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Ceppa Commentary

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Commentary: This port's for YOU!

DuyKhanh P. Ceppa, MD

In December of 2019, Chinese officials acknowledged a new, highly contagious virus that resulted in pneumonia and an extreme acute respiratory distress syndrome, resulting in more deaths than influenza or severe acute respiratory syndrome coronavirus (SARS-CoV). By January 2020, cases of SARS-CoV-2 were being reported around the world, and the World Health Organization declared a Public Health Emergency of International Concern on January 30, 2020. The contagion of this virus and its deadliness are real.² In particular, health care professionals on the frontline of care are being exposed to greater viral loads due to multiple exposures and, despite the lack of comorbid conditions, presumably young and healthy physicians are, too, succumbing to the virus. Even more insidious is the fact that carriers of the virus may be asymptomatic for days to weeks or may have only mild symptoms. All the while these asymptomatic or mildly symptomatic patients are shedding the virus and, unknowingly, infecting those around them.

Performing surgery (either elective or urgent) on an asymptomatic carrier of SARS-CoV-2 is a possibility. Moreover, becoming infected by an unsuspecting carrier has occurred, and surgeons have fallen ill.³ During this new "post-coronavirus disease 2019 (COVID-19)" era, establishing safeguards and minimizing exposure and infection are paramount to the surgeon and the entire operating room team. In their techniques manuscript, Seco and colleagues⁴ describe such a process, which is especially important to the discipline of general thoracic surgery and pulmonary resections.

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CENTRAL MESSAGE

During this new "post-COVID era," we all need to be even more deliberate in the conduct of our cases, thinking not only about the patient but now also of ourselves and the health of our team.

Identified as critical to performing intrathoracic surgery during the "COVID" era are (1) preoperative screening, (2) minimizing aerosolization during surgery with specific insufflation/desufflation ports, and (3) minimizing aerosolization during surgery by limiting instrument exchange and tissue handling. The authors screen elective patients with nasopharyngeal swabs within 48 hours of elective surgery. A computed tomography scan of the chest is also performed, ideally within 48 hours of surgery. Intraoperatively, the authors limit potential exposure during port placement by using lowpressure insufflation. The port system the authors describe suctions out all intrathoracic gases before port and instrument exchanges. Smoke-inducing energy devices have accompanying smoke evacuation. All suctioned gases are filtered. Finally, specimens are set aside in the chest in separate but labeled "bags" and only retrieved once at the end of the operation before skin closure.

While the authors skillfully describe their process and technique, they, unfortunately, do not yet have data that this technique is successful in limiting exposure and infections in patients positive for COVID-19. This manuscript does, however, raise a few interesting questions to contemplate. In the era of COVID-19, as aerosolization is easier to control or limit using small incisions and minimally invasive techniques, should we as a community strive even

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harder to increase the adoption of minimally invasive surgery across all surgeon generations? In traditional thoracoscopic surgery, sealed ports, insufflation, and desufflation are not typically used. Should thoracoscopic surgeons adopt the use of these devices? Or, more controversially, should thoracoscopic surgeons convert to robotic surgery? The answers to those questions are well beyond the scope of this manuscript and this editorial. However, it is clear that during this new "post-COVID era," whether we adopt Seco and colleague's technique or another, we all need to be even more deliberate in the conduct of our cases, thinking not only about the patient and their disease process but now also of ourselves and the health of our colleagues and

team. So, SARS-CoV-2, this insufflation/desufflation port's for you!

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