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主題：

Unilateral Pulmonary Edema Following Robotic Assisted Cardiac Surgery

摘要：

Robotic-assisted cardiac surgery using the da Vinci Surgical System has emerged as a minimally invasive approach for treating various heart conditions. Compared to open-heart surgery, robotic-assisted cardiac procedures offer several potential benefits, including smaller incisions, reduced blood loss, lower risk of infection, shorter hospital stays, and faster recovery times.

Unilateral pulmonary edema (UPE) is a rare but significant complication that may arise following da Vinci robotic-assisted cardiac surgery. This presentation aims to explore the pathophysiology, clinical implications, and management strategies associated with UPE in the context of advanced robotic surgical techniques. UPE can occur due to various factors, including fluid overload, impaired left ventricular function, or complications related to the surgical procedure itself, such as valve manipulation or pulmonary vascular injury. This talk will also present a case study illustrating the onset of UPE following a robotic-assisted mitral valve repair, highlighting the anesthetic considerations and intraoperative monitoring that are crucial for early detection and intervention. Furthermore, the presentation will review current literature on the incidence of UPE in robotic cardiac surgeries and discuss preventive measures that anesthesiologists can implement to mitigate this risk.