



This document is the result of collaboration between the following organisations:

- National Clinical Programme in Surgery
- National Clinical Programme in Anaesthesia
- National Clinical Programme in Trauma and Orthopaedic Surgery
- National Clinical Adviser and Group Lead (Acute Operations)
- Health Protection Surveillance Centre

ALERT

New variant SARS-CoV-2 with reported increased transmission risk

Affected population:

All patients who have travelled from Great Britain (this includes England, Wales and Scotland but not NI) in the previous 14 days and attending for scheduled care.

Action:

These individuals should be assessed very carefully for symptoms suggestive of COVID-19. If the scheduled care can be rescheduled for 14 days or more after their arrival without significance for their clinical outcome that is the preferred option. If a procedure is required during the 14 days or admission they should be tested for SARS-CoV-2 in advance of admission for scheduled procedures even where such procedures would not generally required testing in advance (for example day case procedures that would not otherwise require testing in advance).

Haemodialysis

Patients travelling from Great Britain (not NI) and availing of holiday access haemodialysis should be managed with contact and droplet precautions, including isolation where available, even in the absence of symptoms suggestive of COVID-19.

Version number	Date	Updates to document
V1	10/8/20	Approved for Release
V1.1	24/8/20	Update to align with ECDC
V1.2	2/11/20	 Minimising Exposure Risk Clarification. Change in risk designation from colour indicator to <25 and ≥25. All in-patient admissions are required to have SARS-CoV-2 testing prior to admission when 14-day incidence is ≥ 25/100,000 population in the region where the patient lives o the hospital is sited. Day-case admissions for AGPs are required to be tested when 14-day incidence is > 25/100,000 pop. Reduced period of infectiousness for patients with COVID-19 in community who did not require hospitalisation from 14 to 10 days, with final five of those days fever free Removal of healthcare algorithm and replace with link to HSE occupational health advice. Emphasis on diagnostics and phlebotomy having appropriate clinical governance and follow-through within the hospital services.
V1.3	24/12/20	 Alert re UK variant with potential for higher transmission inserted and associated actions 14-day incidence trigger of 25/100,000 population removed for clarity due to current high incidence.

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Foreword

July 27th 2020

On 1th May, the National Public Health Emergency Response Team (NPHET) approved the interim guidance scheduled care pathway for acute operations which included risk assessment of patients in advance of hospital attendance/ admission and SARS-CoV-2 testing for patients to undergo aerosol generating procedures or an inpatient stay. Since then the incidence of COVID-19 has fluctuated. At the time of issue of version 1.3 of this guidance it is at a high level.

Since May, data has been gathered on the impact of the risk assessment questionnaire and testing in mitigating the risk of patients being admitted with undetected COVID-19. There is now sufficient data to inform us that, a pathway that includes minimizing exposure risk through self-isolating as far as is practical and a structured risk assessment questionnaire is an effective method of risk mitigation. In addition, false positive results may be problematic, and the logistics of getting the test result in a timely fashion can become a barrier to accessing healthcare as opposed to an enabler of safe healthcare. Hospitals are generally encouraged to determine the risk level that applies at a particular time using data provided centrally and, based on local incidence, to decide whether testing is required to be part of the patient pathway.

However, at the present time given the high incidence testing is advised for all patients who are expected to require overnight stay. It is expected that incidence will decline as vaccination is rolled out and it may then be appropriate to reassess this approach.

Risk assessment in relation the requirement for testing should be done in a regular and structured way with a multidisciplinary team including infection prevention and control, the perioperative clinical director and management with clear communications lines. The data used to inform this decision would include the HPSC 14-day epidemiology report, Health Atlas COVID cases map and hospital local epidemiological information.

This guidance should not supersede clinical judgment and should be adapted to local or specialty requirements under the governance of the local risk assessment team.

Dr. Vida Hamilton NCAGL- Acute Operations

Executive Summary

Maintaining functional surgical services is a core responsibility of a health service and critical to public health in our country. Surgery has many vital benefits: alleviation of pain and other symptoms; treatment of injury; improvement of quality of life; curing disease and prolonging life. Everything possible must be done to ensure that patients have access to the surgery they need in a timely fashion.

Delivering surgical services in a safe manner in an environment where COVID-19 is endemic is challenging. High level guidance on reducing risks associated with COVID-19 has been produced nationally. The current document provides more specific guidance to assist hospitals in the implementation of safe pathways of care for patients undergoing scheduled surgery.

The current situation is characterized by rapid change as we learn from experience in Ireland and abroad. Working together, we must respond to the challenge to build a system of surgical care that is responsive, safe, efficient and effective.

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Definitions of Terms

COVID-19 testing:	A laboratory test for SARS-CoV-2 RNA. The testing should be PCR for RNA, not serology for antibodies. If testing is required, swabbing should take place within three days prior to admission, the results of which must be available prior to admission.	
COVID-19 risk assessment	A series of questions designed to assess symptoms or exposure to COVID-19, these maybe in the form of a questionnaire, telephone or virtual health assessment.	
	COVID assessment needs to take place;	
	• virtually at 14 days prior to admission/procedure	
	• virtually 7 days prior to admission/procedure (where	
	practical)	
	• within three days prior to any hospital attendance	
	on arrival at the hospital	
Minimising exposure risk	 Minimising exposure risk is achieved by limiting interactions with individuals outside of a person's household and good infection prevention and control practices. The purpose of minimising exposure risk as much as possible in the two weeks prior to scheduled surgery is to minimise the risk of acquiring COVID-19 in the community. Testing for SARS-CoV-2 (where appropriate), only informs that the virus cannot be detected on that particular day but does not guarantee that the patient is not incubating the virus. Minimising the exposure risk (cocooning as much as practicable) reduces the risk of a patient having a procedure with undetected COVID-19 which may be associated with a worse outcome or complications. 	
	In this regard, it is a patient safety strategy. It also reduces the risk of exposure of healthcare workers to undetected COVID-19. More details can be found at: <u>https://www2.hse.ie/conditions/coronavirus/cocooning.html</u>	
Non-COVID	For patients who have undergone assessment for COVID-19 and	
pathway	 who: have not shown any signs or symptoms of COVID-19 in the last 14 days 	

	 have not been identified as a COVID-19 contact 	
	AND as indicated,	
	 have had a 'virus not detected' result on a sample taken within the three days prior to attendance 	
Risk Designation	Due to high community incidence of SARS-CoV-2	
	TESTING OF ALL PATIENTS WHO ARE EXPECTED TO REQUIRE OVERNIGHT STAY IS REQUIRED	
	TESTING OF ALL DAY CASES UNDERGOING AEROSOL GENERATING PROCEDURES IS REQUIRED	
	TESTING OF ALL PATIENTS WHO HAVE ARRIVED FROM GREAT BRITAIIN IN THE PREVIOUS 14 DAYS IS REQUIRED, IF THEIR PROCEDURE CAN NOT BE DEFERRED.	
	All patients should undergo a structured risk assessment prior to admission. This must include travel history and patients who have travelled from Great Britain (England, Scotland or Wales) within 14 days should have planned procedures deferred until 14 days have elapsed where that is clinically safe.	
	For planned time-dependent surgery, clinical judgment should be used and consultation with an Infectious Disease or Clinical Microbiology Specialist.	
	The hospital testing policy, in line with this guidance, will be under the governance of the hospital or hospital group COVID preparedness committee (or equivalent). This policy will also be informed by testing capacity, recognizing that the testing of symptomatic individuals and close contacts takes priority.	
Virtual clinic:	This refers to a method of clinical review that can either be by telephone or video, where the patient does not attend the clinical setting in person. An information technology platform can be used which allows for video interaction between health care worker and patient. It is imperative to document the platform used in the patients' clinical notes and that consent has been obtained for this type of consultation. As with face to face clinics, for required diagnostics including phlebotomy and SARS-CoV-2 testing, it is essential to ensure patient follow up has appropriate clinical governance and follow-through within the hospital services. For more information on virtual clinic operation and governance, please visit the	
	link <u>here</u>	

Purpose

This document will act as guidance for healthcare managers and staff to deliver care to patients in the peri-operative setting during and after the COVID-19 pandemic.

