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Acronyms:

VF	Ventricular Fibrillation
VT	
	Ventricular Tachycardia
AED	Automated external defibrillator
CPR	Continue cardiopulmonary resuscitation
EEG	Electroencephalography
SLE	Systemic lupus erythematosus
SNS	Sympathetic nervous system
SJS	Steven Johnson Syndrome
PSVT	Paroxysmal Supraventricular Tachycardia
CHF	Congestive Heart Failure
IHD	Ischemic Heart Disease
B.P	Blood Pressure
SpO2	Oxygen saturation
RR	Respiratory rate
PR	Pulse Rate
HR	Heart rate
RBS	Random blood sugar
ETT	Endotracheal Tube
MI	Myocardial infraction
CV	Cardiovascular
CNS	Central nervous system
GI	Gastrointestinal
GU	Genitourinary system
D5W	Dextrose 5 % in Water
SOB	Short of breath
I & O	Intake & Output
GTN	Glyceryl Trinitrate
COPD	Chronic obstructive pulmonary disease
RL	Ringer Lactate
NS	Normal Saline
IV	Intravenous
OPA	Oropharyngeal Airway



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ACS	Acute coronary system
ACLS	Advanced Cardiac Life Support
BID	Twice a day
PRN	When necessary
PO	Taken by mouth
SC	Subcutaneously
IM	Intramuscular
HTN	Hypertension
PSVT	Paroxysmal supraventricular tachycardia
ATP	Adenosine triphosphate
WPW	Wolff Parkinson white
G6PD	Glucose 6 phosphate dehydrogenase deficiency
pН	Potential hydrogen
Na	Sodium
NGT	Nasogastric tube
CO2	Carbon Dioxide



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Crash Cart Study Guide

1. Introduction

A crash cart is the trolley for storing lifesaving equipment and medications in a hospital emergency rooms, wards /clinics etc. It is an integral component of emergency patient care. Al Masarra Hospital as a pure Psychiatric Care and Training facility is currently applying for WHO Patient Safety Friendly Hospital Initiative. This training material is in line with our compliance with the following standards as follows: C.5.1.1. Measuring Compliance with Policies and Procedures for Lifesaving Medications and C.5.2.1.Measuring Compliance with safe medication Policies and Procedure.

2. Scope

This study guide is applicable to all the Doctors, Staff Nurses, Pharmacy professionals and other linked health care workers dealing with clinical area procedures.

3. Purpose

- 3.1 To ensure all health care workers familiar with all emergencies medication and equipment used in different types of emergencies
- 3.2 To improve all healthcare workers' knowledge, skill and confidence while dealing with crash cart items.

4. Definitions

4.1 Crash cart or Code cart or Crash Trolley: Is a set of trays / drawers/shelves on wheels used in health institutions for transportation and dispensing of emergency medication / equipment at site of medical / surgical emergency for life support protocols (ACLS / ALS) to potentially save someone's life. The cart carries instruments as a support for cardiopulmonary resuscitation and other medical supplies while also functioning as a support for the patient.



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CRASH CART STUDY GUIDE





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TOP SHELF

NAME OF ITEMS	USES AND	HOW TO USE	COMPLICATION
	INDICATION		
Defibrillator Types of Defibrillators: 1. Manual external defibrillator 2. Automated external defibrillator (AED)	1. Pulseless ventricular tachycardia (VT) 2. Ventricular fibrillation (VF) 3. Cardiac arrest due to or resulting in VF	 Gather and prepare the appropriate equipment. Perform hand hygiene. Confirm the patient's identity using at least two patient identifiers. Provide privacy If time allows, make sure that the patient and his family understand the procedure 	 The most common complications are harmless arrhythmias, such as atrial, ventricular, and junctional premature beats.
AMERICA 20 INC. TO STATE OF THE STATE OF TH	Defibrillator require: - ECG leads - ECG electrodes - KY gel - ECG recording paper - Defibrillator paddles use to know rhythm and or delivering shock -Self-adhesive defibrillation pads	 Put on gloves to comply with standard precautions. Assess the patient to ensure that he's unresponsive and not breathing or only gasping. If the patient is unresponsive and not breathing or only gasping, call for help and then take up to 10 seconds to attempt to feel for a pulse (carotid or femoral). If you're alone and don't feel a pulse or you're unsure whether you feel a pulse, begin chest compressions. After 30 compressions, open the patient's airway using a head-tilt chin-lift maneuver and give two breaths. If there is evidence of trauma that suggests spinal injury, use a jaw thrust maneuver to open the airway. Continue cardiopulmonary resuscitation (CPR) until the defibrillator and emergency equipment arrive. Make sure that the patient is in a dry environment and that his chest is dry because if personnel or the patient comes in contact with water, personnel may receive a shock and the patient may receive skin burns. Remove metallic objects that the patient may be wearing because metal conducts electricity and could cause burns during defibrillation. If patient with transdermal medication patches, remove 	 Ventricular fibrillation (VF) resulting from high amounts of electrical energy, digitalis toxicity, severe heart disease, or improper synchronization of the shock with the R wave Thromboembolization is associated with cardioversion in 1-3% of patients, especially in patients with atrial fibrillation who have not been anticoagulated prior to cardioversion. Myocardial necrosis can result from high-energy



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patches from the patient's chest (and back if using anteriorposterior placement) because the medication may interfere with current conduction and produce burns.

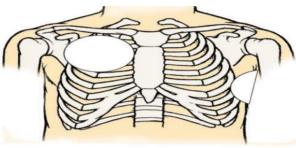
• Expose the patient's chest and apply the self-adhesive defibrillation pads. For anterolateral placement, position one pad to the right of the upper sternum, just below the right clavicle, and the other over the fifth or sixth intercostal space at the left anterior axillary line. For anteroposterior placement, position the anterior pad directly over the heart at the precordium to the left of the lower sternal border. Place the posterior pad under the patient's body beneath the heart and

shocks. ST segment elevation can be seen immediately and usually lasts for 1-2 minutes.

