



Sick Call Screener Course

Pharmacology/Medical Therapeutics

(2.13)

R³

Relevant, Responsive, Requested

2.13-2-1



Enabling Objectives

- 1.70 State generic and trade names of common sick call medications while assisting in the development of a patient treatment plan
- 1.71 State indications and contraindications of common sick call medications while assisting in the development of a patient treatment plan
- 1.72 Discuss side effects of common sick call medications while assisting in the development of a patient treatment plan
- 1.73 Explain medication administration procedures and principles while assisting in the development of a patient treatment plan



Introduction

- One of the most important jobs
- Executing orders
- Vital role in continuum of care
- Multidisciplinary team
- Optimum care



Common Forms

- NAVMED 6710/6
- DD 1289

FOR (Mechanically Imprint, Type or Print Full Name)				POLY PRESCRIPTION NOTE: CONTROLLED SUBSTANCES MUST BE PRESCRIBED ON DD FORM 1289, DOD PRESCRIPTION, AND MUST BE FILED IN A SEPARATE FILE.	
AGE (if under 12)				DATE:	MEDICAL FACILITY UCA CODE:
PRESCRIBER'S STAMP					
DRUG NAME	STRENGTH	NUMBER	REFILLS	DIRECTIONS	PRESCRIPTION NUMBER
1 _____					LOT/MFGR. _____ FILLED BY: _____
2 _____					LOT/MFGR. _____ FILLED BY: _____
3 _____					LOT/MFGR. _____ FILLED BY: _____
4 _____					LOT/MFGR. _____ FILLED BY: _____
SIGNATURE OF PRESCRIBER		GRADE	DEGREE (MD,DDS, ect.)	SOCIAL SECURITY NUMBER	CHECKED BY:

NAVMED 6710/6

NAVMED 6710/6 (Rev. 3-84)

S/N 0105-LF-206-7130

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2.13-2-4



Pharmacokinetics

- What the body does to a drug
- Movement into, through and out of the body
 - Absorption, Bioavailability, Distribution, Metabolism, Excretion



Drug Absorption

- Physicochemical properties
- Dosage forms
 - Tablets
 - Solutions
- Various routes
 - Oral
 - Parenteral



Drug Bioavailability

- Extent and rate at which drug enters systemic circulation
- Determined on properties of the drug
 - Design
 - Manufacture
- Differences can have clinical significance



Drug Distribution

- Distributed to body's tissues
- Uneven distribution
 - Blood perfusion
 - Tissue binding
- Rate of entry varies
 - Blood flow
 - Tissue mass



Drug Distribution (Cont.)

- Distribution equilibrium
 - Entry and exit rates are the same
- Drug distribution to interstitial fluid determined by perfusion
- Poorly perfused tissues
 - Distribution is slow



Drug Metabolism

- Liver is the principal site
- Metabolized by
 - Oxidation
 - Hydrolysis
- Drug metabolism vary among patients
 - Influenced by genetic factors
 - Coexisting disorders



Drug Excretion

- Two ways to excretion
 - Kidneys
 - Water soluble substances
 - Biliary
- Intestine, saliva, sweat lungs contribution is small
 - Except for exhalation of volatile anesthetics



Common Medications

- ALL CAPS = serious or life threatening condition
- *Italics* = the most common condition



Penicillin V-K

- Indications
 - Treats a wide variety of infections
- Route
 - PO = adults
- Adverse reactions/Side effects
 - SEIZURES
 - GI = *diarrhea, nausea, vomiting*



STAT!Ref: Clinical Checklist, Lab Advisor
& Drugpoints System,
<https://online.statref.com/>



Azithromycin

- Indications
 - Upper and lower respiratory infections
 - Gonorrhea
- Routes
 - PO & IV
- Adverse reactions/Side effects
 - Dizziness, seizures, anemia



STAT!Ref: Davis's Drug Guide for Nurses,
<https://online.statref.com/>



Trimethoprim

- Indications
 - Bronchitis, Otitis media, UTI
- Routes
 - PO & IV
- Adverse reactions/Side effects
 - Hypotension, hallucinations, insomnia



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System, <https://online.statref.com/>

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Relevant, Responsive, Requested

2.13-2-15



Promethazine

- Indications
 - Allergic conditions & motion sickness
 - Preoperative sedation
- Routes
 - PO, IM, IV & Rectal
- Adverse reaction/Side effect
 - Confusion, constipation, dry mouth



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System, <https://online.statref.com/>

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2.13-2-16

Relevant, Responsive, Requested



Benadryl

- Indications
 - Relief allergic symptoms, mild sedation
 - Prevention of motion sickness
- Routes
 - PO, IM, IV & Topical
- Adverse reactions/Side effects
 - Drowsiness, blurred vision, *dry mouth*



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System, <https://online.statref.com/>



Hydrochlorothiazide

- Indications
 - Management of hypertension
 - Treatment of edema
- Route: PO
- Adverse reaction/Side effects
 - Lethargy, hypotension, hyperglycemia