Scope

This guidance document applies to:

- Non-COVID-19 adult patients undergoing scheduled surgery in the operating departments
- All patients receiving general, regional, local anaesthesia or sedation
- All HCW within the peri-operative pathway

Introduction

Restoration of elective activity will be guided by avoiding harm and mitigating risk of deferral of procedure or services in line with clinical guidelines, local outbreaks, and appropriate use of infection prevention and control measures such as hand hygiene, social distancing, respiratory etiquette and appropriate use and supply of Personal Protective Equipment (PPE). This will be based on consultation with the patient and clinical decisions.

There should be clear prioritisation protocols that reflect local and national needs, alongside availability of local resources. The National Clinical Programme for Surgery has developed clinical guidance for surgeons on prioritisation of urgent scheduled surgical conditions, which can be accessed at the RCSI website <u>here.</u>

Scheduling modifications will be organized in order to increase hospital capacity, including extending hours of elective surgery later into the evening and on the weekends.

It is expected that surgeons will work with hospitals and patients to prioritise their patients' needs for surgery, accounting for risk factors and co-morbidities, while having regard also for the safety and availability of health care workers and hospital facilities. The professional judgment of surgeons can be relied upon to balance risk and to prioritise their patients.

Resumption of scheduled care within the hospital setting must occur in a manner which optimises patient care while minimizing risks to the public, to healthcare staff, and to the wider health service. A key challenge will be in maintaining adequate capacity to deal with a potential resurgence of COVID-19 cases (HIQA, 18/06/2020)¹.

Hospitals should maintain a focus on clinically led pathway improvements / redesign to ensure that patients who benefit from hospital attendance have access to services while eliminating unnecessary hospital attendances and further reduce risks for patients requiring hospital care and treatment. In addition, audits of process and outcomes should be established within each unit before starting non-urgent surgery and a management team should be established that will review cases with adverse outcomes.

The risk of undiagnosed COVID-19 in patients presenting to hospitals for scheduled surgery was ill-understood in the early phases of the pandemic, so data was collected to inform future decision making. An Irish series of 1608 patients undergoing scheduled surgery prior to the end of the lockdown period were screened preoperatively using a COVID-19 questionnaire only (without addition of a COVID-19 PCR swab). There was a low incidence of post-operative COVID-19 PCR (1.05%) or clinical diagnosis (0.93%) observed in this cohort. Post-operative admission to ITU for any reason was low (1.36%) as was 30 day mortality (0.56%). The questionnaire-only approach compared favorably to other screening strategies, especially in an environment where COVID-19 incidence is low.

It will be vital to share information on good practice, problems and complications as quickly as possible without the need to await peer reviewed publication.

As outlined by the World Health Organisation (WHO) in their document 'Maintaining essential health services: operational guidance for the COVID-19 context' which was published on 1st June 2020²;

¹ Resurgence of COVID-19 cases (HIQA, 18/06/2020)

² Maintaining essential health services: operational guidance for the COVID-19 context (WHO)

"Countries are making difficult decisions to balance the demands of responding directly to the COVID-19 pandemic with the need to maintain the delivery of other essential health services. Establishing safe and effective patient flow (including screening for COVID-19, triage and targeted referral) remains critical at all levels (WHO 2020)³.

In response to the COVID-19 pandemic, scheduled surgical services were suspended nationwide to support the management and delivery of care to COVID-19 patients. Service reconfiguration and financial investment will be required in order to adhere to national infection prevention and control and prevention guidelines and Public Health advice. Surgical services must now adapt existing delivery models for scheduled surgical services for non-COVID care.

This resumption of services requires a collaborative approach between all stakeholders within the perioperative clinical governance structure.

This document provides principles, recommendations and key considerations in order to facilitate the safe resumption of scheduled surgery. Some of these adaptations are flexible, depending on location and community incidence and will flex over time, other adaptations will continue for a period and those that are found to be safe, efficient and effective may become routine in post-pandemic practice.

The National Cancer Control Programme (NCCP) has issued separate guidance for medical professionals for both surgical oncology and testing for COVID-19 in asymptomatic patients undergoing elective cancer surgery in response to the current novel coronavirus pandemic. These guidelines can be accessed <u>here.</u> The patient NCCP patient pathway for admission for scheduled cancer surgery during the COVID-19 pandemic is outlined in Appendix 3.

Maintaining a scheduled surgical service will require significant changes in hospitals. Patients undergoing scheduled surgery will need new guidance on how to prepare for surgery and hospitals must provide a separate, segregated pathway for these patients throughout their surgical journey to ensure they remain as safe as is practically possible. This means new

³ Establishing safe and effective patient flow (WHO 2020)

arrangements from the time of admission to the time of discharge and the provision of separate ring-fenced wards for the exclusive use of patients undergoing scheduled surgery.

This document is developed by The National Clinical Programme for Anaesthesia (NCPA), The National Clinical Programme for Surgery (NCPS), The National Clinical Programme in Trauma & Orthopaedic Surgery (NCP TOS), and Dr Vida Hamilton, National Clinical Advisor and Group Lead (NCAGL) for Acute Hospitals, in association with the Health Protection Surveillance Centre and provides guidance and key considerations in order to resume and maintain surgical services in the context of COVID-19.

High Level Principles for Patients/Staff:

- Capacity will need to scale up and down in response to continued COVID-19 demand and an assumed return of acute surgery/trauma demand. There should be a recovery management team in place (with multi-professional and multi-disciplinary clinical input), to provide coordination and oversight of relevant policies and communications at a local level
- 2. Healthcare facilities used for surgery should have the appropriate multi-disciplinary expertise to deliver the complexity of care required
- As far as practically possible, there should be strict separation of scheduled care facilities from unscheduled surgery facilities. It is important to note that ring-fenced beds remain an important principle to reduce risk arising from all healthcare-associated infections
- 4. For specific orthopaedic procedures, consideration should be given to using the existing standalone hospitals to deliver care.
- 5. Scheduling modifications to increase hospital capacity, including extending hours of scheduled surgery later into the evening and on the weekends should be considered.
- 6. Preoperative COVID-19 assessment questionnaire and as required, COVID-19 testing should be carried out within the three days prior to the point of admission to enable proper planning. If practical, consideration could be given to having a standby list of potentially suitable patients in the event a procedure was cancelled due to a positive test.

- Scheduled surgery also requires careful planning to ensure consistent seven-day care and arrangement for in-hospital and post-discharge rehabilitation. Such planning should happen prior to admission and should prioritise short hospital stay.
- 8. Patients returning from Great Britain should have planned admissions deferred until 14days have elapsed and that they have been symptom-free throughout this period provided this is clinically safe. If a procedure is required during that time testing should be performed in the 3 days prior to the procedure even if testing would not be required for similar patients without a similar travel history.

Chapter 1: Pre-Admission Unit Services

1.1 Background

Pre-operative assessment allows the opportunity to identify existing comorbidities, carry out required investigations and help ensure all patients are in optimum health when presenting for surgery. This requires a collaborative approach with multidisciplinary teams within the perioperative clinical governance structure (NCPA, 2014)⁴.

As with face to face clinics, for required diagnostics including phlebotomy and SARS-CoV-2 testing, it is essential to ensure patient follow up has appropriate clinical governance and follow-through within the hospital services.

