

I. General

A. Psychology

1. Understanding Human Behavior

- a. Behavioral theories
 - (1) Maslow
 - (2) Erikson
- b. Defense mechanisms
 - (1) Common types
 - (2) Recognition and management

2. Human Growth and Development

- a. Normal developmental patterns/ milestones
- 3. Death and Dying Stages

B. Communication

1. Therapeutic/Adaptive Responses to Diverse Populations

- a. Visually impaired
- b. Hearing impaired
- c. Age specific
 - (1) Geriatric
 - (2) Pediatric/adolescent
- d. Seriously/terminally ill
- e. Intellectual disability
- f. Illiterate
- g. Non-English speaking
- h. Anxious/angry/distraught
- i. Socially/culturally/ethnically diverse

2. Nonverbal Communication

- a. Body language
 - (1) Posture
 - (2) Position
 - (3) Facial expression
 - (4) Territoriality/physical boundaries
 - (5) Gestures
 - (6) Touch

- (7) Mannerisms
- (8) Eye contact

3. Communication Cycle

- a. Sender-message-receiverfeedback
- b. Listening skills
 - (1) Active/therapeutic
- c. Assess level of understanding
 - (1) Reflection
 - (2) Restatement
 - (3) Clarification
 - (4) Feedback

d. Barriers to communication

- (1) Internal distractions
 - (a) Pain
 - (b) Hunger
 - (c) Anger
- (2) External/environmental distractions
 - (a) Temperature
 - (b) Noise

4. Collection of Data

- a. Types of questions
 - (1) Exploratory
 - (2) Open-ended
 - (3) Closed/Direct

5. Telephone Techniques

- a. Call management
 - (1) Screening/gathering data
 - (2) Emergency/urgent situations
- b. Messages
 - (1) Taking messages
 - (2) Leaving messages

6. Interpersonal Skills

- Displaying impartial conduct without regard to race, religion, age, gender, sexual orientation, socioeconomic status, physical challenges, special needs, lifestyle choices
- b. Recognizing stereotypes and biases

c. Demonstrating empathy/ sympathy/compassion

C. Professionalism

1. Professional Behavior

- a. Professional situations
 - (1) Displaying tact, diplomacy, courtesy, respect, dignity
 - (2) Demonstrating responsibility, integrity/honesty
 - (3) Responding to criticism
- b. Professional image

2. Performing as a Team Member

- a. Principles of health care team dynamics
 - (1) Cooperation for optimal outcomes
 - Identification of the roles and credentials of health care team members
- b. Time management principles
 - (1) Prioritizing responsibilities

D. Medical Law/Regulatory Guidelines

1. Advance Directives

- a. Living will
- Medical durable power of attorney
- c. Patient Self-Determination Act (PSDA)

2. Uniform Anatomical Gift Act

- 3. Occupational Safety and Health Administration (OSHA)
- 4. Food and Drug Administration (FDA)
- Clinical Laboratory Improvement Act (CLIA '88)
- 6. Americans with Disabilities Act Amendments Act (ADAAA)

7. Health Insurance Portability and **Accountability Act (HIPAA)**

- a. Health insurance portability access and renewal without preexisting conditions
- b. Coordination of care to prevent duplication of services

8. Health Information Technology for Economic and Clinical Health (HITECH) Act

a. Patient's right to inspect, amend and restrict access to his/her medical record

9. Drug Enforcement Agency (DEA)

a. Controlled Substances Act of

10. Medical Assistant Scope of **Practice**

a. Consequences of failing to operate within scope

11. Genetic Information **Nondiscrimination Act of 2008** (GINA)

12. Centers for Disease Control and Prevention (CDC)

13. Consumer Protection Acts

- a. Fair Debt Collection Practices
- b. Truth in Lending Act of 1968 (Regulation Z)

14. Public Health and Welfare **Disclosure**

- a. Public health statutes
 - (1) Communicable diseases
 - (2) Vital statistics
 - (3) Abuse/neglect/exploitation against child/elder
 - (a) Domestic abuse
 - (4) Wounds of violence

15. Confidentiality

- a. Electronic access audit/activity
- b. Use and disclosure of personal/ protected health information (PHI)
 - (1) Consent/authorization to release
 - (2) Drug and alcohol treatment records
 - (3) HIV-related information
 - (4) Mental health

