

The Complications, Infections and other Risk Factors after Lung Surgery: The Literature Review

Zulfa Saumia History Department, Universitas Jambi, Indonesia





According to the P2PTM Ministry of Health of the Republic of Indonesia, lung cancer often occurs in people wh o smoke. There are two types of cancer, namely small cell lung cancer and non-small cell lung cancer. The cause of lung cancer can occur due to smoking, passive smoking, exposure to certain toxins and heredity.

Symptoms include coughing up blood, chest pain, wheezing, asthma, and weight loss. Various treatments for th is cancer range from traditional to lung surgery. Surgery is often the last resort if conventional treatments don't work. Unfortunately, there are various complications that occur after surgery. What and how are these complications?





The data in this abstract were obtained from reading and analysing. various literature research.

Results

Daniel N Nan, Marta Fernandez, et.all, Nosocomial infection after lung surgery: incidence and risk f actors, Chest. 2005 Oct;128(4):26 47-52	Bernd M Muehling, et.all, Reducti on of postoperative pulmonary c omplications after lung surgery u sing a fast track clinical pathway, Eur J Cardiothorac Surg 2008 Jul 34(1): 174-80	Marc Licker, Marc de Perrot, et.all , Risk factors for acute lung injur y after thoracic surgery for lung cancer, Anesth Analg.2003 Dec;97 (6):1558-1565.
Based on 295 patients with a mean age of 60%, 89% of them underwe nt surgical resection. The 20 patien ts developed a severe infection (pn eumonia or empyema) with a mort ality rate of 60% despite increasing duration. After lung cancer surgery , there are usually risk factors for n osocomial infection. Nosocomial in fections are common after lung sur gery. One-third of infections are de tected after hospital discharge. Hig h-risk risk profile ranging from pre -existing disease, long operating ti me and postoperative ICU admissi	The postoperative pulmonary com plication rate was 35% in the cons ervative group and 6.6% in the fast -track group. Postoperatively, there were fewer pulmonary complicatio ns in the fast-track group. Morbidit y and mortality are not much diffe rent. Evaluation of the patient care program needs to be optimized fo r patients undergoing lung resectio n Post-pulmonary care is importa nt to reduce pulmonary complicati ons after major lung surgery.	Acute lung injury (ALI) can complic ate thoracic surgery and is a major cause of postoperative death. Risk factors for ALI include a high index of intraoperative ventilation pressu re, excessive fluid infusion, pneum onectomy and inappropriate preop erative alcohol use.

The first postoperative pulmonary complication is Nosocomial Infection . According to Daniel et al, the results of a sample of 295 patients with 60% of them underwent surgical resection. These patients had a severe infection (pneumonia or empyema) and a 60% mortality rate. Second, p ostoperative pulmonary complications. The rate of postoperative pulm onary complications was less in the fast-track group 6.6%. Morbidity an d mortality are not much different. Post-thoracic surgery for lung cance r can cause acute lung injury (ALI) and become the leading cause of pos toperative death.

Conclusion

Nosocomial infection occurs because of the long operation time and postoperative ICU admission. Post-pulmon ary care is important to reduce complications following major lung surgery. The index of intraoperative ventilati on pressure, intravenous fluids, and alcohol use should be considered to avoid death.

Reference

- Daniel N Nan, Marta Fernandez, et.all, Nosocomial infection afte r lung surgery: incidence and risk factors, Chest. 2005 Oct;128(4) :2647-52
- Bernd M Muehling, et.all, Reduction of postoperative pulmonary complications after lung surgery using a fast track clinical pathw ay, Eur J Cardiothorac Surg 2008 Jul 34(1): 174-80
- Marc Licker, Marc de Perrot, et.all, Risk factors for acute lung inj ury after thoracic surgery for lung cancer, Anesth Analg.2003 De c;97(6):1558-1565.