Case Report Form CovidSurg-Cancer-Lung
NB: Additional data points may be required for specific cancer types

**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 | 90+  
**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)
- Moderately obese (30-34.9)
- Normal/healthy weight (18.5-24.9)
- Severely obese (35-39.9)
- Very severely obese (>40)

**Comorbidities:**
- Congestive heart failure
- Dementia
- Diabetes Mellitus
- Hypertension
- Myocardial Infarction
- COPD
- Peripheral Vascular Disease
- Stroke/TIA
- Other:

**Cancer-specific details:**
- Primary lung cancer
- Mediastinal tumour
- Pleural mesothelioma
- Other:

**Baseline staging at decision for surgery:**
- T stage: T1 | T2 | T3 | T4 | unknown
- N stage: N0 | N1 | N2 | unknown
- M stage: M0 | M1 | M2 | unknown

**Date of cancer diagnosis:**

**Date of decision for curative surgery:**

**Referral route:**
- Screening programme
- From primary care
- From secondary care
- Other:

**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)

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

**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 CRITICON 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?**
- Yes
- No

**Laboratory test | CT thorax | Other: ____________

**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

**Tests performed to investigate SARS-CoV-2 status:**
- CT | CT (neg) | CT (pos) | Swab (neg) | Swab (pos)

**Cancer**
- Lung
- Pleural mesothelioma
- Other:

**Post-operative complications:**
- Graft/prothesis/flap fail
- Acute kidney injury
- Septic shock
- Stroke/TIA
- SSI superficial/deep
- SSI organ space
- ULI
- Other:

**Complications:**
- Pneumonia
- Respiratory failure
- Septic shock
- Stroke/TIA
- SSI superficial/deep
- SSI organ space
- ULI
- Other:

**If a cancer operation WAS performed:**
- Complications:
- Acute kidney injury
- Respiratory failure
- Septic shock
- Stroke/TIA
- SSI superficial/deep
- SSI organ space
- ULI
- Other:

**If no operation was performed: (3 months from study entry)**
- Is there still a plan for curative surgery? Yes / No

**Why:**
- Patient choice to avoid surgery during pandemic
- MDT decision to delay surgery due to risk to patient
- Ongoing neoadjuvant treatment
- No bed / Critical care space / Operating room space
- Change of recommendations in society guidelines related to COVID-19

**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
- Other:

**Has the cancer been re-staged?**
- Yes / No

If so, date _______ / _______

**T stage:**
- T1 | T2 | T3 | T4 | unknown

**N stage:**
- N0 | N1 | N2 | unknown

**M stage:**
- M0 | M1 | M2 | unknown

**Change to operation choice**
- Thoracotomy, not VATS | Change of lung isolation (single lumen ETT, not DLT)
- Other:

**Change in definitive treatment modality**
- Radical radiotherapy | SBRT | Other:

**COVID-19-19 era?**
- Yes
- No

**Change in treatment due to COVID-19:**
- Yes
- No

**Other:**

**If other:**

**Change to care, MDT decision to delay surgery due to COVID-19:**
- Change in definitive treatment modality
- Less access to staging procedures
- Less access to staging investigations
- Other:

**Operation performed in:**
- Dedicated COVID theatre
- Dedicated non-COVID treatment area
- Designated COVID theatre
- Designated non-COVID treatment area
- No designation for theatre
- No designation for this area
- No designation for this ward

**CT thorax**
- Other: ____________

**SARS-CoV-2 status:**
- Immediate | Urgent | Expedited | Elective

**If a cancer operation was performed:**
- Anæsthesia: Local | Regional | General
- Operation performed?

**Approach:**
- Open | Minimally invasive | Converted to open

**Surgical intent:**
- Curative | Palliative

**Post-operative intent:**
- Curative | Palliative

**Details of neoadjuvant Rx:**
- No change, no neoadjuvant Rx | No change – neoadjuvant equivalent to pre-COVID | Delayed Rx – higher operative risk | Delayed Rx – lower malignancy risk | Delayed Rx – no capacity | Expedited definitive surgery | Change in choice of option | IR performed before surgery, not typically indicated | Neoadj, not typically indicated | Neoadj treatment, typically indicated | No adjuvant chemotherapy, typically indicated | No adjuvant radiotherapy, typically indicated | Other:

**Complications:**
- Neoadjuvant Rx: _______ / _______

**If no change to treatment occurred due to COVID-19:**
- No change to treatment occurred due to COVID-19
- Other:

**If other:**

**Post-operative care:**
- 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

**Total length of hospital stay:**
- _____ days

**To determine if the change was due to COVID-19:**
- Change in definitive treatment modality
- Less access to staging procedures
- Less access to staging investigations
- Other:

**If still 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
- Other:

**Has the cancer been re-staged?**
- Yes / No

If so, date _______ / _______

**T stage:**
- T1 | T2 | T3 | T4 | unknown

**N stage:**
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**M stage:**
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**Change to operation choice**
- Thoracotomy, not VATS | Change of lung isolation (single lumen ETT, not DLT)
- Other:

**Change in definitive treatment modality**
- Radical radiotherapy | SBRT | Other:

**COVID-19-19 era?**
- Yes
- No

**Change in treatment due to COVID-19:**
- Yes
- No

**Other:**

**If other:**
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 (pos) | CT (neg)
- Swab (pos) | Swab (neg)
- 4-7 days prior surgery
- 1-3 days prior surgery
- Day of surgery (preop)
- After surgery (during index admission)
- After discharge from index admission (within 30 days of surgery)

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: ____10^9/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
- 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 | Non-invasive ventilation | Low-flow O2 | Invasive vent | High-flow O2 | ECMO

Post-op respiratory support:
- None | Non-invasive ventilation | Low-flow O2 | Invasive vent | High-flow O2 | ECMO

Duration of post-op mechanical ventilation:
- 1-23h | 24-47h | 48-71h | 72-167h | 168h+

**Case Report Form CovidSurg**

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