Cancellation of scheduled surgery may occur for many reasons, including the COVID-19 pandemic. The risks and benefits of carrying out a procedure in the current climate should be explained to each patient at initial appointment when the decision to operate is discussed. This allows the patient the opportunity to make an informed decision and to understand that there is no guarantee that their procedure will be carried out on the proposed date and that such decisions are dependent on hospital prioritisation. In addition, possible reasons for further cancellation/postponement should be outlined to each patient (e.g. COVID-19 incidence, increase in COVID-19 patients attending hospital, increase in critical care bed occupancy, road map for recovery phases, decreased bed capacity and the possibility of further investigations being required following pre-operative assessment), to ensure the patient is in optimum health

⁴ Perioperative clinical governance structure (NCPA, 2014)

prior to procedure, or any issues that may arise on day of scheduled surgery. This information should be reinforced at initial pre-operative assessment appointment.

1.2 Pre-Admission Unit (PAU) Recommendations

- Hospitals should identify a prioritisation list of patients for pre-operative assessment from the various surgical specialties available in the hospital. This should include a list of their proposed activity divided into new patient additions and patients who may have been previously assessed. This will enable timely pre-assessment of patients who can have their surgery completed within the available limits
- Given the imposed physical restrictions that we have experienced during lockdown, patients may have become physically deconditioned; to optimise their recovery, consideration should be given to a pre-operative exercise programme, we recommend the use of Joint Schools (HSE, 2015)
- An estimate of available operating theatre session times will also have to be provided to
 establish what can be scheduled in the present COVID-19 era. This available resource
 should be matched to the number of patients that require pre assessment
- In the absence of electronic health record, patient's medical notes must be available for all appointments
- During the COVID-19 era, it will be important to know the current address of the patient and to confirm that this is where they will be residing in the pre-attendance period. This will support the utilisation of the risk designation
- Local protocols should be established to allow for sharing of records between hospitals. This will assist in facilitating the option for a patient to have pre-operative assessment conducted by staff in a local site and surgery carried out in a different site, thus helping to reduce travel in current restrictions. If a patient resides in a residential care facility (RCF) then the hospital should establish if there is COVID-19 transmission in the RCF and if so, surgery should generally be deferred until such time that there have been no new cases of COVID-19 in the RCF for 14 days, if clinically safe. If a procedure is required during that time testing should be performed in the 3 days prior to the procedure even if testing would not generally be required for similar patients not exposed to an outbreak in a RCF.

- If a patient's surgery is cancelled due to an outbreak within their RCF then communication should be made with the surgical team for appropriate follow up and management plan, this should be clearly documented in the patient record
- A review of patient notes, particularly where pre-assessment took place prior to COVID-19 pandemic should be carried out, as cancelled or deferred surgeries may lead to an expiration of pre-assessment
- Patients with expired pre-assessment should have re-assessment organized and this should be virtual where possible
- If a patient is required to attend in person, then COVID-19 assessment will need to be conducted over telephone three days prior to attendance
- There should be consideration of whether post-surgery facilities such as rehabilitation hospitals will be operational and able to support patients post-operatively. (Currently many rehabilitation hospitals are taking patients who have recovered from COVID-19 from acute hospitals. These individuals are no longer infectious to others so capacity is the only barrier to transfer).

1.3 Staffing in PAU

- In order for the safe and effective delivery of pre-assessment services, experienced staff must be returned from their redeployment as part of the COVID- 19 response
- If these recommendations require expansion of the role of the staff in PAU, education and training should be provided
- Local consideration to workforce may be required in order for these recommendations to be implemented
- Staff should be actively promoted to have the seasonal influenza vaccination

1.4 Virtual PAU Clinics

- Experienced PAU nurses should review referrals alongside patient's medical notes to decide on appropriate method for pre-assessment
- All pre-assessments should initially be undertaken virtually where appropriate to the needs of the patient
- Local sites should ensure accuracy of completed referral forms to PAU which is essential to deliver safe, effective and quality patient flow
- Patient education classes should be carried out virtually where possible

- Local agreement should be made on the expiration date of pre-assessment validity
- A virtual re assessment should be undertaken to ascertain if there are any health changes or concerns that have arisen or if any investigations need to be repeated in patient with expired pre-assessment
- In cases where a consultant anaesthesiologist review is required after preoperative assessment by the PAU nurse, this review initially should be carried out virtually where appropriate

1.5 Pre-operative Investigations

- Local protocols should be established to assess the requirement for tests/investigations to ensure only what is necessary is undertaken. National Institute for Health & Care Excellence (NICE) guidelines 2016⁵ provides recommendation for routine preoperative tests for elective surgery
- If a patient requires any tests/investigations, every effort will be made to have these done on a single patient visit to the hospital
- All investigations should be determined by patient's medical condition, co morbidities and procedure requirements

1.6 Patient Information for PAU

- Patients should be advised to download and use the HSE COVID tracker app
- Patients and their carers, should be actively encouraged to have the seasonal influenza vaccination

Patient information for Virtual Clinics

- All patients should be pre-assessed initially by virtual means (where practical and appropriate): by telephone, telehealth, or completion of a questionnaire to minimise attendance in hospital
- Patients should be sent an appointment with instructions and support on how to have a virtual consultation. Information for patients on virtual consultations is available to download from <u>here</u>

⁵ National Institute for Health & Care Excellence (NICE) Guidelines 2016

- The patient should be given the option of having a carer/relative present on all virtual appointments
- As with face to face clinics, for required diagnostics including phlebotomy and SARS-CoV-2 testing, it is essential to ensure patient follow up has appropriate clinical governance and follow-through within the hospital services.
- For more information on virtual clinic operation and governance, please visit the link here

Patient information when Attending in Person

- Infection prevention and control measure are important to reduce the risk of transmission. Patients should adhere to current guidance on the use of face coverings, respiratory hygiene, social distancing and good hand hygiene. Further information can be found <u>here</u>.
- If patients are required to attend in person, they should be sent an appointment time and, if they travel by private car they may be asked to wait in their car until just before their appointment time
- A patient information leaflet should accompany the appointment letter indicating any necessary instructions pertaining to the procedure. General patient information leaflets for patients attending hospital can be downloaded from <u>here.</u>
- Patients using public transport should wear a face covering and try to arrive at the clinic as close as possible to their allocated appointment time, as there will be limited seating available in waiting areas. It is recognized that this may not be possible in all cases if people are travelling from rural areas with a restricted public transport service
- If the patient has been brought by car, it is generally preferable that the accompanying adult remains in the car, but it is recognised that this may not always be possible. No children are to accompany individuals for procedures
- Patients and accompanying adult should be provided with the opportunity to clean their hands using alcohol based hand rub when entering hospital/clinic or after touching face covering.
- If there is a requirement for the patient to be accompanied into the clinic/unit, the accompanying adult must not have any signs or symptoms of COVID-19 or have had a risk of exposure. They may be asked for their contact details and asked to leave the

hospital until such time as the patient can be collected when the appointment is finished

- In line with the National Public Health Emergency Team (NPHET) recommendations
 patients should be reminded to wear a cloth face covering unless they are unable to
 tolerate this. If they do not have a cloth face covering they should be provided with a
 facemask at reception/registration
- If patients are unable to tolerate use of a cloth face covering or mask it may help to reduce risk if they are able to wear a visor suitable for use in healthcare that extends from above the eye to below the chin and folds round from ear to ear

1.7 COVID-19 Risk assessment in PAU

Patients who are required to attend PAU in person should have a risk assessment for COVID-19 symptoms carried out within three days prior to attendance.

1.8 Social Distancing in PAU

- PAU waiting areas and assessment room should adhere to national guidelines on social distancing
- Adherence to national guidelines on social distancing may require staggered scheduling of in hospital appointments to avoid crowds gathering in excess of waiting area capacity
- PAU assessment and waiting rooms may require reorganisation and reconfiguration of or transfer of unit to another area within the hospital to meet national guidelines on social distancing

1.10 Personal Protective Equipment (PPE) in PAU

- Surgical masks should be worn by healthcare workers when they are providing care to people and not able to maintain the national recommendation on social distancing regardless of the COVID-19 status of the person
- Surgical masks should be worn by all healthcare workers for all encounters, of 15 minutes or more, with other healthcare workers in the workplace where workers are not able to maintain the National Recommendation on Social Distancing (HPSC, 15/05/2020)⁶

⁶ National Recommendation on Social Distancing (HPSC, 15/05/2020)

• Even when the above conditions do not apply, surgical masks should be worn by healthcare workers in busy public areas of the building.

