indicate how much time yo cleaning) can commence.	ou wait after each of these events before of	thers may enter and routine theatre activity (eg surgery, or
If times vary by theatre please use	e an indicative, typical or average time.	
COVID-19 low risk pathway		
44. What is the time <i>in minu</i> 19 <u>low risk</u> pathway?	utes and number of air exchanges	required to resume normal activity in a COVID-
	Time (minutes)	Number of air exchanges
After tracheal intubation	•	•
After tracheal extubation	•	\$
After regional anaesthesia in awake patient	\$	\$
At end of surgery in awake patient	\$	\$
45. What is the time <i>in minu</i> COVID-19 <u>low risk</u> pathway	•	required until patient can leave theatre for a
	Time (minutes)	Number of air exchanges
After tracheal extubation	\$	•

46. Where are supraglottic a	irways removed in your <u>low-risk</u> p	athwavs?
In theatre	,	
In recovery		
Other (please specify)		
(presses spessy)		
OVID-19 high risk pathway		
	and number of air exchanges req	uired to resume normal activity for a COVII
9 <u>high risk</u> pathway?	Time (minutes)	Number of air exchanges
After tracheal intubation	(minaces)	tumber of all exchanges
After tracheal extubation	\$	\$
anaesthesia in awake	\$	•
anaesthesia in awake patient At end of surgery in awake patient	•	•
anaesthesia in awake patient At end of surgery in awake patient 8. What is the time in minutes	•	
After regional anaesthesia in awake patient At end of surgery in awake patient 8. What is the time in minutes COVID-19 high risk pathway?	and number of air exchanges req	uired until patient can leave theatre for a
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anaesthesia in awake patient At end of surgery in awake patient 8. What is the time in minutes COVID-19 high risk pathway?	and number of air exchanges req	uired until patient can leave theatre for a



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14. Any other comments				
49. Is there anything else you would like to	o add?			



15. Thank you, your contribution in invaluable.