

Supplementary Material

Details of Computer Tomography

The imaging was performed with either a Somatom Force 384 (2x192 sections, Siemens Healthineer) or Brilliance iCT (256 sections, Philips Healthcare). CT Pulmonary Angiography (PA) is performed by bolus trigger at 110 HU. The images for the purpose of this study were with single energy.

Details of Anticoagulation Protocol

Intravenous unfractionated heparin infusion (UFH) was used with 50 IU/kg as a bolus at the time of cannulation with 2,500 units in the priming fluid for the circuit unless contraindicated due to bleeding.

Prior to 1st November 2019, UFH infusions were monitored by activated partial thromboplastin time ratio (APTT_r) with a target level of 1.5-2.0 if evidence of no thrombosis and haemorrhage and 2.0-2.5 if a thrombotic event.

From 1st November 2019 to present, anti-Xa activity was used for monitoring targeting levels of 0.3 - 0.7 unit/mL if no evidence of thrombosis or haemorrhage were present and 0.6 - 1.0 unit/mL if there was a thrombotic event