

Case Report Form CovidSurg-Cancer-Liver

NB: Additional data points may be required for specific cancer types



CovidSurg



Patient REDCap ID: _____

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+ Sex: Female | Male ASA Grade: _____

1 | 2 | 3 | 4 | 5. Weight (<52 weeks only): _____ kg

WHO/ECOG Performance status: 0 | 1 | 2 | 3 | 4

BMI:

- ☐ Underweight (<18.5)
- ☐ Normal/healthy weight (18.5-24.9)
- ☐ Overweight (25-29.9)
- ☐ Moderately obese (30-34.9)
- ☐ Severely obese (35-39.9)
- ☐ Very severely obese (≥40)

Comorbidities:

- ☐ Current smoker
- ☐ Asthma
- ☐ CKD (Moderate/Severe)
- ☐ COPD
- ☐ Congenital abn (cardiac)
- ☐ Congenital abn (non cardiac)
- ☐ Congestive heart failure
- ☐ Dementia
- ☐ Diabetes Mellitus
- ☐ Hypertension
- ☐ Myocardial Infarction
- ☐ Peripheral Vascular Dis
- ☐ Stroke/TIA
- ☐ Other: _____

Cancer-specific details:

Tumour type

- ☐ Peripheral cholangiocarcinoma
- ☐ Hilar cholangiocarcinoma
- ☐ Other: _____
- ☐ HCC
- ☐ Colorectal liver mets

In the pre-COVID-19 era, what operation would this patient be recommended?

- ☐ Minor resection
- ☐ Extra major resection
- ☐ Major resection

In the pre-COVID-19 era, which operative approach would be planned for this patient?

- ☐ Open
- ☐ Laparoscopic

Date of cancer diagnosis: ____/____/____

Date of decision for curative surgery: ____/____/____

Was the initial MDT (tumour board) decision for primary surgical treatment?

Yes – decision for surgical Rx (optimal treatment option) | Yes – decision for surgical Rx (compromised option due to COVID-19) | No – decision for non-surgical Rx (optimal treatment option) | No – decision for non-surgical Rx (compromised option due to COVID-19)

Reason of compromise: _____

Did the patient have an operation related to this cancer during the 3-month study window? No / Yes

If a cancer operation WAS performed:

Date of surgery: ____/____/____

Op performed in: Dedicated COVID-free hospital | Dedicated COVID Rx hospital | Undesignated hospital type with ED | Undesignated hospital type without ED | Other: _____

COVID-19 CRITCON level: 0 | 1 | 2 | 3 | 4 | 5

Did the patient have a *resolved* COVID-19 infection before the time of surgery? Yes – lab test/CT thorax | Clinical suspicion | No

Was COVID-19 screening performed preoperatively?

Laboratory test | CT thorax | Other: _____

Did patient have mandatory self-isolation before surgery?

Yes, > 2 weeks | Yes - < 2 weeks | No

COVID-19 suspected at time of surgery? Yes | No

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"/> |

Urgency of surgery:

Immediate | Urgent | Expedited | Elective

If a cancer operation WAS performed:

If emergency cancer surgery was required, why?

- ☐ Gastro-intestinal obstruction
- ☐ Bleeding
- ☐ Sepsis
- ☐ Tumour progression
- ☐ Organ perforation
- ☐ Other: _____

Anaesthesia: Local | Regional | General

Operation performed? _____

Approach: Open | Minimally invasive

Surgical intent: Curative | Palliative

Did this represent a change to your typical operative approach in the pre-COVID-19 era?

- ☐ No change to operative approach
- ☐ Yes, chose to avoid minimally invasive surgery related to COVID
- ☐ Yes, chose to avoid open surgery related to COVID

Environment in which patient cared for:

Operative theatre – Designated COVID theatre | Designated non-COVID theatre | No designation for theatre

ITU – Designated COVID treatment area | Designated non-COVID treatment area | No designation for this area

Postop ward– Designated COVID ward | Designated non-COVID ward | No designation for this ward

Resection margin status: R0 | R1 | R2 | Unknown

Did any change to treatment occur due to the COVID-19 pandemic (operated patients)?

No change to care, no neoadjuvant Rx | No change – neoadjuvant equivalent to pre-COVID | Delay to definitive Rx | Expedited definitive surgery | Change in choice of operation | Op in alt. hospital | IR before surgery, not typically indicated | Neoadj treatment, not typically indicated | No Neoadj treatment, typically indicated | Neoadj treatment longer than typical | Neoadj treatment shorter than typical | Adj treatment, not typically indicated | No Adj treatment, typically indicated | Other: _____

Did the patient receive any additional treatment modality before surgery?

