Creating a COVID-19 safe chest tube drainage system

Centre Hospitalier de l’Université de Montréal
Division of Thoracic Surgery
CHUM Endoscopic Tracheo-bronchial and Oesophageal Center
(C.E.T.O.C.)
What will you need?

• Chest tube drainage system
• Covid-19 approved mechanical ventilator expiratory filter
• Endotracheal tube (preferentially 7.0)
Step 1

• Cut the atmospheric extension 1 cm proximal to plastic connector
  (Do not dispose of distal part will be needed for suction)
Step 2

• Remove the endotracheal tube connector and connect it to chest tube drainage system
Step 3

• Connect the filter to the chest tube drainage system
Connecting suction to the chest tube drainage system
What will you need?

• Hudson RCI Multi-adapter 15 X 22 mm
• Previously cut distal connector (do not remove cut tubing)
Step 1

• Attach Hudson RCI connector to the filter
Step 2

- Wedge the connector into the filter. Make sure you have a tight fit.
Step 3

• Connect the suction.
Step 4

• Tape the connections to avoid accidental disconnections.