# Cheatography

# Pneumonia Cheat Sheet by harpieee via cheatography.com/71374/cs/18469/

# PNEUMONIA

An inflammatory process in the lungs that produces excess fluid and exudate that fill the alveoli

Classified as bacterial, viral, fungal, or chemical

Pneumonia is triggered by infectious organisms or by the aspiration of an irritant, such as fluid or a foreign object

Can be a primary disease of a complication of another disease or condition

Young clients, older adult clients, and clients who are immunocompromised are more susceptible

## TYPES OF PNEUMONIA

Ventilator associated pneumonia (VAP):	Occurs 48 to 72 hr after endotracheal intubation
Community acquired pneumonia (CAP):	The most common type and often occurs as a complication of influenza
Health care acquired pneumonia (HAP):	Has a higher mortality rate and is more likely to be resistant to antibiotics. It usually takes more than 48 hr from the time the client is exposed to acquire HAP.

### MANIFESTATIONS Fever Chills Diaphoresis Flushed face Shortness of breath or difficulty Tachypnea breathing Pleuritic chest pain (sharp) Sputum production (yellowtinged) Crackles Wheezes Dull chest percussion over areas of Coughing consolidation Decreased oxygen saturation levels Purulent, blood tinged or rust

colored sputum

LABORATORY TESTS	
CBC:	Elevated WBC
	(Might not be present in older adult clients)
ABGs:	Hypoxemia
	(PaO2 less than 80 mm Hg)
Blood culture:	To rule out organisms in the blood
Serum electrolytes:	To identify dehydration
Sputum culture and sensitivity:	Obtain specimens before starting antibiotic therapy
	Obtain specimen by suctioning if the client is unable to cough

# CONTRIBUTING FACTORS

Advanced age	No pneumococcal vaccination within the last 5 years
No influenza vaccine within the last year	Chronic lung disease
Immunocompromised	Mechanical ventilation
Postoperative	Sedation
Opioid use	Prolonged immobility
Tobacco use	Enteral tube feeding

# EXPECTED FINDINGS Anxiety Fatigue

Weakness	Chest discomfort due to coughing

Confusion from hypoxia is a common manifestation of pneumonia in older adult clients

# DIAGNOSTIC PROCEDURES Chest x-ray: Will show consolidation (solidification, density) of lung tissue Might not indicate pneumonia for a few days after manifestations develop Pulse oximetr Clients who have pneumonia usually have oximetry levels less than the expected reference range of 95-100% y: Y

# NURSING CARE

Position the client to maximize ventilation (high-Fowler's) unless contraindicated

Encourage coughing or suction to remove secretions

Administer breathing treatments & medications

Adminiter oxygen therapy



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## NURSING CARE (cont)

Monitor for skin breakdown around the ears, nose, and mouth from the oxygen device

Encourage deep breathing with an incentive spirometer to prevent alveolar collapse

Determine the client's physical limitations and structure activity to include periods of rest

Encourage fluid intake of 2.5 to 3 L/day to promote hydration and thinning of secretions, unless contraindicated due to another condition

Provide rest periods for clients who have dyspnea

Reassure the client who is experiencing respiratory distress

# MEDICATIONS

### Antibiotics

Bronchodilators

Anti-inflammatories

# ANTIBIOTICS

Antibiotics are given to destroy infectious pathogens.

Commonly used antibiotics include fluoroquinolone, penicillins, and cephalosporins.

Antibiotics are often initially given via IV and then switched to an oral form as the condition improves.

Obtain any culture specimens prior to giving the first dose of an antibiotic. Once the specimen is obtained, the antibiotics can be given while waiting for the results of the culture.

Nursing Actions:	Observe clients taking cephalosporins for frequent stools
	Monitor kidney function, especially older adults who are taking penicillins and cephalosporins
Client Education :	Encourage clients to take penicillins and cephalosporins with food
	Some penicillins should be taken 1 hr before meals or 2 hr after

### BRONCHODILATORS

Bronchodilators are given to reduce bronchospasm and reduce irritation.

Short-acting beta2 agonists, such as albuterol, provide rapid relief.