5. Myocardial dysfunction is due to an absence of cardiac output and coronary blood flow during arrest, resulting in ischemia.

Myocardialdysfunction due to stunning may reverse within first 24-48 hours. Left ventricle function evaluation should be delayed for 48 hours after arrest.

- 6. Pulmonary edema is a rare complication of cardioversion. It is probably due to transient left atrial standstill and left ventricular systolic dysfunction.
- 7. Painful skin burns can occur after cardioversion or defibrillation; they are moderate to severe in 20-25% of patients



Anterolateral placement

immediately below the scapula (but not on the vertebral column). Defibrillation occurs when an electrical current passes through the cardiac muscle to restore a single source of impulse production. Appropriate pad positioning maximizes the flow of electrical current through the heart

• Turn on the defibrillator and, if performing external defibrillation using a biphasic defibrillator, use clinically appropriate energy levels (usually 120 to 200 joules)



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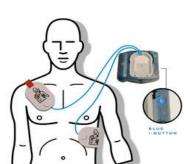
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following the manufacturer's recommended dose.

If you're using a monophasic defibrillator, set the energy level

for 360 joules for an adult patient.

- Connect the monitoring leads of the defibrillator to the patient and assess his cardiac rhythm.
- Turn on the ECG recorder to provide a visual recording of the patient's ECG as well as his response to interventions.
- Charge the self-adhesive defibrillation pads by pressing the appropriate button on the defibrillator.
- Reassess the patient's cardiac rhythm.
- Disconnect the oxygen source during actual defibrillation to decrease the risk of combustion caused by arcing of the electrical current in the presence of oxygen.
- If the patient remains in VF or pulseless ventricular tachycardia, state "all clear" or similar wording three times and visually verify that all personnel are clear of the patient and of the bed before discharging the electrical current. Electrical current can be conducted from the patient to anyone in contact with the patient.
- Discharge the current by pressing the appropriate button on the defibrillator.

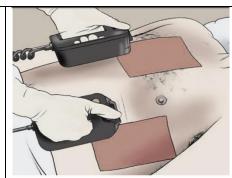


**Defibrillation can cause accidental electric shock to those providing care. Using dry self-adhesive defibrillation pads or applying an insufficient amount of conductive medium can lead to skin burns.



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Completing the procedure

• Resume CPR immediately, beginning with chest compressions and administering five cycles. Defibrillation is more likely to be effective if followed immediately with a cycle of chest

compressions and with minimal interruption in chest compressions.

- Reassess the patient's cardiac rhythm.
- If the patient remains in VF or pulseless ventricular tachycardia, prepare to defibrillate a second time. Reset the energy level on the defibrillator to 360 joules (or the biphasic energy equivalent) and continue CPR while the defibrillator is charging. Announce that you're preparing to defibrillate and follow the procedure described above.
- Resume CPR immediately, starting with chest compressions, and administer five cycles.
- Reassess the patient. If the patient remains in VF or pulseless ventricular tachycardia and defibrillation is again necessary, reset the energy level to 360 joules for the monophasic defibrillator (or the biphasic energy equivalent). Then follow the same procedure as before.
- Resume CPR immediately, starting with chest compressions, and administer 5 cycles.
- If defibrillation restores a normal rhythm, check the patient's central and peripheral pulses and obtain a blood pressure reading and heart rate. Assess the patient's respiratory status, level of consciousness, cardiac rhythm, breath sounds, skin color, and urine output. Obtain baseline ABG



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levels and a 12-lead ECG. Provide supplemental oxygen and ventilation, insert an IV catheter (if not already in place), and administer medications, as needed and ordered following safe medicationpractices.

Check the patient's chest for electrical burns and treat them, as ordered. Also prepare the defibrillator for immediate reuse.

- Discard all supplies.
- Remove and discard your gloves.
- Perform hand hygiene.
- Provide support and information to the patient's family, as needed. After resuscitation, inform the patient of what happened if appropriate.
- Clean and disinfect your stethoscope, if used, with a disinfectant pad.
- Perform hand hygiene.
- Document the procedure

Special Considerations:

- Additional defibrillation should be done 30 seconds to 1 minute after administering medications.
- Check defibrillator operation regularly (usually once per shift), as determined by your facility.
- If defibrillation gel pads aren't available, defibrillator paddles require that a conductive gel be placed on the paddles before use. Place the gel on one paddle and rub the two paddles together to spread the gel evenly between them. Ensure that the surface of the paddle is completely covered.
- Defibrillation can be affected by several factors, including paddle size and placement, condition of the patient's myocardium, duration of the arrhythmia, chest resistance, and the number of countershocks.