16. Health Care Rights and Responsibilities

- a. Patients' Bill of Rights/Patient Care Partnership
- b. Professional liability
 - (1) Current standard of care
 - (2) Standards of conduct
 - (3) Malpractice coverage
- c. Consent to treat
 - (1) Informed consent
 - (2) Implied consent
 - (3) Expressed consent
 - (4) Patient incompetence
 - **Emancipated minor**
 - (6) Mature minor

17. Medicolegal Terms and Doctrines

- a. Subpoena duces tecum
- b. Subpoena
- c. Respondeat superior
- d. Res ipsa loquitor
- e. Locum tenens
- f. Defendant-plaintiff
- g. Deposition
- h. Arbitration-mediation
- i. Good Samaritan laws

18. Categories of Law

- a. Criminal law
 - (1) Felony/misdemeanor
- b. Civil law
 - (1) Contracts (physician-patient relationships)
 - (a) Legal obligations to the patient
 - (b) Consequences for patient noncompliance
 - (c) Termination of medical care
 - (i) Elements/behaviors for withdrawal of care
 - Patient notification and documentation
 - (d) Ownership of medical records
 - (2) Torts
 - (a) Invasion of privacy
 - (b) Negligence
 - (c) Intentional torts
 - (i) Battery
 - (ii) Assault
 - (iii) Slander
 - (iv) Libel
- c. Statutory law
 - (1) Medical practice acts
- d. Common law (Legal precedents)

E. Medical Ethics

- 1. Ethical Standards
- 2. Factors Affecting Ethical **Decisions**
 - a. Legal
 - b. Moral

F. Risk Management, Quality Assurance, and Safety

- 1. Workplace Accident Prevention
 - a. Slips/trips/falls
- 2. Safety Signs, Symbols, Labels
- 3. Environmental Safety
 - a. Ergonomics
 - b. Electrical safety
 - c. Fire prevention/extinguisher use/ regulations

4. Compliance Reporting

- a. Reporting unsafe activities and behaviors
- b. Disclosing errors in patient care
- c. Insurance fraud, waste, and abuse
- d. Conflicts of interest
- e. Incident reports

G. Medical Terminology

- 1. Word Parts
 - a. Basic structure
 - (1) Roots/combining forms
 - (2) Prefixes
 - (3) Suffixes

2. Definitions/Medical Terminology

- a. Diseases and pathologies
- b. Diagnostic procedures
- c. Surgical procedures
- d. Medical specialties

II. Administrative

H. Medical Reception

- 1. Medical Record Preparation
- 2. Demographic Data Review
 - a. Identity theft prevention
 - b. Insurance eligibility verification

3. Handling Vendors/Business **Associates**

4. Reception Room Environment

- a. Comfort
- b. Safety
- c. Sanitation

5. Practice Information Packet

- a. Office policies
- b. Patient financial responsibilities

I. Patient Navigator/ **Advocate**

1. Resource Information

- a. Provide information about community resources
- b. Facilitate referrals to community resources
- c. Referral follow-up

J. Medical Business **Practices**

1. Written Communication

- a. Letters
- b. Memos/interoffice communications
- c. Reports

2. Business Equipment

- a. Routine maintenance
- b. Safety precautions

3. Office Supply Inventory

a. Inventory control/recordkeeping

4. Electronic Applications

- a. Medical management systems
 - (1) Database reports
 - (2) Meaningful use regulations
- b. Spreadsheets, graphs
- c. Electronic mail
- d. Security
 - (1) Password/screen saver
 - (2) Encryption
 - (3) Firewall
- e. Transmission of information
 - (1) Facsimile/scanner
 - (2) Patient portal to health data
- f. Social media

K. Establish Patient Medical Record

1. Recognize and Interpret Data

- a. History and physical
- b. Discharge summary
- c. Operative note
- d. Diagnostic test/lab report
- e. Clinic progress note
- f. Consultation report
- g. Correspondence
- h. Charts, graphs, tables
- i. Flow sheet

2. Charting Systems

- a. Problem-oriented medical record (POMR)
- b. Source-oriented medical record (SOMR)

L. Scheduling Appointments

1. Scheduling Guidelines

- a. Appointment matrix
- b. New patient appointments
 - (1) Identify required information
- c. Established patient appointments
 - (1) Routine
 - (2) Urgent/emergency
- d. Patient flow
 - (1) Patient needs/preference
 - (2) Physician preference
 - (3) Facility/equipment requirements
- e. Outside services (e.g., lab, X-ray, surgery, outpatient procedures, hospital admissions)

2. Appointment Protocols

- a. Legal aspects
- b. Physician referrals
- c. Cancellations/no-shows
- d. Physician delay/unavailability
- e. Reminders/recall systems
 - (1) Appointment cards
 - (2) Phone calls/text messages/e-mail notifications
 - (3) Tickler file

