



**Figure S1** Schematic illustration of ICNB under thoracoscopic guidance. The injection site (arrow) is located at the angle of the rib, approximately 6–8 cm lateral to the paravertebral space. Key anatomical structures include the intercostal nerve (yellow), intercostal artery (red), and parietal pleura (blue). The procedure involves precise delivery of 0.5% ropivacaine at the target intercostal nerve to block sensory innervation of the chest wall. ICNB, intercostal nerve block.