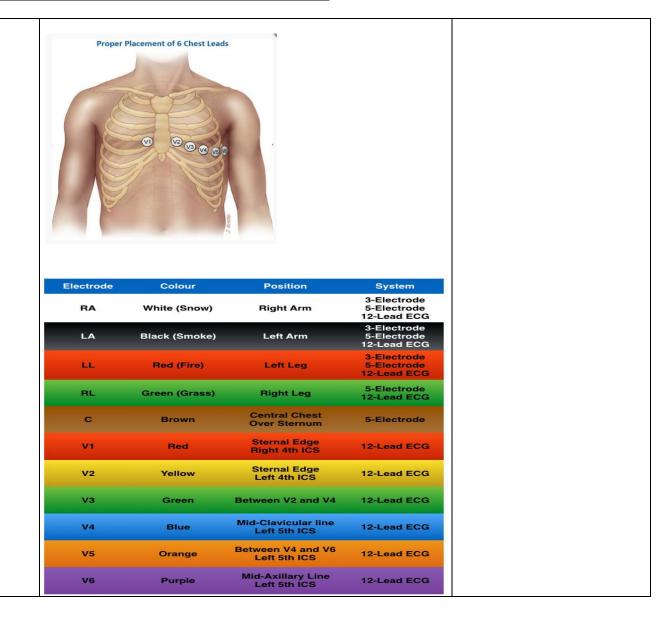


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		 Don't place the pad or paddle over a female patient's breast. Instead, place the apex of the pad or paddle at the fifth to sixth intercostal space, with the middle of the pad or paddle at the midaxillary line. Family members of the patient undergoing resuscitation should be given the option to remain at the bedside during resuscitation because it's beneficial in meeting the psychosocial needs of the patient and his family in a time of crisis. If the patient has a hairy chest, remove the hair from necessary locations for pad or paddle placement. Chest hair can increase transthoracic impedance. 	
ECG Leads	Any patient requiring detail ECG analysis: - suspected ACS - cardiac dysrhythmias - conduction disturbance - electrolyte imbalance - drug toxicity	 Ensure patient privacy Place patient in a supine position if the patient will tolerate. Place the patient's arms down by their side to relax their shoulders Patient's legs should be uncrossed. Dry the skin if it is diaphoretic or moist. If require, remove excessive hair to ensure electrodes have full contact with the patient's skin Electrodes should not be placed over bones and over areas where there is a lot of muscle movement. 	No complication



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Ambu Bag- Bag Valve Mask



- 1. Acute respiratory distress, hypoventilation (RR less than 10Lmin) or cardio-respiratory arrest in adults requiring positive pressure ventilation.

 2. Failed intubation
- 2. Failed intubation (insertion of an artificial ventilation tube into the trachea)
- 3. Patients undergoing anesthesia for elective surgery
- 4.Apnea (slowed or stopped breathing)

- 1. Using one hand, hold the mask, with your thumb and index finger wrapped around the connector stem of the mask. Most operators use their non-dominant hand to grasp the mask, but either hand can be used as long as a good mask seal can be maintained.
- 2. Making sure not to place your hand or the mask on the patient's eyes, first place the nasal portion of the mask over the nose, and then lower the body over the patient's mouth. The bridge of the nose, the two malar eminences, and the mandibular alveolar ridge must be covered by the mask in order to achieve a proper seal.
- 3. Now extend your middle, ring, and little fingers underneath the patient's mandible, and pull it upward into the mask. This maneuver is similar to that of the head tilt—chin lift technique and further opens the airway.
- 4. While maintaining this upward traction on the mandible, press the mask downward onto the face to attain a tight mask seal. If your hand is large enough, place your little finger behind the mandibular ramus to do a jaw-thrust maneuver to further open the airway.

 Be sure to pull up only on the bony parts of the mandible, because pressure to the soft tissues of the neck or under the chin may obstruct the airway.
- 5. Once a proper seal is achieved, use your other hand to begin ventilation.

During ventilation, continually monitor:

- 1. Gastric inflation-that can cause regurgitation of stomach contents and airway soiling/ Vomiting.
- 2. Pulmonary barotrauma
- 3. Undesirable cardiovascular effects such as hypotension, secondary to caval compression.
- 4. Aspiration (entry of foreign objects into the airway)
- 5. Hypoventilation
- 6. Worsen the airway obstruction
- 7. Accelerate hypoxia (low oxygen level in the blood)



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		Expiratory airflow through the valves, signs of cyanosis, adequacy of ventilation and airway pressure Shutterstock.com 1493235419	
IV Stand	Administer Medicine Portability Organization	IV, or intravenous, poles are devices used to hold bags of fluid or medicine that is being given to a patient at a steady flow. This is done by hanging a bag of fluid on a hook near the top of the pole. The fluid then runs through a tube and into a patient's veins	No complication
Suction Apparatus	During respiratory failure in which the airway is blocked is it essential that the airway be cleared as quickly as possible. A portable suction machine located on	 Wash your hands Plug the suction machine into a grounded outlet. Check that the tubing from the machine to the collection jar is on and snug. The portable suction pressure should not be set higher than 15 mm/Hg. Check pressure by turning the machine on and covering the open end of the suction line with one hand. 	Because oxygen is removed along with secretions, the patient may experience hypoxemia and dyspnea. Anxiety may alter respiratory patterns. Cardiac arrhythmias can result from hypoxia and



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the outside of the crash cart can quickly remove obstructions allowing staff to either restore regular breathing or prepare for intubation.

- 5. Look at the pressure dial. It should rise but not go any higher than the 15 marker on the dial.
- 6. If the pressure does not go up, re-check all tubing connections or adjust to the correct pressure.
- 7. Pick up clean suction catheter.
- 8. Turn on the suction machine.
- 9. "Bag" the patient. The patient must receive extra breaths during suctioning. This is done by using the Ambu Bag. Attach the bag to the person's airway (trach tube) and squeeze the bag to give extra breaths. Each person will be different in respect to how many times he/she needs to be "bagged." Follow the directions you were given from your doctor or therapist.

stimulation of the vagus nerve in the tracheobronchial tree. Tracheal or bronchial trauma can result from traumatic or prolonged suctioning. Patients with compromised cardiovascular or pulmonary status are at risk of hypoxemia, arrhythmias, hypertension, or hypotension. Patients with a history of nasopharyngeal bleeding, those who are taking anticoagulants, and those who have a blood dyscrasia are at increased risk of bleeding as a result of suctioning. Use caution when suctioning patients who have increased intracranial pressure because suction may further increase pressure. If the patient experiences laryngospasm or bronchospasm (rare complications) during suctioning, disconnect the suction catheter from the connecting tubing and allow the catheter to act as an airway. Discuss with the



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			patient's practitioner the use of bronchodilators or lidocaine to reduce the risk of this complication.
Stop Watch	Used to measure the time interval of an event.		No complication
Blood Pressure (B.P) Apparatus	To monitor patients' blood pressure manually.	 Locate patient's pulse Secure the cuff: Slide the cuff onto patient's arm, making sure that the stethoscope head is over the artery Inflate and deflate the cuff: Hold the pressure gauge in your hand Deflate the cuff slowly. Listen carefully until the sound disappears. Allow the cuff to completely deflate. Inflate the cuff by squeezing the bulb with your hand. 4. Record patient's blood pressure. 	



