

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

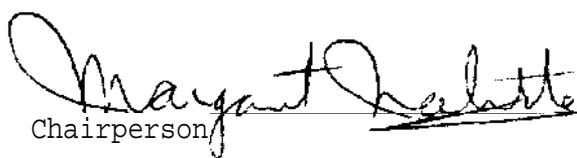
COURSE OUTLINE

Course Title: NURSING PRACTICE THEORY 2B
Code No.: NUR 224-4
Program: NURSIRIG
Semester: FOUR
Ddte: 1984-1985
Author: NURSING DEPARTMENT FACULTY

New:

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APPROVED:


Chairperson

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SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

DIPLOMA NURSING PROGRAM

NURSING PRACTICE THEORY -K'^-~~~~~'^-

UNIT: OXYGEN AND CIRCULATION

YEAR 2. SEMESTER 4

1984-85

Required Readings:

1. Whaley and Wong. Nursing Care of Infants and Children. Mosby. 2nd ed.

Chapters 32
33
35
36

2. Brunner and Suddarth. Medical-Surgical Nursing. Lippincott. 1984.

Chapters 5 - pp. - 63- 69
- 71- 78
22 - pp. - 421-431
23 - pp. - 439-452
24 - pp. - 454-465
- 468-471
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26 - pp. - 507-532
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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
DIPLOMA NURSING PROGRAM
YEAR 2, SEMESTER 4
NURSING PRACTICE THEORY - NUR 204 .^7^-
UNIT: OXYGEN AND CIRCULATION

1984-85

OBJECTIVES

Given case situations illustrating clients responses the student will be able to:

ASSESSMENT

1. Demonstrate first level assessment of ineffective responses associated with alterations in oxygen and circulation.

CONTENT GUIDE

A. OXYGEN RESPONSES

- ^' Respirations (see 1st year)
- alterations in respiratory patterns
 - secretions
 - pain on inspiration/expiration
 - breath sounds
 - vesicular
 - bronchovesicular
 - bronchial
 - adventitious

Chest/Thorax

- shape - concave/convex
- scars
- crepitation

2. Responses in Other Modes

a) Exercise and Rest

- " posture/positioning
- response to activity/stress
 - fatigue, lethargy
 - alterations in sleep patterns
 - skin: trophic changes, cyanosis
eg. circumoral pallor
 - extremities: clubbing

LEARNING ACTIVITIES

OXYGEN AND CIRCULATION

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OBJECTIVES

CONTENT GUIDE

1984-85
LEARNING ACTIVITIES

- b) Nutrition
 - alteration in eating patterns
- c) Neuro
 - changes in level of consciousness/mental functioning
 - Irritability, restlessness
 - pupil activity
- d) Fluid and Electrolytes
 - respiratory/metabolic - alkalosis/acidosis
- ^^ interdependence
 - changes in speech patterns (verbal, nonverbal)
 - Increased dependence
- f) Role Function
 - changes in role behaviours
- g) Self Concept
 - powerlessness
 - fear
 - loss
 - anxiety
 - guilt
- 3. Diagnostic Tests
 - sputum/nasal/throat specimen
 - arterial blood gases
 - venous blood specimens: CBC, lytes
 - pulmonary function tests

OXYGEN AND CIRCULATION

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1984-85

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- chest x-ray
- lung scan
- lung biopsy
- thorarntesis

4- Subjective Complaints

B. CIRCULATION

1. a) Pulse: (see 1st year)
 - PMI
 - arrythmias
- b) Heart
 - heart sounds
 - venous distention,
eg. jugular
- c) Blood Pressure
 - hyper/hypo
 - idiopathic/postural
- d) Blood/Fluid Loss
 - amount
 - colour
 - origin

2. Responses in Other Modes

Exercise and Rest

(see oxygen responses)

- skin: changes in colour,
temperature, perspiration,
size of body part, changes
in hair growth
- extremities: clubbing,
muscle atrophy/spasm
- nails: colour, thickening,
blanching

Objectives

CONTENT

Nutrition

- altered nutritional requirements/eating pattern

Neuro

(see oxygen responses)

Elimination

- increase/decrease of urinary output
- altered bowel patterns

Fluid and Electrolytes

(see oxygen responses)

- venous distention
- edema

Sensory

- pain-intermittent claudication, angina, myocardial, headache, Homan's Sign
- numbness
- tingling
- paresthesia

3, Diagnostic Tests

- heart catheterization
- echocardiogram
- electrocardiogram
- angiogram
- stress test
- doppler
- chest X-ray
- venous blood specimens: cardiac enzymes, CBC-differential, electrolytes