M. Practice Finances

1. Financial Terminology

- a. Accounts receivable
- b. Accounts payable

- c. Assets
- d. Liabilities
- e. Aging of accounts
- Debits
- g. Credits
- h. Diagnosis Related Groups (DRGs)
- i. Relative Value Units (RVUs)

2. Financial Procedures

- a. Payment receipts
 - (1) Co-pays
- b. Data entry
 - (1) Post charges
 - (2) Post payments
 - (3) Post adjustments
- c. Manage petty cash account
- d. Financial calculations
- e. Billing procedures
 - (1) Itemized statements
 - (2) Billing cycles
- f. Collection procedures
 - (1) Aging of accounts
 - (2) Preplanned payment options
 - (3) Credit arrangements
 - (4) Use of collection agencies

3. Diagnostic and Procedural **Coding Applications**

- a. Current Procedural Terminology (CPT)
 - (1) Modifiers
 - (2) Upcoding
 - (3) Bundling of charges
- b. International Classification of Diseases, Clinical Modifications (ICD-CM) (Current schedule)
- c. Linking procedure and diagnosis codes
- d. Healthcare Common Procedure Coding System (HCPCS Level II)

4. Third-Party Payers/Insurance

- a. Types of plans
 - (1) Commercial plans
 - (2) Government plans
 - (a) Medicare
 - (i) Advance Beneficiary Notice (ABN)
 - (b) Medicaid
 - (c) TRICARE/CHAMPVA
 - (3) Managed care organizations (MCOs)
 - (a) Managed care requirements
 - (i) Care referrals

- (ii) Precertification
 - [a] Diagnostic and surgical procedures
- (iii) Prior authorization
 - [a] Medications
- (4) Workers' compensation
- b. Insurance claims
 - (1) Submission
 - (2) Appeals/denials
 - (3) Explanation of benefits (EOB)

III. Clinical

N. Anatomy and Physiology

1. Body as a Whole

- a. Structural units
- b. Anatomical divisions, body cavities
- c. Anatomical positions and directions
- d. Body planes, quadrants

2. Body Systems Including Normal Structure, Function, and Interrelationships Across the Life Span

- a. Integumentary
- b. Musculoskeletal
- c. Nervous
- d. Cardiovascular, hematopoietic, and lymphatic
- e. Respiratory
- f. Digestive
- g. Urinary
- h. Reproductive
- i. Endocrine
- j. Sensory

3. Pathophysiology and Diseases of Body Systems

- a. Integumentary
- b. Musculoskeletal
- c. Nervous
- d. Cardiovascular, hematopoietic, and lymphatic
- e. Respiratory
- f. Digestive
- g. Urinary
- h. Reproductive
- i. Endocrine
- j. Sensory

O. Infection Control

1. Infectious Agents

- a. Bacteria
- b. Viruses
- c. Protozoa
- d. Fungi
- e. Parasites

2. Modes of Transmission

- a. Direct
- b. Indirect
- c. Airborne
- d. Droplet
- e. Inhalation

3. Infection Cycle/Chain of Infection

4. Body's Natural Barriers

5. Medical Asepsis

- a. Hand hygiene
 - (1) Hand washing
 - (2) Alcohol-based hand rub
- b. Sanitization
- c. Disinfection

6. Surgical Asepsis

- a. Surgical scrub
- b. Sterilization techniques/ Autoclave
 - (1) Preparing items
 - (2) Wrapping
 - (3) Sterilization indicators

7. Standard Precautions/Blood-Borne Pathogen Standards

- a. Body fluids
- b. Secretions
- c. Excretions
- d. Blood
 - (1) HIV-HBV-HCV
- e. Mucous membranes
- f. Personal protective equipment (PPE)
 - (1) Gowns
 - (2) Gloves
 - (3) Masks
 - (4) Caps
 - (5) Eye protection
- g. Post-exposure plan

8. Biohazard Disposal/Regulated Waste

- a. Sharps
- b. Blood and body fluids

- c. Safety data sheets (SDS)
- d. Spill kit

P. Patient Intake and Documentation of Care

1. Medical Record Documentation

- a. Subjective data
 - (1) Chief complaint
 - (2) Present illness
 - (3) Past medical history
 - (4) Family history
 - (5) Social and occupational history
 - (6) Review of systems
- b. Objective data
- c. Making corrections
- d. Treatment/compliance