None | Radiofrequency ablation, optimal Rx option, indicated in pre-COVID-19 era | Radiofrequency ablation, non-optimal Rx option, not indicated in pre-COVID-19 era | Transarterial chemoembolization, optimal Rx option, indicated in pre-COVID-19 era | Transarterial chemoembolization, non-optimal Rx option, not indicated in pre-COVID-19 era

Details of neoadj Rx: _____

COVID-19 post-operatively (30 days): Yes – lab test | Yes – CT

thorax | Yes– clinical only | No

If yes: Inpatient | Required Admission | Community

Mortality: Died on table | d0-7 | d8-30 |

Alive still in hosp 30d | transferred | discharged to rehab | discharged home

Re-operation: Yes | No

Post-op intensive care: No | planned from theatre | unplanned from theatre | unplanned from ward
(If no/unplanned from ward): Would post-operative ICU bed have been planned pre-COVID-19 era? Yes, not available ~ COVID | Yes, not available (other) | No

Total length of hospital stay: _____ days

Did surgeons contract COVID-19 (30-days): Yes | No

If a cancer operation WAS performed:

Complications:

- ☐ Acute kidney injury
- ☐ ARDS
- ☐ Anastomotic leak
- ☐ Blood transfusion
- ☐ Cardiac arrest
- ☐ Coma >24h
- ☐ Deep Vein Thrombosis
- ☐ Graft/prosthesis/flap fail
- ☐ Myocardial infraction
- ☐ Pneumonia
- ☐ Respiratory failure
- ☐ Sepsis
- ☐ Septic shock
- ☐ Stroke/TIA
- ☐ SSI superficial/deep
- ☐ SSI organ space
- ☐ UTI
- ☐ Wound dehiscence

If NO operation was performed (by 3 months from study entry)

Is there still a plan for curative surgery? Yes | No

Why was no operation performed in the 3 months?

If still plan for surgery:

- ☐ Patient choice to avoid surgery during pandemic
- ☐ MDT decision to delay surgery due to risk to patient
- ☐ Ongoing neoadjuvant treatment
- ☐ No bed / intensive care space / theatre space
- ☐ Change of recommendations in society guidelines related to COVID

If no ongoing plan for surgery:

- ☐ Patient choice to avoid surgery during pandemic
- ☐ MDT decision to delay surgery due to risk to patient
- ☐ Disease progression, surgery no longer indicated
- ☐ Change in clinical status unrelated to cancer e.g. MI
- ☐ Died awaiting surgery
- ☐ Changes in society guidelines due to COVID-19
- ☐ Other: _____

Has the cancer been re-staged? No | Yes

If so, date ____/____/____

After restaging, what operation would this patient be recommended?

- ☐ Minor resection
- ☐ Extra major resection
- ☐ No longer suitable for surgery

Did any change to treatment occur due to the COVID-19 pandemic (non-operated patients)?

No change to care – delayed/cancelled other reason | Operation cancelled because of COVID-19 | Operation delayed because of COVID-19 | Neoadj treatment, not typically indicated | Neoadj treatment longer than typical | Neoadj treatment shorter than typical | Less access to staging procedures | Less access to staging investigations | Other : _____

NB: Continued on next page

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Did the patient receive any additional treatment modality

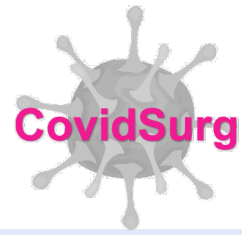
- ☐ None
- ☐ Radiofrequency ablation, optimal Rx option, indicated in pre-COVID-19 era
- ☐ Radiofrequency ablation, non-optimal Rx option, not indicated in pre-COVID-19 era
- ☐ Transarterial chemoembolization, optimal Rx option, indicated in pre-COVID-19 era
- ☐ Transarterial chemoembolization, non-optimal Rx option, not indicated in pre-COVID-19 era



NIHR Global Health Research Unit on
Global Surgery

Case Report Form CovidSurg

NB: Complete this CRF only for patients that are eligible for **both** studies (operated cancer patients with COVID-19 infection)



Patient REDCap ID: _____

COVID-19 Patient Information

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

Findings at admission:

- ☐ Abdominal pain
- ☐ Dyspnoea
- ☐ Cough
- ☐ Diarrhoea
- ☐ Fatigue
- ☐ Fever >38C
- ☐ Haemoptysis
- ☐ Myalgia
- ☐ Nausea/vomiting
- ☐ Sputum
- ☐ Other: _____

COVID-19 Preoperative Investigations

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

COVID-19 Treatment

Did patient receive NSAIDs? No | Yes before admission
| After admission | Both

Patient received during index admission?

- ☐ Antibiotics
- ☐ Antivirals
- ☐ Quinine/derivative
- ☐ Corticosteroids
- ☐ IV Immunoglobulins
- ☐ Interferon
- ☐ IL-6 blocker

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:

- ☐ None
- ☐ Low-flow O2
- ☐ High-flow O2
- ☐ Non-invasive ventilation
- ☐ Invasive vent
- ☐ ECMO

Post-op respiratory support:

- ☐ None
- ☐ Low-flow O2
- ☐ High-flow O2
- ☐ Non-invasive ventilation
- ☐ Invasive vent
- ☐ ECMO

Duration of post-op mechanical ventilation:

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