Introduction to Perioperative Nursing

What is Perioperative Nursing?

Focus of Perioperative Nursing

- PNDS – Perioperative Nursing Data Set

A nursing language which describes nursing process in the perioperative setting by utilizing four domains.

- •Safety
- •Physiologic Responses
- •Behavioral Responses: Patient and Family
- •Health System

Safe Environment of Care
& Culture of Safety

- **Safe Environment of Care**
  - Multi-disciplinary system of policies and procedures that support safe patient practices
  - PNDS Outcome Statements
- **Culture of Safety**
  - Framework from which perioperative teams can foster a patient-centric safety culture.

Physiologic Responses

- Perioperative nursing assessment, diagnosis, implementation, and evaluation
- Baseline status and physiologic response to surgery
  - Tissue perfusion
  - Normothermia
  - Fluid/electrolyte/acid-base balance
  - Respiratory, cardiac, neurologic status

Behavioral Responses

- Psychosocial
- Spiritual
- Patient and Family
- Patient Rights
- Ethical and Legal Responsibilities

Health Care Organizational Outcomes

- Professional Development
  - Certification
  - Practice guidelines
- Regulatory Standards
  - Joint Commission
  - Government

Core Nursing Skills

- Critical thinking skills
- Provision of patient safety
- Patient/family education
- Aseptic techniques to promote wound healing
- Caring for diverse patient populations
- Knowledge of ethical and legal guidelines
- Coordinating multidisciplinary teams
- Knowledge of anatomy and physiology
- Evidence-based practice

Knowledge of Anatomy and Physiology

- Anatomy of the surgical / invasive procedure site

- Implications of surgical positioning
  - Related anatomy
  - Physiologic influences
    - musculoskeletal
    - neurovascular
    - integumentary
    - cardio – pulmonary

Evidence-Based Practice

- Research validated

- Expert opinion
  - Recommended practices
  - Standards
  - Guidelines
  - Best practices

Perioperative Practice Settings

- Hospitals
  - Main OR
  - Interventional Radiology
  - Cardiac Cath Lab
  - Endoscopy Units
  - Procedure Rooms
- Ambulatory Surgery Settings
  - Ambulatory Surgery Centers
  - Office based surgery

Perioperative Nursing Focus: Patient Assessment

- Gathers Information about:
  - procedure
  - medical and surgical history
  - medication history
  - allergies
  - psychosocial needs
- Imparts information about
  - perioperative course of events
  - planned procedure
  - post op pain management
  - wound healing
  - post op recovery/rehab
  - medication management
  - family information updates intraoperatively

Perioperative Nursing Focus: Provision of a Safe Environment

- Universal Protocol
- Medication Safety
- Electrosurgical Safety
- Positioning
- Surgical Counts
- Specimen Handling
- Equipment and Devices
- Latex Safe Environment

Perioperative Nursing Focus: Infection Prevention

- Aseptic Technique
- Create/Maintain Sterile Field
- Skin Prep
- Traffic Patterns
- Surgical Attire
- Instrument Processing
- Disinfection & Sterilization
- Scrubbing, Gowning and Gloving

Perioperative Nursing Focus: Anesthesia & Analgesia

- General anesthesia
- Spinal or regional anesthesia
- Moderate sedation
- Pain Management
- Malignant Hyperthermia
- Normothermia

Perioperative Nursing Focus:
Ethical and Legal Considerations

- Advanced Directives
- Informed Consent
- Language Services
- HIPPA
- Patient Privacy
- Patient Rights

Perioperative Nursing Focus: Coordinating Multidisciplinary Teams

- Departments
- Medical
- Nursing
- Other health care disciplines
- Health Care Industry Representative

The Perioperative Team
"Scrubbed Team"

- Surgeon

- Scrub person

- Surgical Assistant

The Perioperative Team
"Unscrubbed Team"

- Circulating Registered Nurse

- Anesthesia Care Provider

- Additional Staff

The Perioperative Team Additional Staff

- Specialty team leader
- Educator
- Advanced Practice Nurse
- Clinical Nurse Specialist
- Director of Surgical Services
- Ancillary personnel

The Perioperative Environment

- Traffic Patterns

- Surgical Attire

- Air Flow/Air Exchanges

- The Operating Room

The Perioperative Environment

- Traffic Patterns and Surgical Attire
  - Unrestricted
  - Semi restricted
  - Restricted

  - Air Flow and Exchanges

The Perioperative Environment
The Sterile Field

- **Sterile Field**
- Back Table
- Mayo Stand
- Ring Stand
- Microscope
- X-ray equipment
- Operating Room Bed

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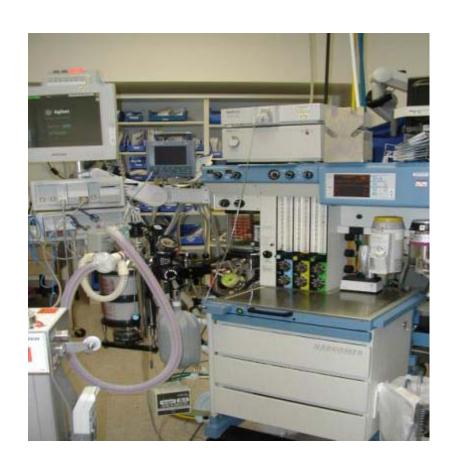- Microscope
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The Perioperative Environment Non-Sterile Field/Equipment

- **Anesthesia equipment**
- Prep table
- Kick buckets
- Laundry /waste hamper frames
- Suction canisters & frame
- ESU
- Endoscopy towers

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Perioperative Nursing is:

- Safe Environment of Care
- Core Nursing Competencies
- Specialty nursing with
  - Multiple sub specialty interests
  - All age groups
  - Low tech – high tech
  - Short procedures to complex, multi-specialty team procedures
  - Multiple career options
  - Multiple practice settings