

Does Perioperative Pulmonary Artery Catheter Use Decrease 1-Year All-Cause Mortality in Patients Undergoing Cardiac Surgery?

STUDY DESIGN

Retrospective review of a nationwide (Korea) **population-based cohort of adult patients undergoing cardiac surgery** (n = 61,405) between 2011 and 2020 using a health insurance claim database

1^o outcome: Risk of 1-year **all-cause mortality** with use of a pulmonary artery catheter (PAC)

RESULTS



PAC group ↓ **risk of 1-year all-cause mortality** compared with no-PAC group
(adjusted OR, 0.81; 95% CI, 0.76-0.86)

Type of cardiac surgery and institutional case volume were significant modifiers in subgroup analysis



PAC group ↓ **risk after isolated off-pump coronary artery bypass grafting**
(adjusted OR, 0.54; 95% CI, 0.48-0.61)



PAC use ↓ **risk in the lowest-case volume centers**
(< 100 cases/year; OR, 0.70; 95% CI, 0.65-0.76)

Perioperative use of PACs was associated with a significant reduction in the risk of postoperative 1-year all-cause mortality, particularly in those who underwent off-pump coronary artery bypass grafting and those who underwent cardiac surgery in less experienced centers.