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Cardiac Board	Cardiopulmonary resuscitation (Used to provide a flat and hard surface beneath a person who requires chest compressions to pump blood through his or her circulatory system)	A flat, rigid device that is placed under a patient to instantly give the necessary support required for the application of cardiopulmonary resuscitation. This device is typically suitable for use when an acute situation has arisen, and the patient is lying in his/her bed. Place the patient on a firm surface. If on a bed, place the cardiac compression board under the patient.	No complication
Medical Gas- Oxygen	In cases of respiratory failure, oxygen may need to be administered, so a full and easily accessible oxygen cylinder and mask are essential pieces of equipment to have on your crash cart.	 Check the cylinder contents gauge on the cylinder valve to ensure that there is Sufficient gas contents in the cylinder Remove the tamper evident seal and cover fitted over the valve outlets Ensure the flow selector is set to zero before using the (black) hand wheel to open the cylinder valve Open the cylinder valve slowly (turn anti clockwise until it stops) and check for any leak. Ensure the outlet (fir tree connector) is free of obstruction. If dirt or other obstruction is seen; briefly turn the flow dial to maximum to clear it Ensure that the correct equipment is selected for connection to the cylinder Connect tubing to the fir tree connector and select appropriate flow rate 	Complications of Hyperbaric Oxygen Treatment • Lung damage • Fluid buildup or bursting (rupture) of the middle ear • Sinus damage • Changes in vision, causing nearsightedness or myopia • Oxygen poisoning, which can cause lung failure, fluid in the lungs, or seizure
ECG Electrodes	Any patient requiring	Ensure patient privacy	No complication



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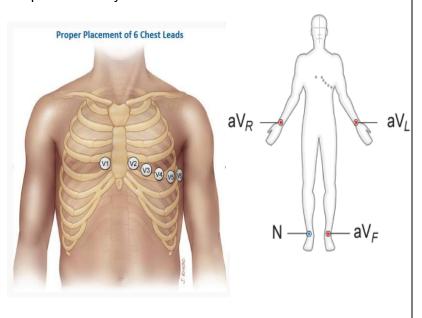
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detail ECG analysis:

- suspected ACS
- cardiac dysrhythmias
- conduction disturbance
- electrolyte imbalance
- drug toxicity

- 2. Place patient in a supine position if the patient will tolerate.
- 3. Place the patient's arms down by their side to relax their shoulders
- 4. Patient's legs should be uncrossed.
- 5. Dry the skin if it is diaphoretic or moist.
- 6. If require, remove excessive hair to ensure electrodes have full contact with the patient's skin
- 7. Electrodes should not be placed over bones and over areas where there is a lot of muscle movement.
- 8. 10 electrodes are used for a 12 lead ECG. The electrodes usually consist of a conducting gel, embedded in the middle of a self-adhesive pad into which cables clip. Sometimes the gel also forms the adhesive. They are labeled and placed on the patient's body as follows:





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		Electrode	Colour	Position	System	
		RA	White (Snow)	Right Arm	3-Electrode 5-Electrode 12-Lead ECG	
		LA	Black (Smoke)	Left Arm	3-Electrode 5-Electrode 12-Lead ECG	
		LL	Red (Fire)	Left Leg	3-Electrode 5-Electrode 12-Lead ECG	
		RL	Green (Grass)	Right Leg	5-Electrode 12-Lead ECG	
		С	Brown	Central Chest Over Sternum	5-Electrode	
		V1	Red	Sternal Edge Right 4th ICS	12-Lead ECG	
		V2	Yellow	Sternal Edge Left 4th ICS	12-Lead ECG	
		V3	Green	Between V2 and V4	12-Lead ECG	
		V4	Blue	Mid-Clavicular line Left 5th ICS	12-Lead ECG	
		V5	Orange	Between V4 and V6 Left 5th ICS	12-Lead ECG	
		V6	Purple	Mid-Axillary Line Left 5th ICS	12-Lead ECG	
B	To assess a patient's card	liac and respii	ratory			No complication
Stethoscope						



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First Drawer

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effects:	Keep crash trolley on standby in
Epinephrine	Cardiac Arrest:	Resp:	Cardiopulmonary	CV: Arrhythmias,	case of emergencies
	IV: 1 mg of 1:1,000 solution	Stimulates β2	Arrest,	palpitations,	
	every 3 to 5 min; if	adrenergic receptors	Acute Bronchial	hypertension	Connect the patient to the
Brand:	necessary	resulting in	Asthma,		cardiac monitor; (Check vital
Adrenaline	(Double the dose if via ETT)	bronchodilation	Croup	CNS: Nervousness,	signs: SPO2, RR, HR, BP
				restlessness, tremor	before, during and after
Available:	Acute Anaphylaxis:	CV:	Anaphylactic		administration)
1:1,000	IM: 0.5 mg of 1:1,000	Stimulates β1	Shock (angio	Life Threatening:	
(1 mg = 1 ml)	solution repeat every 5 min	adrenergic receptors	edema)	Systematic reaction MI,	Assess patient level of
	if necessary	causing increased		VF, Pulmonary edema	consciousness before, during
1:10,000		heart rate and blood	Symptomatic	and CV collapse	and after administration
(10ml; 0.1mg = 1ml)	IV: 0.5 – 1 ml of 1:10,000 IV	pressure	Bradycardia		
	slowly, repeat according to	01 101 41			Watch for cardiac arrhythmias,
	response	Classification:	D !! ((rapid elevation of blood
	Base sections	Sympathomimetic	Relief of		pressure notify doctors if it
	Preparation:	Vasopressor	bronchospasm		occurs or patient's condition
1 3 3	Cardiac Arrest	Bronchodilator	Occurring during		deteriorates.
1.	Fill 2 ml syringe with	Alpha and β agonist	anaesthesia		FOC to be taken and noticest
2 P 3	1:1,000 (1mg=1 ml) IV push		Contraindication:		ECG to be taken once patient
Macarthys Laboratori Adrenaline (Epinephrina	(Do not dilute)				gets perfusing rhythm
nalii.	Followed by N/S 20ml IV flush		History of		Continue nations manifering and
ratorie ne	ilusti		hypersensitivity or intolerance to		Continue patient monitoring and notify doctor if patient's
S Ltd	IV:0.5-1 ml of 1:10,000 (Do		Adrenaline		condition deteriorates
	not dilute)		Auterialitie		Condition deteriorates
	To make 1:10,000 solution		Cardiac		
	mix Adrenaline 1 mg		Arrhythmias		
	(1:1,000) with 9 ml of 1		Airiyuiiiias		
	[(1.1,000) With 3 iii 0i 1				



