

Surgical outcomes in COVID-19 patients



Patient REDCap ID: _____

Month of operation in 2020: Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | not stated

Age: 0-4w | 4-52w | 1-9y | 10-16y | 17-19y | 20-29y | 30-39y | 40-49y | 50-59y | 60-69y | 70-79y | 80-89y | 90y+

Weight (children only): _____ Kg

Sex: Female | Male

ASA Grade: 1 | 2 | 3 | 4 | 5

BMI:

- | | |
|--|---|
| <input type="checkbox"/> Underweight (<18.5) | <input type="checkbox"/> Moderately obese (30-34.9) |
| <input type="checkbox"/> Normal/healthy weight (18.5-24.9) | <input type="checkbox"/> Severely obese (35-39.9) |
| <input type="checkbox"/> Overweight (25-29.9) | <input type="checkbox"/> Very severely obese (≥40) |

Comorbidities:

- | | |
|---|--|
| <input type="checkbox"/> Current smoker | <input type="checkbox"/> Dementia |
| <input type="checkbox"/> Asthma | <input type="checkbox"/> Diabetes Mellitus |
| <input type="checkbox"/> Cancer | <input type="checkbox"/> HIV infection |
| <input type="checkbox"/> Chronic Kidney Disease (Moderate/Severe) | <input type="checkbox"/> Hypertension |
| <input type="checkbox"/> COPD | <input type="checkbox"/> Myocardial Infarction |
| <input type="checkbox"/> Congenital abn (cardiac) | <input type="checkbox"/> Peripheral Vascular Disease |
| <input type="checkbox"/> Congenital abn (non cardiac) | <input type="checkbox"/> Stroke/TIA |
| <input type="checkbox"/> Congestive heart failure | <input type="checkbox"/> Other: _____ |

BCG/Tuberculosis(TB) status

Vaccine - <15yrs ago | Vaccine – 15>yrs ago | TB diagnosis <15yrs ago | TB diagnosis >15yrs ago | Close contact with individual with known TB <15yrs ago | Close contact with individual with known TB >15yrs ago | No previous BCG vaccine/TB exposure | BCG vaccination/TB exposure unknown

Urgency of surgery:

Immediate | Urgent | Expedited | Elective

Findings at admission:

- | | |
|---|--|
| <input type="checkbox"/> Abdominal pain | <input type="checkbox"/> Haemoptysis |
| <input type="checkbox"/> Dyspnoea | <input type="checkbox"/> Myalgia |
| <input type="checkbox"/> Cough | <input type="checkbox"/> Nausea/vomiting |
| <input type="checkbox"/> Diarrhoea | <input type="checkbox"/> Sputum |
| <input type="checkbox"/> Fatigue | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Fever >38C | |

Last available data from before surgery:

Resp rate: _____ rpm **Heart rate:** _____ bpm
Systolic BP: _____ mmHg **Diastolic BP:** _____ mmHg

Tests performed to investigate SARS-CoV-2 status:

	CT (neg)	CT (pos)	Swab (neg)	Swab (pos)
4-7 days prior surgery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1-3 days prior surgery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Day of surgery (preop)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
After surgery (during index admission)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
After discharge from index admission (within 30 days of surgery)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How was SARS-CoV-2 confirmed?

- Positive swab – result received before surgery
- Positive swab – result received after surgery
- CT scan of chest confirming COVID-19 – before surgery
- CT scan of chest confirming COVID-19 – after surgery
- Clinical diagnosis/chest X-Ray – before surgery
- Clinical diagnosis/chest X-Ray – after surgery

Pre-op investigations:

Haemoglobin: _____ g/L WCC: _____ 10⁹/L CRP: _____ mg/L

Pre-op x-ray:

- Not performed
- Yes- normal
- Yes- abnormal

Pre-op chest CT:

- Not performed
- Yes- normal
- Yes- consolidation
- Yes- ground glass opacity
- Yes- pulmonary infiltration
- Yes- other abnormality

Management

Time from admission to operation (pre-op delay)

<6 hrs | 6-23 hrs | 24-47 hrs | 48-71 hrs | 72+hrs

Primary organ/system operated: _____

Anaesthesia: Local | Regional | General

Surgical diagnosis: _____

Procedure completed: _____

Environment in which patient cared for:

Operative theatre: Designated COVID theatre | Designated non-COVID theatre | No designation for theatre
ITU: Designated COVID ITU area | Designated non-COVID ITU area | No designation for ITU
Postop ward: Designated COVID ward | Designated non-COVID ward | No designation for this ward

Treatment

Did patient receive NSAIDs?

No | Yes- before admission | Yes- after admission | Both

Patient received during index admission?

- | | |
|---|---|
| <input type="checkbox"/> Antibiotics | <input type="checkbox"/> IV Immunoglobulins |
| <input type="checkbox"/> Antivirals | <input type="checkbox"/> Interferon |
| <input type="checkbox"/> Quinine/derivative | <input type="checkbox"/> IL-6 blocker |
| <input type="checkbox"/> Corticosteroids | |

Antiviral (name & dose): _____

Corticosteroid (name & dose): _____

Renal dialysis during index admission?

No | Yes but not at 30 days after surgery | Yes and ongoing dialysis at 30 days after surgery

Pre-op respiratory support:

- | | |
|---------------------------------------|---|
| <input type="checkbox"/> None | <input type="checkbox"/> Non-invasive ventilation |
| <input type="checkbox"/> Low-flow O2 | <input type="checkbox"/> Invasive vent |
| <input type="checkbox"/> High-flow O2 | <input type="checkbox"/> ECMO |

Post-op respiratory support:

- | | |
|---------------------------------------|---|
| <input type="checkbox"/> None | <input type="checkbox"/> Non-invasive ventilation |
| <input type="checkbox"/> Low-flow O2 | <input type="checkbox"/> Invasive vent |
| <input type="checkbox"/> High-flow O2 | <input type="checkbox"/> ECMO |

Duration of post-op mechanical ventilation:

1-23h | 24-47h | 48-71h | 72-167h | 168h+

Outcomes

Mortality:
 Died (on table) Alive (in hospital)
 Died (on day 0-7) Alive (other hospital)
 Died on day 8-30 Alive (at rehab)
 Alive (at home)

Re-operation: Yes | No

Post-op ICU: No Unplanned from theatre
 Planned Unplanned from ward

Complications:

- | | |
|---|--|
| <input type="checkbox"/> Acute kidney injury | <input type="checkbox"/> Pneumonia |
| <input type="checkbox"/> Acute respiratory distress syndrome (ARDS) | <input type="checkbox"/> Pulmonary embolism |
| <input type="checkbox"/> Anastomotic leak | <input type="checkbox"/> Respiratory failure |
| <input type="checkbox"/> Bleeding req. transfusion | <input type="checkbox"/> Sepsis |
| <input type="checkbox"/> Cardiac arrest req. CPR | <input type="checkbox"/> Septic shock |
| <input type="checkbox"/> Coma for >24hr | <input type="checkbox"/> Stroke/TIA |
| <input type="checkbox"/> Deep Vein Thrombosis | <input type="checkbox"/> SSI superficial |
| <input type="checkbox"/> Graft/prosthesis/flap fail | <input type="checkbox"/> SSI deep |
| <input type="checkbox"/> Myocardial infraction | <input type="checkbox"/> SSI organ/space |
| | <input type="checkbox"/> Urinary tract infection |
| | <input type="checkbox"/> Wound dehiscence |

Total length of stay: _____ days