Challenges in the Pre-Operative Evaluation of the Cancer Patient

Nancy Pitruzzello DNP, APRN, FNP-BC, CPAN
Mayo Clinic Florida
Division of Perioperative Medicine
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Disclosures
Objectives

• Identify anesthesia approaches
• Classify cardiac risk, functional capacity, surgical risk
• Review peri anesthesia guidelines for diagnostic testing
• Explain medications and indications for surgery
• Discuss surgical considerations in the hematology-oncology patient population
First and Foremost: Hippocratic Oath
Types of Anesthesia

- General anesthesia
- IV/monitored sedation
- Local anesthesia
- Regional anesthesia
  - Regional blocks
    - Pain pumps
  - Spinal blocks
  - Epidural blocks
Cardiac Risk Index for Preoperative Risk

- High risk surgery
- CHF, Pulmonary edema
- CVA, TIA
- Pre-op insulin treatment
- Creatinine > 2.0
- History of ischemic heart disease
Functional Capacity

- Metabolic equivalent task score (METs)
  - Dasi Duke Score
  - American Society of Anesthesiologist (ASA) Physical Status Classification System
  - Eastern Cooperative Oncology Group (ECOG)

https://www.mdcalc.com/duke-activity-status-index-dasi
http://clipart-library.com/clipart/1156842.htm
Surgical Risk of Cardiac Event

- Low Risk <0.5%
- Intermittent Risk 1-2 %
- High Risk > 5%
Perioperative Testing

- Cardiac Testing
- Chest X-rays
- Laboratory

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Medications

• Cardiac
  o Blood pressure
  o Statins
    o Antiarrhythmics
• Blood thinners
• Pain
• Hormone replacement
• Chemotherapy agents
• Supplements

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Consideration in the Oncology patient

- Type of cancer
- Agents
- Prior treatments
- Radiation
- Last intervention
Case Study

- 54 yo female with history of breast cancer x 2
- Presenting for bilateral oophorectomy
- So...what do we need to know?
Always Remember......

LIFE IS A GIFT,

THAT'S WHY WE CALL NOW THE PRESENT.

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References


• Wijeysundera DN, Pearse RM, Shulman MA on behalf of the METS Study Investigators, et al