1.11 Pre-Attendance Work Up

Please refer to the HPSC link for a list of the recognized Aerosol Generating Procedures (AGP's)

Appendix 2: Pre Admission COVID-19 Assessment and Testing



*Some local variation may occur to account for bank holiday and specialty requirements and these should be agreed at the COVID-19 committee.

** Some local variation may occur and these should be agreed at the COVID-19 committee.

1.12 Requirements prior to Day Case Non Aerosol Generating Procedure

- Once the patient has been deemed ready to undergo a proposed procedure, a member of staff must inform the patient of their admission date
- COVID-19 Risk assessment must be carried out within the three days prior to admission
- COVID-19 Risk assessment must be repeated on the day of surgery prior to the procedure
- Testing, if required, must be carried out within 3 days prior to admission by the hospital (see section 2.4). The logistics of this process may need to worked out locally for each hospital site
- 1.13 Requirements for Inpatient stay and Day case with Aerosol Generating Procedure associated with an increased risk of infection

- Once the patient has been deemed ready to undergo a proposed inpatient procedure, a member of staff must inform the patient of their admission date and the requirement to restrict their movements to minimise their exposure risk for 14 days prior to surgery. They should also be issued with, or directed to the patient information on attending hospital as outlined in Section 1.6
- COVID-19 risk assessment must be carried out within the 3 days prior to admission
- Testing is must be carried out within 3 days prior to admission by the hospital (see section 2.4.
- Sampling and testing for COVID-19 may be carried out elsewhere, but COVID testing results must be available prior to patient admission (Please refer to *note above for details of patients who have already had laboratory confirmed COVID-19)
- Local protocol outlining the pathway for testing must be established. It must detail where COVID-19 testing will be performed, by whom and how these results will be communicated to the team and how the team will communicate with the patient. This protocol must also accommodate the return of test results for scheduled surgery following the weekend and a bank holiday
- Fourteen days prior to admission the patient should be telephoned to confirm that they
 will follow advice on minimising their exposure risk and to confirm they have not been
 exposed to COVID-19 within their social circle and have currently have no clinical
 features of COVID-19
- Seven days prior to admission the patient, if practical and where resources are available, the patient should be telephoned to confirm that they are continuing to follow the advice on minimising their exposure risk and to confirm they have not been exposed to COVID-19 within their social circle and currently have no clinical features of COVID-19
- COVID-19 risk assessment must be repeated on the day of surgery prior to the procedure
- Following discharge, infection status should be ascertained 2 weeks post discharge
- The National Clinical Programme in Surgery published a Laparoscopic Cholecystectomy pathway (2015). The National Clinical Programme for Surgery has categorized this as an AGP. A copy is provided to provide an illustration of a AGP Pathway in the COVID-19 era. (See appendix 1)

Chapter 2: COVID-19 testing prior to scheduled admission

2.1 Background

In this iteration of the guidance, due to the high community incidence of COVID-19 and associated increased risk of outbreak, the testing of all inpatient stays and day cases requiring AGPs associated with an increased risk of infection is required.

Patients returning from Great Britain should have planned admissions deferred until 14-days have elapsed and that they have been symptom-free throughout this period provided this is clinically safe. If a procedure is required during that time testing should be performed in the 3 days prior to the procedure even if testing would not be required for similar patients without a similar travel history.

Specific guidance for cancer surgery is outlined in section 2.5

It is essential to ensure that patient SARS-CoV-2 testing occurs and has appropriate clinical governance and follow-through within hospital services.

- Each hospital should have a multidisciplinary team with representation from clinical leads in microbiology /ID/ IPC and include the peri-operative clinical director with representation from management and nursing that will govern the implementation of this guideline.
- In the event that testing capacity is unable to meet demand, clinical prioritisation should be implemented as guided by the hospital or HG COVID-19 committee or equivalent.

2.2 Status High risk

Due to the current high incidence of SARS-Co-V in the community:

- All patients should have a COVID-19 risk assessment carried out
- It is recommended that all patients have pre-admission SARS-CoV-2 testing within the 3 days prior to admission. (Local adaptions with respect to timing may have to apply to accommodate capacity).

- Patients should be specifically advised to restrict their movements to minimise their exposure risk between having their pre-procedure SARS-CoV-2 test and coming into hospital for their procedure
- If surgery is delayed but is carried out within 24 hours of the scheduled time, then the SARS-CoV-2 test remains valid
- If surgery delayed and the patient discharged, then the test will need to be repeated if the interval between testing and rescheduled admission is more than 3 days
- If a situation arises where pre-procedure testing was indicated but was not carried out, or the result is not available, these cases should be risk assessed on a case-by-case basis to determine if surgery can go ahead and whether PPE needs to be escalated to that of a COVID-19 unknown case.
- Patients from the community who had confirmed COVID-19 that did not need hospital admission, and who are 10 days or more post onset of symptoms and with no fever for the last five days, are regarded as non-infectious. For patients from residential care settings, and those who were hospitalized for COVID-19 but discharged and require early outpatient review, they are regarded as no longer infectious 14 days post onset of symptoms and with no fever for the last five days. Repeat testing is generally not appropriate in people with a previous confirmed diagnosis of COVID-19 during the 12 weeks after diagnosis unless there is a specific clinical indication. If there is a specific concern, please discuss the patient with a Consultant Microbiologist or Infectious Disease Physician.
- Patients returning from Great Britain should have planned admissions deferred until 14days have elapsed and that they have been symptom-free throughout this period provided this is clinically safe. If a procedure is required during that time testing should be performed in the 3 days prior to the procedure even if testing would not be required for similar patients without a similar travel history.

2.3 Elective Cancer Surgery

All cancer patients undergoing elective surgery should have an RT-PCR test for SARS-CoV-2 within 3 days prior to admission. The National Cancer Control Programme has issued separate guidance for Medical Professionals for testing for SARS-CoV-2 in asymptomatic patients undergoing elective cancer surgery in response to the current novel coronavirus pandemic.

These guidelines can be accessed <u>here</u>. The patient NCCP patient pathway for admission for scheduled cancer surgery during the COVID-19 pandemic is outlined in Appendix 3.

Chapter 3: Day of surgery admission (DOSA) in COVID-19 era

3.1 Background

A Day of Surgery Admission or DOSA refers to an elective, stay-case, surgical patient who is admitted on the day of their surgical procedure, all necessary work-up having been carried out prior to admission. It does not include day cases or minor operations. The ability of an institution to provide DOSA for multi-day stay elective surgery patients is dependent upon maximising quality and efficiency in pre-operative patient management and hospital bed management (NCPS, 2011)⁷

During the Orthopaedic Prospective Funding pilot in 2011–2013, DOSA rates increased from practically zero to over 70% in the 12 orthopaedic hospitals participating in the pilot (case mix unit review, 2012), with a subsequent reduction in average length of stay (AvLoS). Since then the models of care for Elective surgery (NCPS, 2013)⁸, Pre-Admission units (NCPA, 2014)⁹ and Trauma and Orthopaedic Surgery (NCP TOS 2015)¹⁰ all advocate for the concept of admitting a patient on the morning of surgery, to a dedicated day of surgery admission area.

DOSA patients must have appropriate pre-admission assessment and discharge planning arrangements as this avoids unnecessary same day cancellations. DOSA provides an increased level of patient satisfaction and outcomes as well as an increase in theatre productivity and has produced significant savings on bed days. It is now a routine part of the surgical care pathway.

Admission on the day of surgery in the COVID-19 era is now more important to limit the total in-patient journey.

