

**THE ROLE OF PERIOPERATIVE TRANSESOPHAGEAL
ECHOCARDIOGRAPHY IN THE NON-CARDIAC
SURGERY AND INTENSIVE CARE PATIENTS**

Essay Submitted

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Abstract

The application of transesophageal echocardiography (TEE) in the perioperative setting has been expanding for the past 15 years.

TEE has become increasingly important in the management of critically ill patients in both the operating room and the intensive care unit (ICU).

In several surgical specialties, including vascular surgery, neurosurgery, laparoscopic, orthopedic, and transplant surgery, the intraoperative TEE monitoring found specific indications. The early recognition of hemodynamic changes, pulmonary and paradoxical embolism and ischemic events, often not diagnosed through standard monitoring such as electrocardiography and pulmonary artery catheterization, allows a prompt therapeutic intervention.

Key words: Transesophageal echocardiography (TEE), noncardiac surgery, monitoring, critical care units, hemodynamic instability, cardiac arrest.