

INFOGRAPHICS IN ANESTHESIOLOGY

Complex Information for Anesthesiologists Presented Quickly and Clearly

OPERATION CANCER RESECTION:

Anesthetic choices may be important for long-term outcomes in cancer. They have differential effects on neuroinflammatory signaling which may impact cancer recurrence.²

Does anesthetic approach matter?

While some retrospective studies have found differences between TIVA and GA, others studies have not.

Studies with TIVA benefit

Esophageal
(n=922)²

Gastric
(n=2,856)²

Colon
(n=1,363)²

Studies with no difference

Breast
(n=5,331)¹
(n=2,645)²
(n=1,217)²

Lung
(n=943)²

Colorectal
(n=1,297)²

Randomized trials are necessary to determine the true impact of anesthetic choice on long-term cancer recurrence.

Why the differences? It may be that the benefit to TIVA is limited to large operations with significant inflammation.

TIVA, total intravenous anesthetic; GA, general anesthesia.

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1. Yoo S, Lee HB, Han W, Noh DY, Park SK, Kim WH, Kim JT: Total intravenous anesthesia *versus* inhalation anesthesia for breast cancer surgery: A retrospective cohort study. *ANESTHESIOLOGY* 2019; 130:31–40
2. Sessler DI, Riedel B: Anesthesia and cancer recurrence: Context for divergent study outcomes. *ANESTHESIOLOGY* 2019; 130:3–5