⁷ Pre-operative patient management and hospital bed management (NCPS, 2011)

⁸ Models of care for Elective surgery (NCPS, 2013

⁹ Pre-Admission units (NCPA, 2014)

¹⁰ Trauma and Orthopaedic Surgery (NCP TOS 2015)

Patients returning from Great Britain should have day surgery deferred until 14-days have elapsed and that they have been symptom-free throughout this period provided this is clinically safe. If a procedure is required during that time testing should be performed in the 3 days prior to the procedure even if testing would not be required for similar patients without a similar travel history.

3.2 Day of Surgery Admission area

- A dedicated area within the hospital should be allocated for patients to be admitted on the day of surgery. This may be an area of the pre admission unit, an area of the elective ward or a separate area entirely
- The 'DOSA area' must adhere to national guidelines regarding social distancing
- All patients admitted on the day of surgery must have followed the 'pre-admission' protocol, including the COVID-19 assessment questionnaire
- Patients, for admission and for day case with AGPs, must have had a pre-procedure SARS-CoV-2 RNA PCR test performed within the three days prior to attendance at the 'DOSA area' and the result indicates that SARS-CoV-2 RNA has not been detected
- A specific time for attendance should be given to the patient in advance to assist with social distancing
- If patients have travelled by car, they should wait in the car until just before their appointment time
- Patients and accompanying adult should wear a face covering in public spaces unless they are unable to tolerate this. They will be provided a surgical mask if they do not have one. Should the face covering become wet or soiled a replacement will be offered. Patients should be encouraged to avoid touching the face covering or face.
- If patients are unable to tolerate use of a cloth face covering or mask it may help to reduce risk if they are able to wear a visor suitable for use in healthcare that extends from above the eye to below the chin and folds round from ear to ear
- Patients and accompanying adult should be offered the opportunity to clean their hands with alcohol-based hand rub when entering hospital or after touching face covering
- If accompanied by a friend or relative, this person should wait outside of the hospital, where possible until it is confirmed that the procedure will go ahead as scheduled. If

they are required to accompany the person they should wear a cloth face covering or surgical mask.

- On arrival, the patient will undergo a repeat COVID-19 risk assessment. If any symptoms
 are present the patient should have appropriate assessment and if appropriate the
 procedure may be deferred
- If the procedure is deferred due to the patient having symptoms of COVID-19, then immediate care should be arranged and appropriate follow up from the surgical team must be arranged
- In the event of on day deferral of surgery, the patient must be advised to follow HSE guidelines on COVID-19 including contacting their GP
- Where possible, the patient should walk to theatre from DOSA
- Time needs to be allocated on the morning of surgery for a final anaesthesia review if required

3.3 Staffing in DOSA

All staff should complete a self-check for COVID-19 prior to starting work and absent themselves and inform their line-manager and occupational health if symptomatic. For occupational health guidance on COVID-19, please visit the HSE website <u>here</u>.

- Every effort should be made to reduce footfall of healthcare workers through DOSA to minimise patient exposure
- Health care workers moving between clinical areas should be avoided where possible
- Nurses working in DOSA must have relevant skills and knowledge specific to the clinical area i.e. pre-operative surgical patient assessment
- Daily access to clerical/administrative support for the DOSA unit is required. The amount of time will depend on the throughput of patients

3.4 Consent

Obtaining informed consent from patients should be performed in line with the Irish Medical Council Guide to Professional conduct & Ethics (1), the Code of Practice for Surgeons (2) and the HSE National Consent Policy (3).

During the COVID-19 pandemic, clinicians should consider, and provide patients with, information on how the pandemic might alter the risks and benefits of their treatment. The

situation regarding COVID-19 is evolving rapidly and to guide clinicians in their decision making the National Clinical Programme in Surgery, The National Clinical Programme in Trauma and Orthopaedic Surgery in conjunction with the RCSI have published guides to consenting in the COVID-19 situation (RCSI, 2020)¹¹

- Doctors consenting must know where to access the latest guidance and should be aware of up-to-date data on COVID-19 for the hospital where they operate to consent patients, as well as to risk assess each procedure.
- The infection prevention and control team (IPCT) and occupational health team should be sufficiently resourced to provide this information and any interpretive comment (e.g., community versus hospital-acquisition, newly-confirmed infection in patients and staff) in real-time, with onward dissemination of information by Hospital Management so it is readily available to clinical staff to aid in consenting
- Doctors consenting patients should refer to RCSI guidance on consenting in COVID-19 era

3.5 Personal Protective Equipment in DOSA

- Surgical masks should be worn by healthcare workers when they are providing care to people and not able to maintain the national recommendation on social distancing regardless of the COVID-19 status of the person
- Surgical masks should be worn by all healthcare workers for all encounters of 15 minutes or more, with other healthcare workers in the workplace where workers are not able to maintain the national recommendation on social distancing (NPHET, 15/05/2020)
- Even when the above conditions do not apply, surgical masks should be worn by healthcare workers in busy public areas of the building.
- It is important that each patient's infection or colonisation status is incorporated into every evaluation and not limited to COVID-19, for example patients for whom transmission-based precautions, such as contact precautions are required because of carriage of antimicrobial resistant organisms (e.g., MRSA, CPE, VRE)

¹¹ https://www.rcsi.com/dublin/coronavirus/surgical-practice/clinical-guidance-for-surgeons

3.6 Social distancing in DOSA

- DOSA waiting areas and assessment room must adhere to national Infection Prevention and Control guidelines on social distancing
- Adherence to national guidelines on social distancing may require staggered appointment times for attendance
- DOSA areas may require reorganisation and reconfiguration of or transfer of unit to another area within the hospital to meet national guidelines on social distancing
- Congestion in DOSA must be avoided, therefore timing of patient flow requires careful monitoring and managing to adhere to national guidelines on social distancing
- At all times unnecessary footfall in operating departments must be minimised

Chapter 4: Operating Theatre

4.1 Operating department in a COVID-19 era

Scheduled operations were cancelled nationwide in response to the COVID-19 pandemic, for a number of months in some cases. Each hospital must have a robust system in place, whereby national and local surveillance data is readily available and hospital management teams, in collaboration with multi-disciplinary team need to monitor the national and local COVID-19 rates and use this information to determine when scheduled admission can incrementally recommence in their locality.

- The principles of routine infection prevention and control during scheduled surgery should be strictly adhered to, including avoidance of unnecessary entry and exit from the operating theatre during surgery
- The number of people in the theatre should be limited to those required for clinical or education purposes
- Strict security measures are required at entrances to operating department to prevent unauthorised access

4.2 Prioritisation, Capacity and Scheduling

Careful evaluation of the likely throughput and factors affecting successful surgery are needed in order to plan effective delivery of scheduled surgical services.