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mg/10ml=0.1mg/ml		

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effects:	Keep crash trolley on standby
Amiodarone	Cardiac Arrest:	Acts directly on all	Prophylaxis and	CV:	in case of emergencies
	IV: 300 mg bolus, may	cardiac tissues	treatment of life	Hypotension	
Brand:	repeat with 150 mg bolus		threatening	Tachycardia	Connect the patient to the
Cordarone		Antiarrhythmic	Ventricular		cardiac monitor; (Check vital
Amino-aqueous	Post-arrest maintenance:	Antiadrenergic	Arrhythmias &	CNS:	signs: SPO2, RR, HR, BP
Pacerone	15mg/min/for10min (150mg)		Supraventricular	Muscle weakness,	before, during and after
	1mg/min for 6 hrs (360mg)	Decreases	Arrhythmias	fatigue, dizziness	administration)
Available:	0.5mg/min for 18hrs(540	peripheral	particularly AF		
150 mg = 3 ml	mg)	resistance &		GI:	Watch for cardiac arrhythmias
(50mg=1ml)	Max dose 2.2g/day	increases coronary	Contraindication:	Anorexia	and notify doctor accordingly
		blood flow	CHF	Nausea and Vomiting	
	Tachyarrhythmia:		Cardiomyopathy		During IV infusion monitor BP
	IV: 150 mg over 10 min. may	Blocks effects of	Severe		and slow the infusion if
	repeat 150 mg every 10 min.	sympathetic	conduction	Life Threatening:	significant hypotension noticed
A		stimulation	disturbances	Cardiogenic Shock	(Rapid injection may precipitate
(540) (643)	Preparation:		Sinus Bradycardia		hypotension)
(#)	Cardiac Arrest:	Classification:	S-A/AV block		
	IV bolus: (300 mg=6ml) mix	Cardiovascular			Continue patient monitoring
	with 20 ml Dextrose (D5W)	Agent	Severe respiratory		and notify doctor if patient's
A Committee of the Comm	then push IV slowly	Antiarrhythmic	failure		condition deteriorates
Con and Con an	,				
	IV infusion:		Liver disease		
	450 mg Amiodarone dilute				
	with 250 ml D5W		Electrolyte		
	0.14 ml/min (18 hours)		imbalance		
	- /				
			Lung disease		



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Drug Name	Dosage and Route	Action/	Indication/	Adverse/Side Effects &	Nursing Responsibilities
Canania	Adult Door	Classification	Contraindication	Life Threatening Adverse Effect:	Kana ayaab taallay ayaataa dhy
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby
Adenosine	4 St. along a Congress Congress	Slows down	Paroxysmal	Door Chartman of	in case of emergencies
Drand	1 st dose: 6mg=2ml	cardiac conduction	Supraventricular	Resp: Shortness of	Commont the metions to the
Brand:	If no response in 1-2	through the AV and	Tachycardia	Breath (SOB) and	Connect the patient to the
Adenocard	minutes,	SA nodes, which	(PSVT)	Chest tightness	cardiac monitor; (Check vital
	2 nd dose: another	depresses left		0.7	signs: SPO2, RR, HR, BP
Available:	12mg=4ml,	ventricular		CV:	before, during and after
6mg=2ml	if needed 3 rd dose: another	function.		Transient flushing,	administration)
	12mg (reduce dose in ½ in		Contraindication:	arrhythmias,	
	case of heart transplant	The effect is	Patient with 2 nd	hypotension,	Obtain pre-procedure ECG
	patients)	transient due to	and 3 rd degree AV	palpitation and chest	continue ECG monitoring, look
		short half life.	Block	pain	for arrhythmias, notify doctor if
	Preparation:				any occurs.
	Fill syringe with the required		Atrial Flutter/	CNS:	
	amount of Adenosine; 6mg		Fibrillation (AF)	Dizziness	Insert big cannula over the
1,500,50	or 12mg (Do not dilute)				antecubital (elbow) area.
	A 20 ml syringe filled with	Classification:	Sick sinus	Life threatening:	
ADENOSINE #	N/S=20ml	Antiarrhythmic	syndrome unless	Resp:	Give the Adenosine as
INJECTION USP		Drug	pacemaker is	SOB (Bronchospasm)	mentioned in the preparation
FOR RAPID BOLUS IN USE S	3 way connector		fitted		then elevate the injected hand
6 mg/2 mL				CV:	above the level of the heart.
(3 mg/mL) at Rx GMLY	Connect all above to the		Asthma	Severe bradycardia,	
	Cannula of the patient			Asystole	Obtain post procedure ECG to
			Caution:		confirm and document efficacy
	Push Adenosine fast through		Heart transplant		of Adenosine.
	one side of the 3 way		patient are more		
	connector followed by N/S		sensitive to the		
	20ml fast.		drug		Continue patient monitoring
					and notify doctor if patient's
	May repeat the same				condition deteriorates.
	depending on patient				
	response.				