OBJECTIVES

CONTENT GUIDE

2. Identify factors that influence the client's

A. Upper respiratory tract

- . strep throat
- ^ sinusitis
- pharyngitis

- croup
- aspiration
- pneumonia
- asthma

- empyema
- , bronchiectasis
- COPD
- . bronchitis

OXYGEN AND CIRCULATION

OBJECTIVES

CONTENT GUIDE

LEARNING ACTIVITIES

B. Circulation

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- myocardial infarction
- myocardial Ischemia
- cardiac arrhythmias
- congestive heart failure
- congenital heart disease
 - ayanotic defects
 - cyanotic defects
- cor pulmonale
- pulmonary edema
- angina
- diseases of the arteries
- vein disorders
- lymphatic disorders
- hypertension
- rhuematic fever
- hemorrhage
- ASHD

- thrombosis, phlebitis
- 1. Health Care Delivery
 - blood component changes
 - antigen-antibody reaction
 - surgery
 - drug overdose
 - invasive techniques

C. External

- drug therapy (see below)

Oxygen

- bronchodilators, expectorants, antitussives, antibiotics, decongestants

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OBJECTIVES

CONTENT GUIDE

LEARNING ACTIVITIESCirculation

-cardiotonic glycosides, anti-
arrhythmics, antihypertensives/
diuretics, vasodilators,
adrenergics, anticoagulants,
spasmodics, Rho Gam

3. Demonstrate how to determine the adaptation level of the client.
4. Identify essential responses and stimuli related to each nursing diagnosis.
5. Identify nursing diagnoses that are consistent with and supported by assessment data

1, Oxygen

- a) Ineffective airway clearance
- b) Ineffective breathing patterns

2. Circulation

- a) Alteration of cardiac output
- b) Alteration in peripheral/cerebral perfusion
- c) Potential/Actual hemorrhage

PLANNING

Determine goals that will change ineffective behaviours and reinforce behaviours which promote or maintain adaptation in oxygen and circulation.

- a) maintenance of oxygen to all cells
- b) prevention of physical injury as a result of cardiovascular inefficiency
- c) maintenance of a balance of exercise and rest specific to the individual

OXYGEN AND CIRCULATION

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OBJECTIVES

CONTENT

1984-85
LEARNING ACTIVITIES

- d) an awareness of learning needs and alternate avenues in lifestyle

INTERVENTION

- 7. Identify nursing Interventions and demonstrate selected skills that assist the client to regain adaptation in oxygen and circulation.

A. Data

- 1. Physical Assessment
 - interview
 - Inspection/observation
 - palpation
 - auscultation
- 2. Chart
 - physician's notes
 - lab tests
- 3. Family/Significant Others
 - pertinent Information

B. Therapeutic

- 1. IV infusion therapy
 - blood
 - plasma
 - packed cells
 - platelets

Awareness of adverse reactions to blood transfusion therapy with appropriate treatment
- 2. Preparation for specific diagnostic procedures, eg.
 - bronchoscopy
 - echocardiogram
 - stress test

OBJECTIVES

CONTENT (GUIDE)

1984-85
LEARNING ACTIVITIES

- pulmonary function test
 - bone marrow
3. Provision of oxygen therapy
 - mask
 - cannula
 - catheter
 4. Provision of postural drainage
 - clapping
 - vibration
 - positioning
 5. Suctioning techniques
 - nasal
 - oral
 - oropharyngeal
 - nasopharyngeal
 6. Promotion of blood flow and venous return
 - positioning of client
 - elastic stockings, ace bandages
 - application of heat and cold
 - rotating tourniquets
 7. Pre and post-op management specific to vascular surgery
 8. Nursing implications involved with the administration of drug therapy

OXYGEN AND CIRCULATION

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OBJECTIVES

CONTENT GUIDE

1984-85
LEARNING ACTIVITIES

C. Teaching

Education of family members

ie. CPR

Promotion of adequate circulation

Pursed-lip breathing

Abdominal diaphragmatic
breathing

Drugs

Increasing activity regime

Diet

Risk Factors

D. Referrals

Canadian/Ontario Heart Foundation

Algoma Lung Association

Canadian Cancer Society

Algoma Interagency Council on
Smoking

PHN

Physiotherapist

Respiratory therapist

YMCA - post MI rehab program

8. Identify which of the above nursing interventions are independent or interdependent functions.

EVALUATION

9. Evaluate outcome of nursing interventions based on achievement of goals.

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