STAT!Ref: Davis's Drug Guide for Nurses, <https://online.statref.com/>

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Relevant, Responsive, Requested

2.13-2-18



Lidocaine

- Indications
 - Topical anesthetic
- Routes
 - Infiltration, topical, patch
- Adverse reactions/Side effects
 - Arrhythmias, allergic reactions



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System, <https://online.statref.com/>



Aspirin

- Indications
 - Inflammatory disorders, mild to moderate pain, fever
- Routes
 - PO & Rectal
- Adverse reactions/Side effects
 - Nausea, vomiting, allergic reaction



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System, <https://online.statref.com/>



Acetaminophen

- Indications
 - Pain and fever
- Routes
 - PO & IV
- Adverse reaction/Side effects
 - Renal failure



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System, <https://online.statref.com/>



Ibuprofen

- Indications
 - Mild to moderate pain, inflammatory diseases
- Routes
 - PO & IV
- Adverse Reactions/Side Effects
 - STROKE, GI BLEEDING, ANAPHYLAXIS, renal failure



STAT!Ref: Davis's Drug Guide for Nurses, <https://online.statref.com/>



Naproxen

- Indications
 - Mild to moderate pain, inflammatory disorders
- Route
 - PO
- Adverse Reaction/Side effects
 - STROKE, GI BLEEDING, *constipation*



STAT!Ref: Davis's Drug Guide for Nurses,
<https://online.statref.com/>



Meloxicam

- Indications
 - osteoarthritis and rheumatoid arthritis
- Route: PO
- Adverse Reactions/Side effects
 - MYOCARDIAL INFARCTION
 - anemia leukopenia



STAT!Ref: Clinical Checklist, Lab
Advisor & Drugpoints System,
<https://online.statref.com/>

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2.13-2-24



Cyclobenzaprine

- Indications
 - Management of acute painful musculoskeletal conditions
 - fibromyalgia
- Route: PO
- Adverse reactions/Side effects
 - Dizziness, dry mouth, arrhythmia



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System, <https://online.statref.com/>

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2.13-2-25



Methocarbamol

- Indications
 - treats muscle spasms associated with painful musculoskeletal conditions
- Route:
 - PO, IM, IV
- Adverse reactions/Side effect
 - SEIZURES, blurred vision
 - brown, black or green urine



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System, <https://online.statref.com/>



Silvadene

- Indications
 - Prevention and treatment of wound sepsis
- Route: Topical
- Adverse reactions/
Side effects
 - Burning, itching, pain, rash, skin discoloration



STAT!Ref: Clinical Checklist, Lab Advisor & Drugpoints System,
<https://online.statref.com/>



Documentation (Cont.)

- Parenteral Medication
 - Six rights
 - Patient's response
 - Unexpected outcomes and related nursing interventions
 - Patient and family education
 - Comfort assessment
 - Interventions provided



Documentation (Cont.)

- Topical Medication
 - Actual time of administration
 - Type of agent used and site of application
 - Skin condition before application
 - Patient's response
 - Withheld medications
 - Date and time dressing change
 - Unexpected outcomes



Documentation (Cont.)

- Rectal Medication
 - Six rights
 - Patient's weight
 - Patient's response
 - Reason medication was withheld
 - Patient and family education
 - Unexpected outcomes

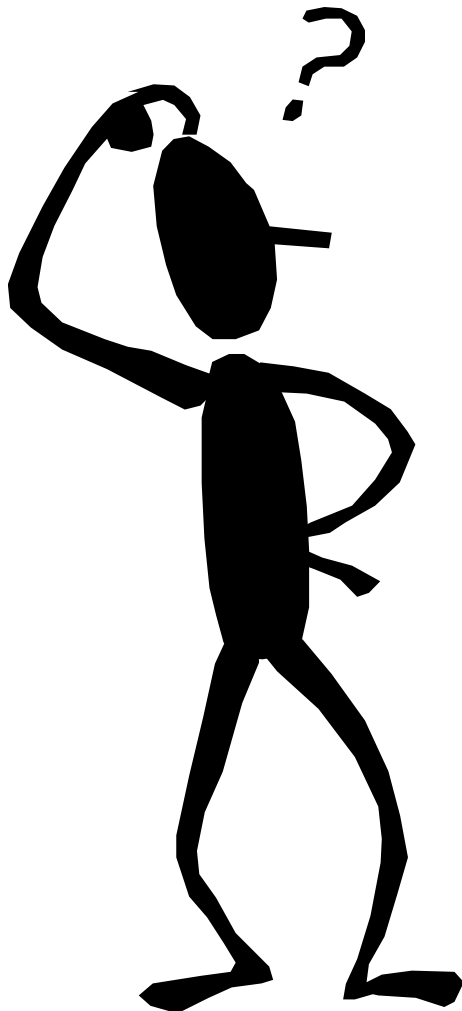


Summary and Review

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Questions



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Assignment

- Assignment Sheet SCSC 2.13-3,
Pharmacology/Medical Therapeutics