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Flumazenil	Benzodiazepine	Antagonizes and	Complete or partial	CV: arrhythmia,	case of emergencies.
	overdose:	inhibits the action	reversal of sedative	chest pain,	
Brand:	IV: Initial dose; 0.2mg over	of	effects of	hypertension	Connect the patient to the
Anexate	30 secs. may repeat with	Benzodiazepine	Benzodiazepine		cardiac monitor; (Check vital
Romazicon	0.3mg IV q 30sec up to a		·	CNS: seizure	signs: SPO2, RR, HR, BP
	maximum cumulative dose		Management of	agitation, dizziness,	before, during and after
	of 3mg/hr		Benzodiazepine	vertigo	administration)
Available:		Classification:	overdose		,
0.5mg = 5ml	Infusion:	Antidote		Watch for re-	After administration observe
•	100-400 mcg/hr	Benzodiazepine	Contraindication:	sedation	level of consciousness and
(3b)		receptor	Status Epilepticus,		respiratory status
	Preparation:	antagonist.	Raised ICP overdose		
	Fill syringe with 0.5mg=5ml		with antidepressant		Monitor clinical response
P48	inject directly through a vein		Allergy to		carefully to determine effect of
49	over 15 secs. no need to		Benzodiazepines		the drug such as breathing
	dilute		·		difficulty, severe headache,
					arrhythmias and pain at IV site.
Anexate®	For overdose patient inject		Caution:		
Flumaz enil 0.5 mg/5 ml	over 30 secs.		In patients with history		Use large vein for running IV to
(in			of seizures, drug or		reduce pain
EXP			alcohol dependency		
092021			and head injury		Continue patient monitoring and
					notify doctor if patient's
					condition deteriorates.
ı					determine determine determine de la constantina della constantina



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Naloxone	Opioid overdose:		Respiratory Depression		case of emergencies
Hydrochloride	Bolus: 0.4mg-2mg IV	Unknown thought to	from narcotic overdose	CV:	
	push max 10mg	displace opioid		Hypertension,	Connect the patient to the
Brand:	If not responding can be	analgesics from	Contraindication:	hypotension,	cardiac monitor;
	repeated up to 2mg.	their receptors	Contraindicated in	Ventricular	(Check vital signs: SPO2, RR,
Narcan		(competitive	patients hypersensitive	tachycardia,	HR, BP before, during and after
	Post-operative	antagonism); The	to Naloxone	Pulmonary edema,	administration)
Available:	Respiratory Depression	drug has no		tremulousness	
0.4mg=1ml	200-400mcg titrated to	pharmacologic	Caution:		Monitor respiratory rate rhythm
	desired effect	activity on its own	In patients with cardiac		and depth and level of
			irritability or opioid	GI: Nausea and	consciousness before and after
	Preparation:	Classification:	addiction	Vomiting	administration.
	Adult for opioid overdose	Antidotes,			
	withdraw 0.4mg=1ml	detoxifying agents	Note: Drug is effective	Caution:	Duration of action of the opioid
	direct IV push bolus, no	and drugs used in	only in reversing	Re-narcotization if	may exceed that of naloxone
	need to dilute.	substance	respiratory depression	used for reversing	and patient may relapse to
		dependence.	caused by opioid, not	long acting opioid.	respiratory depression
	For continue infusion:		against other drug		
	Opioid overdose take 10		induced respiratory	May precipitate	
	mg dilute with 50ml NS		depression, including	acute withdrawal in	Continue patient monitoring and
S4 Nalox one H0 0,4 m g/1 ml	or 5% Dextrose.		those caused by	opioid addicts.	notify doctor if patient's
NALOXO VE HO			Benzodiazepines		condition deteriorates.
M • IV • SC 0,4 fresenius Kabi	Reversal for Respiratory				
Manufacturing SI (2490/06-17 11)	depression: 4mcg/ml				
6-900/00-17	dilute with 100ml 5%				
	Dextrose or NS to make				
	total 100ml				
					1



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in case
Lidocaine	IV Bolus: 50-100mg,	Decreases cardiac	Ventricular arrhythmias	Confusion and	of emergencies.
Prilocaine	(1-1.5 mg/kg may repeat	excitability by		drowsiness	
	q 5-10 min. max 3	delaying cardiac	Contraindication:	Dizziness	Connect the patient to the cardiac
Brand:	mg/kg) followed	contraction in the	Hypersensitivity to	Paraesthesia	monitor; (Check vital signs: SPO2, RR,
Xylocaine,	immediately by	atrium and ventricle	amide-type local		HR, BP before, during and after
Ztlido,			anaesthetics.	Life Threatening:	administration)
Lignocaine	IV infusion:	Classification:		CV: Cardiac	
Available:	4 mg/min for 30 mins,	Antiarrhythmic and	Patient with Stoke-	Vascular collapse	Continue ECG monitoring, look for
100mg=5ml	2 mg/min for 2 hrs	local anaesthetic	Adams syndrome &	from ↓BP +	arrhythmias, Stop infusion notify doctor
(2%)	1 mg/min up to 24 hrs	agent	Wolff-Parkinson's- White Syndrome,	Bradycardia	if any occurs.
◆NESS AND PULL TO OPEN ▶	Preparation:		Severe myocardial	CNS: SOB and	Monitor serum Lidocaine and
5 mL NOC GREEN 1225 OF THE ENDY THE END	IV bolus: during emergency fill syringe		depression	difficulty in swallowing,	electrolyte level.
2% Lidocaine HCI Injection, USP	with required amount (lighter patient use 50		Sinoatrial disorders, all cases of AV block, and	convulsion and respiratory	Monitor I&O
100 mg/5 mL (20 mg/mL)	mg) push thru IV directly, no need to dilute.		intraventricular block/myocardial	Depression and arrest.	Do not mix with Sodium Bicarbonate
Ansyr*			depression in the		In case of circulatory depression have
Single-dose syringe	IV infusion for continuous infusion see		absence of pacemaker.	Special Precaution:	Dopamine available.
TOTAL	above infusion			Renal, cardiac or	Continue patient monitoring and notify
Preservative Free	dose/recommended chart.			hepatic failure	doctor if patient's condition deteriorates.
LOT 89-392-EV EXP 1MAY2020	Chart.			patients.	
HOSPITA **PRESS AND PULL TO OPEN >**					



