<table>
<thead>
<tr>
<th>Comorbidities:</th>
<th>Current smoker</th>
<th>Congestive heart failure</th>
<th>Asthma</th>
<th>Diabetes Mellitus</th>
<th>CKD (Moderate/Severe)</th>
<th>Hypertension</th>
<th>COPD</th>
<th>Myocardial Infarction</th>
<th>Congenital abn (cardiac)</th>
<th>Peripheral Vascular Dis</th>
<th>Congenital abn (non cardiac)</th>
<th>Stroke/TIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer-specific details:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pre-menopausal</td>
<td>Post-menopausal</td>
<td>Unknown</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cancer type</td>
<td>Ductal carcinoma in situ</td>
<td></td>
<td>Invasive carcinoma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Menopausal status</td>
<td>Pre-menopausal</td>
<td>Post-menopausal</td>
<td>Unknown</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CDIS grade</td>
<td>High grade</td>
<td>Intermediate grade</td>
<td>Low grade</td>
<td>Mixed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oestrogen receptor status</td>
<td>Positive</td>
<td>Negative</td>
<td>Unknown</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Progesterone receptor status</td>
<td>Positive</td>
<td>Negative</td>
<td>Unknown</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HER2 status</td>
<td>Positive</td>
<td>Negative</td>
<td>Unknown</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of cancer diagnosis:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Date of decision for curative surgery:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Was the initial MDT (tumour board) decision for primary surgical treatment?</td>
<td>Yes – decision for surgical Rx (optimal treatment option)</td>
<td></td>
<td>Yes – decision for surgical Rx (compromised option due to COVID-19)</td>
<td></td>
<td>No – decision for non-surgical Rx (optimal treatment option)</td>
<td></td>
<td>No – decision for non-surgical Rx (compromised option due to COVID-19)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Case Report Form CovidSurg-Cancer-Breast

### Patient REDCap ID:

#### Age:
- 0-4 | 4-55 | 5-64 | 65-74 | 75-84 | 85+

#### Sex:
- Female | Male | Other

#### Grade:
- 1 | 2 | 3 | 4 | 5

#### Weight (>52 weeks only): ___ kg

#### WHO/ECOG Performance status:
- 0 | 1 | 2 | 3 | 4 | 5 | Unknown

#### Immediate | Urgent | Expedited | Elective

<table>
<thead>
<tr>
<th>COVID</th>
<th>Rx hospital</th>
<th>Undesignated hospital type with ED</th>
<th>Undesignated hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Op performed in:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dedicated COVID-free hospital</td>
<td>Dedicated COVID Rx hospital</td>
<td>Undesignated hospital type with ED</td>
<td>Undesignated hospital type without ED</td>
</tr>
</tbody>
</table>

#### Other:

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

**Urgency of surgery:**
- Immediate | Urgent | Expedited | Elective

---

### If a cancer operation WAS performed:

| Date of surgery: | |
| 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 |

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

#### Laboratory test | CT thorax | Other:

---

### Tests performed to investigate SARS-Cov-2 status:

<table>
<thead>
<tr>
<th>4-7 days prior surgery</th>
<th>1-3 days prior surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT</td>
<td>CT</td>
</tr>
</tbody>
</table>

---

### If a cancer operation WAS performed:

| If emergency cancer surgery was required, why? | |
| Did this represent a change to your typical operative approach | Yes | No
| Other: |

---

### Surgical intent:

| Curative | Palliative |

---

### Environment in which patient cared for:

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

---

### COVID-19 post-operatively (30 days):

| Yes | No |

---

### Post-op intensive care: | No | Planned from theatre | Unplanned from theatre |
| Unplanned from ward: | Would post-operative ICU bed have been planned pre-COVID-19 era? | Yes | No |

---

### If a cancer operation WAS performed:

**Complications:**
- Acute kidney injury | Pneumonia |
- ARDS | Respiratory failure |
- Anastomotic leak | Sepsis |
- Blood transfusion | Septic shock |
- Cardiac arrest | Stroke/TIA |
- Coma >24h | SSI superficial/deep |
- Deep Vein Thrombosis | SSI organ space |
- Graft/prothesis/flare fail | UTI |
- Myocardial infarction | Wound dehisence |

---

### 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-19 |

---

### Other: | | | |
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
- Change of recommendations in society guidelines
- Other: ______________________

Has the cancer been re-staged? No | Yes
If so, date__/__/__

Did any change to treatment occur due to the COVID-19 pandemic (non-operated patients)?
No change to care – delayed/cancelled other reason | Operation delayed because of COVID-19 | Operation delayed because of COVID-19 | Change in Rx strategy | IR procedure before/instead of surgery, not typically indicated | Neoadj treatment, not typically indicated | No Neoadj, typically indicated | Neoadj treatment longer than typical | Less access to staging procedures | Less access to staging investigations
| Other: ______________________

COVID-19 Patient Information

BCG/Tuberculosis(TB) status
Vaccine: <15yrs ago | Vaccine: <15 years ago | TB diagnosis <15yrs ago | TB diagnosis: >15 yrs 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
- Other: ______________________

Findings at admission:
- Systolic BP: ____ mmHg
- Diastolic BP: ____ mmHg
- Heart rate: ____ rpm
- Resp rate: ____ rpm

Tests performed to investigate SARS-CoV-2 status:

<table>
<thead>
<tr>
<th>4-7 days prior surgery</th>
<th>1-3 days prior surgery</th>
<th>Day of surgery (preop)</th>
<th>After surgery (during index admission)</th>
<th>After discharge from index admission (within 30 days of surgery)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT (neg)</td>
<td>CT (pos)</td>
<td>CT (neg)</td>
<td>CT (neg)</td>
<td>CT (neg)</td>
</tr>
<tr>
<td>Swab (neg)</td>
<td>Swab (pos)</td>
<td>Swab (pos)</td>
<td>Swab (neg)</td>
<td>Swab (neg)</td>
</tr>
</tbody>
</table>

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: ____ x 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

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
- High-flow O2
- Invasive vent
- ECMO

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

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