

Post-Operative Atrial Fibrillation and its Predisposing Factors After Cardiac Surgery

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Atrial fibrillation (AF) occurs in up to 50% of patients after open-coronary heart surgery. Incidence of arrhythmia has now not changed, regardless of upgrades in anesthetic and surgical techniques and proof indicates its incidence may be growing [1]. It normally has a tendency to arise within 3 to 4 days postoperatively and, in a minority of cases, it is able to result in beside the point tachycardia, hypotension, heart failure, and a likely increase in the chance of cerebrovascular accidents [2]. Age has been recognized as one of the maximum powerful contributing risk component for AF after open-coronary heart surgery [3].

Although the etiology of AF after open heart surgery is incompletely understood, stimuli and triggers including preexisting structural modifications of the atria associated with high blood pressure, mechanical harm, extent overload, age, intraoperative atrial ischemia, electrolyte imbalances, and pericardial lesions are thought to play a function in the pathogenesis of postoperative AF [4]. Post operative AF is most normally detected on the second one to fourth postoperative days and is most customarily self-proscribing and short-lived [5]. In a few patients, significantly in elderly patients and those with pre-current congestive heart failure (CHF), even short episodes of publish operative AF is connected to serious early complications, along with hemodynamic instability, acute kidney injury (AKI), acute cardiac failure, and stroke [6]. Furthermore, patients who revel in post operative AF have a twofold 30-day mortality, considerably increased postoperative morbidity and better medical institution fees, especially due to a long period of health center stay [7].

Mechanism of Atrial fibrillations after cardiac surgery: AF is usually attributed the reentry of multiple wavelets of excitation movement at some stage in the atria. The exact electrophysiological mechanism of brought on atrial fibrillation after cardiac sur-

gical operation are absolutely understood, however episode are probably initiated via triggers which include ventricular premature contraction in sufferers with a inclined underlying atrial substrate. Occasionally, atrial fibrillation may be resulting from unexpectedly firing atrial recognition, although the importance of this mechanism among patients with postoperative atrial fibrillations has not but been calrified [8].

Competing Interest

Author declares that there is no competing interest.

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