

# OXYGENATION

### Assessment: Indicator of Oxygenation

- **Color**
  - Pale, cyanotic, dusky, mottled, yellow
- **Capillary refill**
  - Normal: < 2 sec
  - Prolonged: > 2 sec
- **Respiratory rate**
  - Normal: 12-20 /min
  - Tachypnea: > 20 /min
  - Bradypnea: < 12 /min
- **SpO2**
  - Normal: 95-100%
  - Hypoxemia: < 90%

### Changes in Respiratory Function

- **Respiratory distress**
  - Tachypnea, hyperinflation of chest, retractions, nasal flaring, grunting
- **Respiratory failure**
  - Hypoxemia, hypercapnia, acidosis
- **Respiratory arrest**
  - Apnea, cyanosis, pulseless

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# NUTRITION

### Assessment: Indicators of Nutrition

- **Weight**
  - Stable, increasing, decreasing
- **Appetite**
  - Good, fair, poor
- **Intake**
  - Adequate, inadequate
- **Output**
  - Normal, abnormal

### Changes in Nutritional Status

- **Malnutrition**
  - Undernutrition, overnutrition
- **Obesity**
  - Excessive weight gain
- **Starvation**
  - Excessive weight loss

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# ELECTROLYTE IMBALANCES

Electrolyte	Normal Range	Deficient	Excess
<b>Sodium</b>	135-145 mEq/L	Hyponatremia	Hypernatremia
<b>Potassium</b>	3.5-5.0 mEq/L	Hypokalemia	Hyperkalemia
<b>Calcium</b>	8.8-10.2 mg/dL	Hypocalcemia	Hypercalcemia
<b>Magnesium</b>	1.7-2.2 mg/dL	Hypomagnesemia	Hypermagnesemia
<b>Phosphorus</b>	2.5-4.5 mg/dL	Hypophosphatemia	Hyperphosphatemia
<b>Bicarbonate</b>	22-28 mEq/L	Metabolic acidosis	Metabolic alkalosis

# SKIN AND WOUND CARE

### Assessment: Indicators of Skin and Wound Care

- **Color**
  - Pale, red, cyanotic, dusky, mottled, yellow
- **Temperature**
  - Warm, cool, hot, cold
- **Texture**
  - Dry, moist, cracked, scaly, itchy
- **Integrity**
  - Intact, broken, open, closed

### Changes in Skin and Wound Care

- **Pruritus**
  - Itching
- **Erythema**
  - Redness
- **Edema**
  - Swelling

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  - Redness
- **Edema**
  - Swelling

# HYGIENE

### Assessment: Indicators of Hygiene

- **Hand hygiene**
  - Proper technique, frequency
- **Personal hygiene**
  - Bathing, grooming, oral care
- **Environmental hygiene**
  - Clean, safe, comfortable

### Changes in Hygiene

- **Hand hygiene**
  - Poor technique, infrequent
- **Personal hygiene**
  - Neglect, poor grooming
- **Environmental hygiene**
  - Dirty, unsafe, uncomfortable

### Assessment: Indicators of Hygiene

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  - Proper technique, frequency
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### Changes in Hygiene

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- **Personal hygiene**
  - Neglect, poor grooming
- **Environmental hygiene**
  - Dirty, unsafe, uncomfortable

# URINARY ELIMINATION

### Assessment: Indicators of Urinary Elimination

- **Voiding**
  - Frequency, volume, color, odor
- **Retention**
  - Inability to void
- **Incontinence**
  - Uncontrolled voiding

### Changes in Urinary Elimination

- **Voiding**
  - Decreased frequency, volume
- **Retention**
  - Urinary obstruction
- **Incontinence**
  - Urinary incontinence

### Assessment: Indicators of Urinary Elimination

- **Voiding**
  - Frequency, volume, color, odor
- **Retention**
  - Inability to void
- **Incontinence**
  - Uncontrolled voiding

### Changes in Urinary Elimination

- **Voiding**
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  - Urinary incontinence

# Pre Nursing Study Guide

**Patricia A. Potter, Anne G.  
Perry, Patricia A. Stockert, Amy  
Hall, Patricia Castaldi**

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### **Table of Contents Pre Nursing Study Guide**

1. Understanding the eBook Pre Nursing Study Guide
  - The Rise of Digital Reading Pre Nursing Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Pre Nursing Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Pre Nursing Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pre Nursing Study Guide
  - Personalized Recommendations

- Pre Nursing Study Guide User Reviews and Ratings
- Pre Nursing Study Guide and Bestseller Lists
- 5. Accessing Pre Nursing Study Guide Free and Paid eBooks
  - Pre Nursing Study Guide Public Domain eBooks
  - Pre Nursing Study Guide eBook Subscription Services
  - Pre Nursing Study Guide Budget-Friendly Options
- 6. Navigating Pre Nursing Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Pre Nursing Study Guide Compatibility with Devices
  - Pre Nursing Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pre Nursing Study Guide
  - Highlighting and Note-Taking Pre Nursing Study Guide
  - Interactive Elements Pre Nursing Study Guide
- 8. Staying Engaged with Pre Nursing Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pre Nursing Study Guide
- 9. Balancing eBooks and Physical Books Pre Nursing Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pre Nursing Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Pre Nursing Study Guide
  - Setting Reading Goals Pre Nursing Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pre Nursing Study Guide
  - Fact-Checking eBook Content of Pre Nursing Study Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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