• Resumption of scheduled surgery requires a gradual approach in each hospital agreeing a phased strategy in opening operating departments

- Review of patient flow through the operating department will be required on an ongoing basis
- Scheduling modifications to increase theatre capacity, including extending hours of elective surgery later into the evening and on the weekends should be considered
- Many operating department have allocated space that has been reconfigured as critical care areas in the COVID-19 response, it is essential that these areas are available to support the resumption of surgery and ensure efficient patient flow. If these areas are unable to be returned at present due to critical care occupancy rates then scheduling needs to reflect a reduction in capacity
- In the event of further surge requiring an expansion in critical care capacity and utilisation of operating department areas, this will reduce capacity and impact the provision of surgical services
- Communication to waiting list patients in each hospital regarding the local situation is essential
- Communication to GP's of changes in patient pathways and variation in local practice as a result of changing local of COVID-19 is essential
- Pathways should be implemented to allow General Practitioners contact the surgical/orthopaedic service if their patient's condition deteriorates or red flag symptoms occur
- Pathways must also be in place that allow the post elective care patient attend for acute review via an alternate pathway to ED i.e. ASAU
- Given the potential risks associated with carrying out elective surgery in an uncertain environment, patients must be made aware of conservative self-management options available to them compared to operative intervention

4.3 Staffing and skill mix in the operating department

- In order for the safe and effective delivery of operating services, experienced staff may be required to return from their redeployment as part of the COVID-19 response, according to local needs
- Theatre teams should be allocated to the care of non-COVID-19 patients for a whole working session and should not switch between non-COVID-19 and undifferentiated or confirmed infection cases where possible

• Should these recommendation require additional workforce, then local consideration needs to be given to this as appropriate

4.4 Availability of Interdependent Services

- Access to and availability of interdependent services e.g. critical care occupancy, / high dependency unit (HDU) bed availability, radiography, laboratory testing & processing, pathology etc. intra-operative spinal monitoring, sterile services is essential for the resumption and expansion of surgery
- Five working days' notice is required for loan sets, in order to ensure Sterile Services
 Departments have adequate time to process them, without endangering whole hospital
 decontamination capacity
- The blood transfusion committee should be notified of planned surgeries with a
 potential requirement for blood in advance, as part of the supply demand management
 process, acknowledging that scheduled surgeries may be subject to last minute
 cancellations

4.5 Social Distancing in the operating department

- Each operating department should carry out a review of their patient pathway to minimise risk and ensure social distancing can be maintained wherever practical
- All areas of the operating departments must adhere to national guidelines on social distancing where practical including office space, changing facilities and break rooms. This may require staggered start and break times
- Congestion in the operating department must be avoided, therefore timing of patient flow requires careful monitoring and managing to adhere to national guidelines on social distancing where practical
- Operating department may require reorganisation and reconfiguration to meet national guidelines on social distancing
- Consideration should be given to separate entry and exit points where possible if this is required to meet national guidance on social distancing
- At all times footfall in operating departments must be minimised

4.6 Documentation

 A review of the perioperative checklist documents should be conducted to include the COVID-19 risk assessment, requirement for COVID-19 testing and where indicated a SARS-CoV-2 PCR (COVID-19) test result

4.7 Personal Protective Equipment in the Operating Department

The Health Protection Surveillance Centre (2020) state that "As part of standard precautions it is the responsibility of every healthcare worker (HCW) to undertake a risk assessment PRIOR to performing a clinical care task as this will inform the level of infection prevention and control precautions needed including the choice of appropriate PPE for those who need to be present".

- Departments must ensure adequate availability of PPE
- Standard precautions should be continued as usual
- Surgical masks should be worn by healthcare workers when;
 - Care delivery where recommended social distancing is not possible, regardless of the COVID-19 status
 - All encounters with patient or staff, of 15 minutes or more, where recommended social distancing is not possible
- PPE required for carrying out an aerosol generating procedure associated with an increased risk of infection on a surgical patient who is not known or suspected to have a respiratory illness that is spread by the droplet or airborne route:
 - Surgical face mask, Type IIR,
 - Eye protection (only if risk of splashing)
 - Disposable plastic apron (or gown depending on procedure)
 - Disposable gloves
- Patients who have had a "SARS-CoV-2 RNA not detected" result from COVID-19 test and who have no symptoms are classed a low risk (HPSC, 15/05/2020)¹²
- If an accompanying person is deemed necessary to be with the patient in the holding bay/for induction of anaesthesia e.g. prison officers, patients with special needs, the appropriate PPE, and precautions should be used but with regard to the needs of patient

 some people including those with intellectual disability may not be able to cope with a carer being masked a visor or other pragmatic solution may be an alternative. Staff will

¹² Ref to be inserted

be required to escort this 'accompanying person' out of the department ensuring hand hygiene is adhered to

- The Safe Site Surgery briefing should be used as an opportunity for the whole theatre team to agree which category of PPE should be worn by whom and when
- Please be aware that surgical helmets are not protective against aerosols and droplets.
 We recommend that consideration be given to wearing a surgical mask underneath the hood (Parvizi et al. 2020)
- Based on an individual risk assessment, practitioners may consider use of a respirator mask in place of a surgical mask and a gown in place of a plastic apron for; Bag mask ventilation, intubation/extubation, LMA insertion/removal, fibre optic intubation
- For guidance on bronchoscopy, visit the HSE Repository at : <u>https://hse.drsteevenslibrary.ie/c.php?g=679077&p=4874377</u> or click <u>here</u>
- Naso-gastric tube insertion and airway insertion are not aerosol generating procedures (AGP) associated with an increased risk of infection.

4.8 Anaesthesia in operating department

- Local/regional anaesthesia should be the preferred choice to invasive airway management whenever possible for elective surgery in COVID-19 era
- Patients who have been risk assessed and have no exposure risk or symptoms and SARS-CoV-" test with 'virus not detected' can be anaesthetised in an anaesthetic room
- Patients, who have fulfilled the risk assessment questionnaire requirements and, with a COVID-19 test reported as SARS-CoV-2 RNA not detected, can be extubated in theatre or recovery
- The use of perspex barriers/boxes are not supported by evidence and are not recommended. If they are used the institution must have a documented process for decontamination between patients with appropriate traceability

4.9 Cleaning and decontaminating in operating department

- No supplementary cleaning is required in addition to standard cleaning procedures for a non-COVID-19 pathway
- There is no requirement to remove equipment from the operating theatre for patient on the non-COVID-19 pathway
- Perioperative staff should receive on-going education on the principles and standards for cleaning required in the operating department

4.10 Ventilation air changes in operating & anesthetic rooms

The ventilation system in the operating theatre suite has four main functions:

- 1. Dilution of bacterial contamination
- 2. Control of air movement within the theatre suite, such that the transfer of airborne bacteria from less clean to cleaner areas is minimised
- 3. Control of space temperature and humidity
- 4. To assist in the removal and dilution of waste anaesthetic gases
- Managers must ensure that plant is inspected, tested and validated by a competent person according to the relevant Health Technical Memorandum (HTM)
- Comprehensive records of ventilation systems performance, repair and maintenance must be maintained
- Positive pressure air ventilation systems in theatre should be used for surgical procedures on the non-COVID-19 pathway
- For patients on the non-COVID-19 pathway, there is no requirement for additional theatre downtime between cases, unless there is another infection diagnosis for which longer downtime is routinely indicated
- Patients should not have significant contact (for example in waiting areas or clinical spaces) with patients who have not had prior similar evaluation to minimise the risk that they are unintentionally exposed to patients with COVID-19

Chapter 5: Elective Surgical Beds

5.1 Background

The National Clinical Programme in their Elective surgical model of care 2013 discussed the separation of elective and emergency surgical care to improve quality of patient care and facilitate the effective use of facilities.

Furthermore, the Trauma and Orthopaedic surgery Model of Care (2015) outlines the importance of infection prevention and control in orthopaedic patients and recommended that orthopaedic patients should be cared for in designated orthopaedic wards.

Very early research on a small cohort shows that patients who contracted COVID-19 in the perioperative period had a high risk of pulmonary complications, a higher likelihood of requiring ITU care, had an increase in 30-day mortality (Lei *et al*, 2020. COVID Surg Collaborative, 2020). It

is therefore recommended that patients who have undergone the pre assessment process described in this document should be cohorted together to minimize the risk of intra hospital transmission.

It is now imperative that this strict separation of elective and emergency beds takes place to enable surgical services to be safely conducted in the COVID-19 era.

