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Invasive and Non-Invasive Procedures: Understanding the Differences and Benefits

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Abstract

Medical procedures are integral components of healthcare delivery, of ering diagnostic, therapeutic, and preventive interventions. Two overarching categories of medical procedures, invasive and non-invasive, play pivotal roles in patient

invasive interventions to achieve therapeutic outcomes. Examples include the removal of tumors; coronary artery bypass graing; and joint replacement surgeries.

• . . . : In certain cases; invasive procedures can yield rapid results or immediate relief from symptoms. For instance; angioplasty can quickly alleviate the symptoms of a heart attack by restoring blood ow to blocked coronary arteries.

A, ..., .: Patients undergoing invasive procedures are usually placed under general anesthesia or regional anesthesia to minimize pain and discomfort.

 E_{ℓ} , Open surgery (e.g.; appendectomy; open-heart surgery)

 $Laparoscopic \, surgery \, (minimally \, invasive; involving \, small \, incisions \, and \, a \, camera)$

- 1. Cardiac catheterization
- 2. Joint replacement surgery
- 3. Non-Invasive Procedures

Non-invasive procedures; on the other hand; do not require any penetration of the body or the use of surgical instruments. ey are generally safer; less painful; and associated with shorter recovery times [6]. Here are some key characteristics and examples of non-invasive procedures:

- 1. Non Incisions
- 2. Non-invasive procedures are performed externally; without any need for surgical incisions.
 - 3. ese procedures are o en used for diagnostic purposes.

A, ..., ...

Patients usually do not require anesthesia for non-invasive procedures; making them more accessible and less risky.

E/-

- 1. X-rays and other imaging techniques
- 2. Blood pressure measurement
- 3. Electrocardiogram (ECG or EKG)
- 4. Ultrasound examinations
- 5. Endoscopy (usually performed with minimal discomfort)

Invasive and non-invasive procedures have diverse applications in various medical specialties. Here are some examples of how each type is used:

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procedures through tiny incisions.

 $2. \hspace{0.5cm} \hbox{Robot-assisted surgery allows for enhanced precision and } \\ \hbox{dexterity.}$