A Checklist for Safe Surgery during the COVID-19 Pandemic

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uring the novel Coronavirus (COVID-19) outbreak, surgeons in Sri Lanka were confronted with the challenge of continuing surgical patient care without compromising the safety of the patient and the healthcare worker (HCW). The fiscal constraints in unreserved utilisation of PCR tests for diagnosis of COVID, the lack of availability of personal protective equipment (PPE), combined with the theoretical risk of COVID exposure to the HCW with every patient encountered tipped the balance toward an undue fear and paranoia that hindered the provision of optimum patient care.

This triggered an urgent need for a viable system in place that could not only ease the mental stress on the HCW, but also reduce the extraneous COVID testing, and the unmerited use of PPE in tandem. A standardised checklist was developed to stratify the risk of managing a surgical patient in the setting of COVID that in turn would aid the HCW to be appropriately prepared to minimise the risk of exposure.

The checklist was developed in 3 parts.

- Part 1 is filled by the <u>ward doctor</u> and it has 2 subsections.
 - 1. **Priority level of surgical decision** The patient is placed in one of the 5 priority levels based on the surgical management decision. At a glance, this provides an overall impression on the degree of priority that ought to be given for the patient's management.
 - 2. **Assessment of the patient's COVID-19 status** Based on a set of standard questions and clinical findings, this ascertains the probability of COVID in the surgical patient. A guide is included to decide the need for PCR testing based on this assessment. The patient's COVID status is then placed on a *Dichotomous chart*.
- *Part 2* is filled by the <u>ward nurse</u> before sending the patient to the operation theatre (OT). It is based on a well-established nurses' preoperative checklist. As COVID-19 special preparations, a mask and chest x-ray were included.
- Part 3 is filled together by the <u>anaesthetist</u>, <u>surgeon</u>, and the <u>theatre nurse</u> at the 'patient waiting room' in the OT prior to taking the patient to the inside of the OT. In this section, a guide is included to decide the need for full PPE/intermediate protection/standard protection based on the patient's COVID status, the surgical procedure, and the mode of anaesthesia. The necessary protective equipment for the surgery is then distributed amongst the staff accordingly.

The checklist was approved for a pilot run at the CSTH and amendments were made based on the feedback. Upon approval by the College of Surgeons of Sri Lanka, it was officially introduced to Sri Lankan surgeons and distributed amongst surgical units in the country. The checklist was used widely within the surgical setup to stratify the COVID risk for the HCW, and it helped to reduce the fear-psychosis of COVID, rationalise the PCR testing, and judiciously manage the available PPE.