Q. Patient Preparation and Assisting the Provider

1. Vital Signs/Anthropometrics

- a. Blood pressure
 - (1) Technique
 - (2) Equipment
 - (a) Stethoscope
 - (b) Sphygmomanometer
- b. Pulse
 - (1) Technique
 - (a) Pulse points
 - (b) Rate and rhythm
- c. Height/weight/BMI
 - (1) Technique
 - (2) Equipment
- d. Body temperature
 - (1) Technique
 - (2) Equipment
- e. Oxygen saturation/pulse oximetry
 - (1) Technique
- (2) Equipment
- f. Respiration rate
- (1) Technique

2. Recognize and Report Age-Specific Normal and Abnormal Vital Signs

3. Examinations

- a. Methods
 - (1) Auscultation
 - (2) Palpation(3) Percussion
 - (4) Mensuration

- (5) Manipulation
- (6) Inspection
- b. Body positions/draping
 - (1) Sims
 - (2) Fowlers
 - (3) Supine
 - (4) Knee-chest
 - (5) Prone
 - (6) Lithotomy
 - Dorsal recumbent
- c. Pediatric exam
 - (1) Growth chart
 - (a) Measurements
 - (i) Techniques
- d. OB-GYN exam
 - Pelvic exam/PAP smear
 - (2) Prenatal/postpartum exams

4. Procedures

- a. Procedure explanation and patient instructions
- b. Supplies, equipment, and techniques
 - (1) Eye irrigation
 - (2) Ear irrigation
 - (3) Dressing change
 - (4) Suture/staple removal
 - (5) Sterile procedures
 - (a) Surgical assisting
 - (b) Surgical tray prep
 - (c) Antiseptic skin prep
 - (d) Sterile field boundaries
 - (e) Surgical instruments
 - (i) Classifications
 - (ii) Instrument use

5. Patient Education/Health Coach

- a. Health maintenance and disease prevention
 - (1) Diabetic teaching and home care
 - (a) Home blood sugar monitoring
 - (2) Instruct on use of patient mobility equipment and assistive devices
 - (3) Pre-/post-op care instructions
 - (4) Patient administered medications
 - (5) Home blood pressure monitoring and lifestyle controls
 - (6) Home anticoagulation monitoring
 - (7) Home cholesterol monitoring
- b. Alternative medicine

6. Wellness/Preventive Care

- a. Cancer screening
- b. Sexually transmitted infections
- c. Hygienic practices
 - (1) Hand washing

- (2) Cough etiquette
- d. Smoking risks and cessation
- e. Recognition of substance abuse
- f. Osteoporosis screening/bone density scan
- g. Domestic violence screening and detection

R. Nutrition

1. Basic Principles

- a. Food nutrients
 - (1) Carbohydrates
 - (2) Fats
 - Proteins (3)
 - (4) Minerals/electrolytes
 - Vitamins (5)
 - (6) Fiber
 - Water (7)
- b. Dietary supplements

2. Special Dietary Needs

- a. Weight control
- b. Diabetes
- c. Cardiovascular disease
- d. Hypertension
- e. Cancer
- f. Lactose sensitivity/intolerance
- g. Gluten free
- h. Food allergies

3. Eating Disorders

S. Collecting and Processing **Specimens**

1. Methods of Collection

- a. Blood
 - (1) Venipuncture
 - (a) Site selection
 - (b) Site prep
 - (c) Equipment
 - (i) Evacuated tubes
 - (ii) Tube additives
 - (iii) Needles
 - (2) Capillary/dermal puncture
- b. Urine
 - (1) Random
 - Midstream/clean catch
 - (3) Timed 24-hour collection
 - Catheterization
 - (5) Pediatric urine collector
- c. Fecal specimen
- d. Sputum specimen

- e. Swabs
 - Throat
 - (2) Genital
 - Wound
 - Nasopharyngeal

2. Prepare, Process, and Examine **Specimens**

- a. Proper labeling
- b. Sources of contamination
- c. Specimen preservation
 - (1) Refrigeration
 - (2) Fixative
- d. Recordkeeping
- e. Incubator
- f. Centrifuge
- g. Microscope
- h. Inoculating a culture
- i. Microbiologic slides
 - (1) Wet mount

Laboratory Quality Control/ Quality Assurance

- a. Testing protocols
- b. Testing records and performance logs
- c. Daily equipment maintenance
- d. Calibration
- e. Daily control testing
- f. Monitor temperature controls
- g. Reagent storage
- h. CLIA-waived tests