Cholinergic antagonists (anticholinergic medications), such as

ipratropium, block the parasympathetic nervous system, allowing for increased bronchodilator and decreased pulmonary secretions.



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# **BRONCHODILATORS** (cont)

Nursing Actions Increase fluid intake if not contraindicated (Albuterol):

	Can cause hypokalemia, insomnia, headache, or nausea
	Monitor for tremors, tachycardia, hypertension, nervousness, palpitations, and dry mouth
Nursing Actions (Ipratropium):	Observe for dry mouth and difficulty with urination
	Monitor heart rate
	Adverse effects can include headache, blurred vision, and palpitations, which can indicate toxicity
Client Education:	Reinforce teaching on how to use a metered-dose inhaler (MDI)
	Encourage clients to suck on hard candies to moisten dry mouth while taking ipratropium
	Encourage increased fluid intake unless

# ANTI-INFLAMMATORIES

Anti-inflammatories decrease airway inflammation.

contraindicated

Glucocorticosteroids, such as fluticasone (MDI) and prednisone (oral), are prescribed to reduce inflammation.	Monitor for immunosuppression, fluid retention, hyperglycemia, hypertension, hypokalemia, and poor wound healing.		
Nursing Actions:	Monitor for decreased immunity function and infection		
	Monitor for hyperglycemia		
	Monitor for hypertension		
	Advise the pt to report black, tarry stools		
	Observe for fluid retention and weight gain		
	Monitor for electrolyte imbalance		

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ANTI-INFLAMMATORIES (cont)		COMPLICATIONS OF PNEUMONIA (cont)	
	Monitor the client's throat and mouth for aphthous lesions	<u>.</u>	A chest x-ray shows an area of density
o	(canker sores)	Bacteremia	This occurs if pathogens enter the bloodstream from
Client Educatio	Drink plenty of fluids to promote hydration	(sepsis):	infection in the lungs
n:		Acute respiratory	Hypoxemia persists despite oxygen therapy
	Take glucocorticosteroids with food	distress	
	Avoid discontinuing glucocorticosteroids without consulting provider	syndrome:	Dyspnea worsens as bilateral pulmonary edema
	Use MDI		develops that is non cardiac related
	Rinse mouth and gargle after inhaled glucocorticoids to reduce the risk of dysohonia and candidiasis		A chest x-ray shows an area of density with a ground- glass appearance
INTERPR	OFESSIONAL CARE		Blood gas findings demonstrate high arterial blood levels of carbon dioxide (hypercarbia) and pulse
	ith respiratory services for inhalers, breathing treatments, and for airway management.		oximetry shows decreased saturation
	ith nutritional services for weight loss or gain related to ns or diagnosis.		nonitoring a group of clients for increased risk for
	ith rehabilitation care if the client has prolonged weakness and sistance with increasing level of activity.	developing pneumonia. Which of the following clients should the nurse expect to be at risk? (select all that apply)	
		A. client who h	as dysphagia
CLIENT E		B. client who has AIDS	
Continue r	medications for treatment of pneumonia	C. client who received vaccines for pneumoccocus and influenza 6	
Rest as ne		months ago	
	hand hygiene to prevent infection	<ul><li>D. client who is ambulatory after receiving a local anesthesia</li><li>E. client who has a closed head injury</li></ul>	
	wded areas to reduce the risk of infection	F. client who has myasthenia graves	
	nmunizations for influenza and pneumonia	<ol> <li>A nurse is caring for a client who has pneumonia. Data collectio</li> </ol>	
Stop smok		findings inclu	de temperature 37.8 C (100 F), respirations 30/min, re 130/76, heart rate 100/min, and SaO2 91% on room
		air. Which of	the following actions is the nurse's priority?
Atelect asis:	Airway inflammation and edema lead to alveolar collapse and increase the risk of hypoxemia	A. administer a	antibiotics
	The pt reports shortness of breath and exhibits findings of	B. administer o	oxygen therapy
	hypoxemia	C. perform a sp	putum culture
	The pt has diminished or absent breath sounds over the	D. administer a	antipyretic medication to promote client comfort

By harpieee

affected area

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