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Nitroglycerin	Oral: GTN: 0.5mg S/L or	Decreases	Prophylaxis, Angina		case of emergencies
	1 Spray S/L	myocardial oxygen	Pectoris, CHF	CV:	
Brand:	Repeated as required.	consumption	associated with MI	Orthostatic	Connect the patient to the
Tridil			cardiac load reducing	hypotension,	cardiac monitor; (Check vital
Nitrostat	IV Infusion:	Decrease Ventricular	agent	flashing,	signs: SPO2, RR, HR, BP
Nitrolingual Spray	Start with 1-2 mg/hr,	preload and after	Hypertensive crisis	Fainting	before, during and after
	increase slowly	load			administration)
Available:	according to response,			CNS:	
Spray: 0.4 mg/dose	1mg every 3-5 mins.	Increase coronary	Contraindication:	Throbbing	Monitor BP and Apical pulse
Vial: 50mg=50ml	Max. 12mg/hr	blood flow by dilating	Hypotensive	headache,	periodically after dose.
		coronary arteries	conditions,	dizziness,	
	Preparation:		hypovolemia	weakness.	Record factors of angina pain
	During emergency		Hypertrophic		
	situation withdraw	Classification:	cardiomyopathy	GI: Nausea and	Have client sit or lie down if
	10ml=10mg start	Cardio vascular	Aortic/mitral stenosis	Vomiting	taking drug for the first time.
	according to doctor's	agent,	Concomitant use of		
	order.	Nitrate,	Sildenafil (Viagra)	Life Threatening:	
		Vasodilator		Circulatory collapse	Continue patient monitoring and
	For infusion dose:			Anaphylactic	notify doctor if patient's
	Draw all 50ml solution			reaction	condition deteriorates.
	put in 50ml syringe				
indingual - Spray	pump and adjust the				
To discontinuo di noncolina	dose according to				
* A mil solution * The solution of the solutio	patient's BP and doctor's				
Till ■ IIII	instructions				



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby
Dextrose 50%	Depend in individual	Provides calorie	hypoglycaemia	Fluid and	in case of emergencies
Brand:	requirements 20-50 ml	Therapeutic effects:		Electrolytes:	
Glucose,	of 50% solution	Provision of calories		Fluid overload,	Connect the patient to the
Glutose,	infused slowly	prevention and	Contraindication:	hypokalemia,	cardiac monitor; (Check vital
Instaglucose	(3ml/min)	treatment of	Hyperglycemia	hypomagnesimea,	signs: SPO2, RR, HR, BP
Available:		hypoglycaemias		hypophosphatemia	before, during and after
D50 in 20 ml or D50% in 25 ml					administration)
	Preparation:	Classification:		Metabolism:	
Caution: Concentrate electrolyte	Fill syringe with the	Caloric agent		Glycosuria,	Check RBS before during
,	prescribed amount	(Carbohydrates)		hyperglysemia	and after administration
	then push directly as				
High Alert: Double Check	IV (no need to dilute)				Watch for any side effects
					and notify doctor accordingly
					Continue patient monitoring
					and notify doctor if patient's
Concentrate					condition deteriorates
TEL ASIA TI ONE TO THE PROPERTY OF THE PROPERT					
in high sign of the state of th					
Wy Datroy Sect 1V.					
20%					



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic: Atropine Sulphate Brand: Isopto Atropine Available: 0.5 mg=1 ml	Adult Dose: Bradycardia: 0.5 – 1 mg IV every 3-5 min, max 3 mg or 0.04 mg/kg Warning: Dose<0.5mg have been associated Paradoxical	Action: Blocks the action of Acetylcholine at Parasympathetic sites in smooth muscles, secretory glands and CNS.	Indication: Symptomatic Bradycardia Pre-op to decrease oral and respiratory secretions Antidote (IM or IV) for	Adverse Effects: CV: Tachycardia and Arrhythmias CNS: Drowsiness, Coma Eye: Blurred Vision	Keep crash trolley on standby in case of emergencies Connect the patient to the cardiac monitor; (Check vital signs: SPO2, RR, HR, BP before, during and after administration) Watch for cardiac arrhythmia
Atropine Sufate Injection 600 micrograms	Chemical Poisoning: Nerve gas and organophosphate symptoms 2mg every 5-6 min IV/IM until relief of symptoms Preparation: Fill syringe with the prescribed amount then push directly as IV (No need to dilute) followed by Normal Saline 20 ml flash (May give IM if No IV access	Classification: Anticholinergic	Organophosphate poisoning Contraindication: Patients with angle-closure glaucoma Patient with history of hypersensitivity or intolerance	GU: Dysuria or urinary retention Life Threatening: CV: Ventricular Fibrillation	(Tachycardia) and low BP notify doctor accordingly For elder post-op patient monitor intake and output as Atropine may cause urinary retention Continue patient monitoring and notify doctor if patient's condition deteriorates