5.2 Ring Fenced Non-COVID-19 Surgical Beds

- The number of beds should be determined locally based on type of surgery being undertaken and AvLOS
- The beds should be equipped with piped oxygen and suction equipment
- The ward should remain open 24/7 for the post-operative stay of elective surgical patients
- The ward should be clearly marked and footfall of staff be reduced to a minimum
- The surgical elective bed stock must be protected should not be declared as open acute bed stock and not counted in HSE returns as such
- All patients must meet the admission criteria
- There must be executive agreement to protect the surgical bed capacity, including zero tolerance for elective surgical beds being used in 'escalation' on weekends or nights
- Failure to adhere to ring-fencing should be accompanied by suspending any elective surgical activity until cohorting of patient on the non-COVID-19 pathway can resume
- System of bed management should support short stay care
- Where possible, patients should walk to theatre from the designated elective surgical area

5.3 Admission criteria for Non-COVID-19 Ring Fenced Beds

- Patient must confirm that they have followed appropriate measures prior to admission to the greatest extent practical (minimising exposure risk, avoiding people with symptoms and have no symptoms on COVID-19 risk assessment)
- Patients must have either been determined as not requiring testing based on the risk assessment and local occurrence or must have provided a sample for testing for SARS-CoV-2 RNA taken within three days of surgery and reported as not detected
- Patient must be undergoing a surgical operation/procedure
• Patient must have followed an appropriate pre assessment route

5.4 Staffing in Scheduled Surgery Ring Fenced Area

- In order for the safe and effective delivery of scheduled surgical care, experienced staff may be required to return from their redeployment as part of the COVID-19 response, according to local needs
- Health care workers moving between clinical areas should be avoided where possible
- Every effort should be made to reduce footfall of healthcare workers through scheduled surgery ring fenced area to minimise patient exposure
- Nurses staffing scheduled surgery ring fenced area must have relevant skills and knowledge specific to the clinical area i.e. pre and post-operative surgical patient care
- An appropriate number of clerical staff should be only assigned to scheduled surgery to oversee the administration and smooth running of the ward
- A full complement of Health and Social Care Professionals (HSCP) must be available
- Staff should have had refresher training in Infection Prevention and Control including review of hand hygiene training, surgical scrub (for theatre) and standard precautions

5.5 Social Distancing in Scheduled Surgery Ring Fenced Area

- Scheduled surgery ring fenced area must adhere to national guidelines on social distancing this may require a review of bed spacing and capacity
- Scheduled surgery ring fenced area may require reorganisation and reconfiguration of or transfer of unit to another area within the hospital to meet national guidelines on social distancing
- Congestion in scheduled surgery ring fenced area must be avoided, therefore timing of patient flow requires careful monitoring and managing to adhere to national guidelines on social distancing
- At all times footfall in scheduled surgery ring fenced area must be minimized
- Clinical reviews should be staggered and planned to minimise footfall and adhere to national guidelines on social distancing, where social distancing isn't possible then surgical mask should be worn

5.6 Personal Protective Equipment in scheduled surgery ring fenced area

- Standard precautions should be continued as usual
- Surgical masks should be worn by healthcare workers when;

- Care delivery where recommended social distancing is not possible, regardless of the COVID-19 status
- All encounters with patient or staff, of 15 minutes or more, where recommended social distancing is not possible
- In the event of carrying out an aerosol generating procedure on a surgical patient who is not known or suspected to have a respiratory illness that is spread by the droplet or airborne route the following PPE is recommended
 - Surgical face mask, Type IIR
 - Eye protection (if splash risk)
 - Disposable plastic apron (or gown depending on procedure)
 - Disposable gloves

In the event of a post-op surgical patient experiencing a respiratory deterioration and requiring high flow oxygen/airvo type intervention, local policies should be in place as to where that treatment may be safely delivered and the appropriate PPE required, along with consideration as to whether testing for SARS-CoV-2 RNA is required to rule out hospital acquired/community acquired COVID-19 which was asymptomatic/incubating on admission. Treatment should not be delayed pending assessment or testing.

5.7 Visitor restrictions

- Visiting should be restricted
- Guidance on visiting in the acute hospital is available on the HPSC website at this link <u>https://www.hpsc.ie/a-</u>

z/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolgui dance/visitorsvisiting/

- Strictly controlled visitor access should be facilitated where appropriate to the needs of the patient
- Local visitation policy reflecting national guidance should be adhered to
- Where possible, electronic devices (tablets, smart speakers etc.) should be facilitated to allow patients social contact and support

Chapter 6: Discharge and surveillance

6.1 Background

When a patient has undergone an inpatient stay and surgical procedure, there should be a system of follow-up with the patient to ensure they have not been confirmed as having COVID-19 infection within 14 days of discharge from hospital and have not developed signs/symptoms or required antimicrobial therapy from their GP for surgical site infection within 30 days of their procedure date

6.2 Discharge from scheduled surgery ring fenced area

- Every effort should be made to adhere to getting patients discharged home by 11am.
- A summary of the patient's investigations and procedures must be given to the patient on discharge and a discharge letter sent to GP (by Healthlink where possible)
- A patient information leaflet should be provided on discharge and include a relevant contact point for unplanned care due to an unforeseen complication of the procedure e.g. G.P., a virtual clinic, the ASAU or review clinic in the absence of ASAU for clinical examination rather than attending an undifferentiated care pathway (ED)
- Patient to notify the hospital in the event they are confirmed to have COVID-19 infection within 14 days of discharge
- Local protocol should determine which cohort of patients are suitable for nurse-led discharge

6.3 Post discharge infection surveillance

- It is recommended that the patient is reviewed for infection, including COVID-19 and surgical site infection between 2 to 3 weeks post discharge
- This information so far as possible this should be collected virtually
- Local agreement should be made around 'who' collects post discharge infection information
- Any creation of surgical site infection surveillance services, should follow existing guidance on Surgical Site Infection (WHO 2016; Global guidelines on the prevention of surgical site infection, European SSI surveillance protocol 2017)

- Surgical infection rate data including COVID-19 and surgical site infection should be collected locally and reviewed on a regular basis
- If a patient has reported a post-operative infection then local protocols will apply
- The patient's post discharge infection status should be documented within the patient's clinical notes
- Appropriate review and follow up should be arranged following virtual consultation if infection present
- In the event of COVID-19 symptoms or confirmed COVID-19 infection within 14 days of discharge, then the patient must be advised to contact their GP for advice on follow-up and the local IPCT should be informed immediately, so the possibility of healthcareacquired infection can be investigated

6.4 Review Clinic

- For sites that do not have an ASAU then consideration should be given to a dedicated space suitable for a daily review clinic for review of scheduled inpatient and day case procedures who run into complications and need to avoid the Unscheduled (ED) route into services
- Clear governance agreements should be arranged locally for a review clinic including admission criteria
- If patients are required to attend in person, they should be sent an appointment time and reminded to adhere to government advice on using public transport
- If they have travelled by car they should be asked to wait in their car until just before the appointment time. If they have travelled by public transport, an appropriate area should be identified for them to wait.
- Where possible, patients using public transport should only arrive into the clinic at their allocated appointment time, as there will be limited seating available in waiting areas

Chapter 7: Staff Health & Wellbeing

- At the start of each day, all staff should complete a self-assessment for symptoms of COVID-19 to check that they do not currently have symptoms of COVID-19. For further information on occupational health, please click <u>here</u>.
- If symptoms develop during a shift, staff should immediately report to their line manager/person in charge. A local pathway should be established for management (including testing) of staff who develop symptoms while either on or off duty
- Records should be kept of any close and casual contacts of members of staff/patients/other by the line manager/person in charge to facilitate rapid contact tracing in the event of a positive test. Rapid testing pathways for COVID-19 should be used where available to expedite prompt contact tracing. Consider a sign-in log at entrance to departments
- Staff start times, break times and finish times should be staggered to avoid congestion in changing areas or staff rest rooms
- Adherence to National Social Distancing Guidelines should be maintained for any staff handover or briefings where practical (consider performing these in small groups rather than a single large group setting) If distance cannot be maintained see guidance on mask use
- All staff should be encouraged to have the seasonal influenza vaccine
- Consideration must be given to staff who have been providing care on COVID-19 wards including ICU. These staff members may have feelings of stress and fatigue and may require additional support