4. Laboratory Panels and **Performing Selected Tests**

- a. Urinalysis
 - (1) Physical
 - (2) Chemical
 - (3) Microscopic
 - (4) Culture

b. Hematology panel

- (1) Hematocrit
- (2) Hemoglobin
- (3) Erythrocyte sedimentation rate
- (4) Automated cell counts
 - (a) Red blood cell (RBC)
 - (b) White blood cell (WBC)
 - (c) Platelet
- (5) Coagulation testing/INR
- c. Chemistry/metabolic testing
 - (1) Glucose
 - (2) Kidney function tests
 - Liver function tests
 - Lipid profile
 - Hemoglobin A1c

- d. Immunology
 - (1) Mononucleosis test
 - (2) Rapid Group A Streptococcus test
 - (3) C-reactive protein (CRP)
 - (4) HCG pregnancy test
 - (5) H. pylori
 - (6) Influenza
- e. Fecal occult blood/guaiac testing

T. Diagnostic Testing

1. Cardiovascular Tests

- a. Electrocardiography (EKG/ECG)
 - (1) Perform standard 12-lead
 - (2) Lead placement
 - (3) Patient prep
 - (4) Recognize artifacts
 - (5) Recognize rhythms, arrhythmias
 - (6) Rhythm strips
- b. Holter monitors
- c. Cardiac stress test

2. Vision Tests

- a. Color
- b. Acuity/distance
 - (1) Snellen
 - (2) E chart
 - (3) Jaeger card
- c. Ocular pressure
- d. Visual fields

3. Audiometric/Hearing Tests

- a. Pure tone audiometry
- b. Speech and word recognition
- c. Tympanometry

4. Allergy Tests

- a. Scratch test
- b. Intradermal skin testing

5. Respiratory Tests

- a. Pulmonary function tests (PFT)
- b. Spirometry
- c. Peak flow rate
- d. Tuberculosis tests/purified protein derivative (PPD) skin
- 6. Distinguish Between Normal/ **Abnormal Laboratory and Diagnostic Test Results**

U. Pharmacology

(For the 50 most commonly used medications, see the "Top 200 Drugs" at www.rxlist.com)

Medications

- a. Classes of drugs
- b. Drug actions/desired effects
- c. Adverse reactions
- d. Physicians' Desk Reference (PDR)
- e. Storage of drugs

2. Preparing and Administering **Oral and Parenteral Medications**

- a. Dosage
 - (1) Metric conversion
 - (2) Units of measurements
 - (3) Calculations
- b. Routes of administration
 - (1) Intramuscular
 - (a) Z-tract
 - (2) Subcutaneous
 - (3) Oral/sublingual/buccal
 - (4) Topical
 - Inhalation
 - Instillation (eye-ear-nose)
 - Intradermal
 - Transdermal
 - (9) Vaginal
 - (10) Rectal
- c. Injection site
 - (1) Site selection
 - (2) Needle length and gauge
- d. Medication packaging
 - (1) Multidose vials
 - (2) Ampules
 - (3) Unit dose
 - (4) Prefilled cartridge-needle units
 - (5) Powder for reconstitution

e. Six Rights of Medication Administration

Right patient, right drug, right route, right time, right dose, right documentation

3. Prescriptions

- a. E-prescribing
- b. Controlled substance guidelines

Medication Recordkeeping

a. Reporting/documenting errors

5. Immunizations

- a. Childhood
- b. Adult
- c. Recordkeeping
 - (1) Vaccine information statement (VIS)
- d. Vaccine storage

V. Emergency Management/ **Basic First Aid**

1. Assessment and Screening

- a. Treatment algorithms/flow charts
- b. Triage algorithms/flow charts

2. Identification and Response to **Emergencies**

- a. Bleeding/pressure points
- b. Burns
- c. Cardiac and respiratory arrest
- d. Foreign body obstruction
- e. Choking
- Diabetic ketoacidosis
- a. Insulin shock
- h. Bone fractures
- Poisoning
- Seizures
- k. Shock
- I. Cerebral vascular accident (CVA)
- m. Syncope
- n. Vertigo
- o. Wounds
- p. Cold exposure
- q. Heat exposure
- r. Joint dislocations/sprains/strains
- s. Asthmatic attack
- Hyperventilation
- u. Animal bite
- v. Insect bite w. Concussion

3. Office Emergency Readiness

- a. Equipment
 - (1) Crash cart supplies
 - (2) Automated external defibrillator
- b. Emergency response plan
 - (1) Evacuation plan



website: www.aama-ntl.org

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