Glossary

AGP	Aerosol Generating Procedure
ASAU	Acute Surgical Assessment Unit
AvLOS	Average Length of Stay
CPE	Carbapenemase Producing Enterobacterales
DOSA	Day of Surgery Admissions
ED	Emergency Department
ECDC	European Centre for Disease Control
ERAS	Enhanced Recovery after Surgery
GP	General Practitioner
HCW	Healthcare Worker
HDU	High Dependency Unit
HPSC	Health Protection Surveillance Centre
НТМ	Health Technical Memorandum
HSE	Health Service Executive
HSCP	Health and Social Care Professionals
ITU	Intensive Therapy Unit
IPCT	Infection Prevention Control Team
MRSA	Meticillin Resistant Staphylococcus aureus
NAGP	Non Aerosol Generating Procedure
NCAGL	National Clinical Adviser and Group Lead
NCPA	National Clinical Programme in Anaesthesia
NCPS	National Clinical Programme in Surgery
NCPTOS	National Clinical Programme Trauma and Orthopaedic Surgery
NICE	National Institute for Health & Care Excellence
NPHET	National Public Health Emergency Team
PAU	Pre-admission unit
PPE	Personal Protective Equipment
PPG	Policy, Procedure, Guideline
RCF	Residential Care Facility
VRE	Vancomycin Resistant Entercocci
WHO	World Health Organisation

Appendices

Appendix 1 – Laparoscopic Cholecystectomy Pathway

For Laparoscopic Cholecystectomy Pathway, please click <u>here</u> and view under Stakeholder Consultation

Appendix 2: NCCP Patient pathway for admission for scheduled cancer surgery during the COVID-19 pandemic



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Review

This document has been collaboratively collated for health care professionals in practice, for those involved in the delivery of surgical care during the current COVID-19 epidemic. This document will be updated regularly over the coming months as policy changes.

Many of these resources are themselves dynamic and will change, update or disappear. Please contact us with other resources you think we should share and to let us know if there are any out of date or incorrect links (<u>surgeryprogramme@rcsi.ie</u>).

Knowledge is evolving rapidly and some of the advice may change or go out of date so crosscheck your sources if you are unsure.

References

Archer J, Ereidge S, Hosni S, Odeh A, (2020) *Mortality and pulmonary complications in patients undergoing surgery with perioperative SARS-CoV -2 Infection: an international cohort study*:*available from* <u>https://www.thelancet.com/action/showPdf?pii=S0140-6736%2820%2931182-X</u>

British Orthopaedic Society (2020) **Re-starting non-urgent trauma and orthopaedic care**: Full guidance available from <u>https://www.boa.ac.uk/uploads/assets/ee9cdbed-4427-458c-82d1075edb09945f/BOA-Guidance-for-restart-full-doc-final2.pdf</u>

Department of Health (2018) Framework for Safe Nurse Staffing and Skill Mix in General and Specialist Medical and Surgical Care Setting in Ireland available from: https://www.gov.ie/en/publication/2d1198-framework-for-safe-nurse-staffing-and-skillmix-in-general-and-speci/

European Centre for Disease Control: (2020) Coronavirus disease 2019 (COVID-19) in the EU/EEA and the UK – eleventh update: Resurgence of cases. Available from : https://www.ecdc.europa.eu/sites/default/files/documents/covid-19-rapid-riskassessment-20200810.pdf/ Accessed 24th August 2020.

Health Information and Quality Authority (18 June 2020) Evidence summary for care pathways support for the resumption of scheduled hospital care in the context of COVID-19.

Ref Day of Surgery Admission Casemix Ireland. (2012). Case Mix Unit Review of Prospective Funding December 2012.

Health Protection Surveillance Centre (2020) **"Appropriate use of PPE in healthcare** settings"_available from https://www.hpsc.ie/az/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolguidan ce/webinarresourcesforipc/_Accessed 16th May 2020

Health Service Executive (2013) *Model of Care for Elective Surgery* available from https://www.hse.ie/eng/services/publications/clinical-strategy-and-programmes/model-ofcare-for-elective-surgery.pdf

Health Service Executive (2014) *Model of Care for Pre Admission Units*. available from <u>https://www.hse.ie/eng/services/publications/clinical-strategy-and-</u> <u>programmes/anaesthesia-model-of-care-for-preadmission-units.pdf</u> Accessed 3rd May 2020

Health Service Executive (2019) *The National Consent Policy* available from <u>https://www.hse.ie/eng/about/who/qid/other-quality-improvement-programmes/consent/national-consent-policy-hse-v1-3-june-2019.pdf</u>

Health Service Executive (2020) "PPE guidance for Staff" available from

<u>https://healthservice.hse.ie/staff/news/coronavirus/prevent-the-spread-of-coronavirus-in-</u> the-workplace.html Accessed 14th May 2020

Lei S, Jiang F, Su W, Chen C, Chen J, Mei W, et al. Clinical characteristics and outcomes of patients undergoing surgeries during the incubation period of COVID-19 infection. EClinicalMedicine. 2020:100331.

Health Service Executive (2015) Model of care for trauma and Orthopaedic Surgery. Available from <u>https://www.hse.ie/eng/services/publications/clinical-strategy-and-programmes/national-model-of-care-for-trauma-and-orthopaedic-surgery-2015.pdf</u> <u>Accessed 20th June 2020</u>

Institute for Health & Care Excellence (NICE) guidelines 2016 *"Routine preoperative tests for elective surgery"* available from:

https://www.nice.org.uk/guidance/ng45/resources/routine-preoperative-tests-for-electivesurgery-1837454508997 _Accessed 6th May 2020

Parvizi et al. (2020) Current Concepts Review: Resuming Elective Orthopaedic Surgery During the COVID-19 Pandemic Guidelines Developed by the International Consensus Group (ICM), JBJS in press available online at: <u>https://journals.lww.com/jbjsjournal/Documents/P-</u> <u>FINAL-Parvizi.pdf</u>

Royal College of Surgeons in Ireland (2018) *Code of Practice for Surgeons* available from <u>http://rcsi.ie/files/surgery/docs/20180212115142</u> Code%20of%20Practice%20for%20Surge <u>ons%20.pdf</u>

Royal College of Surgeons in Ireland (2020) Consenting in the COVID situation: consenting support briefing document available from https://www.rcsi.com/dublin/coronavirus/surgical-practice/clinical-guidance-for-surgeons

The Medical Council(2019) *Guide to Professional Conduct for Registered Medical Practitioners* (8th Ed)available from <u>https://www.medicalcouncil.ie/news-and-</u> <u>publications/reports/guide-to-professional-conduct-and-ethics-8th-edition-2016-.pdf</u>

World Health Organisation(2016) Global Guidelines on the prevention of Surgical Site Infection available from : <u>https://www.who.int/gpsc/ssi-prevention-guidelines/en/</u> World Health Organisation (2020) *Maintaining essential health services: operational guidance for the COVID-19 available from* <u>https://www.who.int/publications/i/item/10665-</u> 332240

Useful links

https://www.hpsc.ie/a/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreven tionandcontrolguidance/webinarresourcesforipc/

https://www.hpsc.ie/az/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolguidance/aerosolgeneratingprocedures/AGPs%20for%20confirmed%20or%20possible%20COVID19.pdfhttps://www.hse.ie/eng/about/who/cspd/ncps/https://hselibra

ry.ie/wp-content/uploads/2020/05/Evidence-Summary-COVID-19-Laminar-Airflow-in-Operating-Theatres.pdf

(HSPC,15/05/2020) <u>https://healthservice.hse.ie/staff/news/coronavirus/prevent-the-spread-of-coronavirus-in-the-workplace.html</u>

<u>https://www.hpsc.ie/a-</u> z/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolguidan ce/webinarresourcesforipc/ https://www.who.int/infection-prevention/tools/surgical/SSI-surveillance-protocol.pdf

HSE COVID-19 - Clinical Guidance and Evidence

HSE https://hse.drsteevenslibrary.ie/Covid19V2/home