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Magnesium Sulphate	Torsades de pointes:	Depresses cardiac	Torsades de pointes		case of emergencies
Brand:	IV: 1-2 gm over 1-2 mins.	muscle function and	Ventricular Tachycardia	Resp: Decrease	
Magnesium Sulfate		CNS by decreasing		Respiratory rate	Connect the patient to the
Available:	Severe Asthma:	the amount of	Anticonvulsant in		cardiac monitor;
Magnesium Sulfate	IV: 1.2-2gm over 20	acetylcholine	severe eclampsia or	CV:	(Check vital signs: SPO2, RR,
50%	mins.	liberated from motor	pre-eclampsia	Hypotension,	HR, BP before, during and after
1 ampoule=5ml		neurons.		bradycardia and	administration)
=0.5g/ml	Pre-		Treatment of	heart block,	
	eclampsia/Eclampsia	Classification:	Hypomagnesemia	circulatory collapse	Continue monitoring BP, PR,
Caution: Concentrate	IV bolus: 4gm over 5 to	Anticonvulsant			RR and withhold the drug if
electrolyte	15 mins. If seizure recurs	Electrolytes	Asthma if no response	CNS:	RR<16.
	then 2g/h over 5 to 15	(Magnesium)	with conventional	Drowsiness,	
High Alert: Double Check	mins.		therapy	paralyses and	Monitor neurological status
				sedation	before, during and after
	IV maintenance infusion:		Control disetion		administration check patellar
	1g/hr at least for 24 hrs.		Contraindication:	Considerant and all	reflex (knee jerk) should be
	I han a ma a sun a a a mai a		Myocardial damage,	Environmental:	tested after each parenteral
CAL Concentrate	Hypomagnesemia		Heart block,	Hypothermia	dose if response is absent, no additional dose should be
Concentrat	Adult 25 to 50 mg/kg		Hypermagnesimea		
	IV q4-6hr				administered until positive
	Preparation:				response is obtained.
	For IV injection				Monitor Plasma Magnesium
TE STATE OF THE ST	concentration of 20% or				level
V Magnes.	less should be used, the				Calcium Gluconate available for
20% s	rate of injection should				Magnesium toxicity
	not exceed 1.5 ml/min of				Magnoolani toxioity
	a 10% solution.				Monitor I&O



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Effective Date: May 2022 Review Date: May 2025

		Continue patient monitoring and
		notify doctor if patient's
		condition deteriorates.

Second Drawer

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Phenytoin	IV: Adult loading dose	Unknown. A	Control of status	CV: CV collapse,	case of emergencies.
	15-18mg/kg	hydantoin derivative	epilepticus of the tonic-	hypotension,	
	Max rate of infusion	that stabilizes	clonic (grand mal) and		Connect the patient to the
Brand:	should not exceed	euronal membranes	psychomotor (Temporal	Dermatologic	cardiac monitor; (Check vital
Dilantin	50ml/min.	and limits seizure	lobe) seizures.	bullous, exfoliative	signs: SPO2, RR, HR, BP
		activity by either	Preventions and	or purpuric	before, during and after
Available:		increasing efflux or	treatment of seizure	dermatitis, Systemic	administration)
250mg=5ml	Preparation for	influx of sodium ions	occurring during	lupus erythematosus	
(50mg=1ml)	infusion:	across cell	neurosurgery	(SLE) and Steven	Use only clear solution for
	Take the prescribed	membranes in the		Johnson Syndrome	injection. A slight color yellow is
	amount of Phenytoin and	motor cortex during		(SJS)	acceptable. Do not refrigerate
	dilute with 50 to 100 ml	generation of nerve			
9	NS give as IV infusion	impulses.		CNS: Nystagmus,	Do not withdraw drug suddenly
	(Do not exceed		Contraindication:	ataxia, dysarthria,	because seizures may worsen.
	50mg/min)		Hypersensitivity to	slurred speech,	
		Classification:	hydantoin products.	mental confusion,	If using to treat seizures, take
A III LIM BU III		Anticonvulsant		dizziness,	appropriate safety precautions.
PHENTOLE 250 mg/5, pt		Hydantoin	Sinus bradycardia,	drowsiness,	
Each 1 mi contains. Phenytoin sodium 50 mi For IV injection of			sinoatrial block, 2 nd and	insomnia,	Caution patient that drug may
Potect from freezing M. HIKMA Pharman			3 rd degree AV block	numbness, tremors,	color urine pink, red or reddish
Amman-Jordan			and patients with	headache, and	brown.
			strokes, Adam	photophobia.	
			syndrome because of		Continue patient monitoring and
			phenytoin's effect on	GI: Nausea,	notify doctor if patient's



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	ventricular automaticity.	vomiting, liver damage.	condition deteriorates.
		Life Threatening: CV Collapse, liver damage,SLE & SJS.	

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
	Adult Dose:	Action:	Indication:		Keep crash trolley on standby in
Generic:		Normal Saline is a	Indicated as a source	Adverse Effect:	case of emergencies.
Sodium Chloride 0.9%	As directed by a	prescription	of water and	Fast heartbeat	
	physician. Dosage is	medicine used for	electrolytes.	fever	Connect the patient to the
_	dependent upon the	fluid and electrolyte		rash	cardiac monitor; (Check vital
Brand:	age, weight and clinical	replenishment for		joint pain	signs: SPO2, RR, HR, BP
Sodium Chloride	condition of the patient	intravenous	Contraindication	shortness of breath	before, during and after
	as well	administration.	None known.	injection site	administration)
Available: Sodium Chloride 0.9% = 10ml	as laboratory determina tions.	Normal Saline may be used alone or with other medications.		swelling redness infection	During infusion, monitor closely BP, PR, ECG and adjust dose and rate accordingly to patient response and doctor's order
Ā		Classification: Belongs to a class		Caution: Sodium Chloride inje ction should be used with great care in	Monitor injection site for any signs of edema, extravasation and infection.
83 to Southern Shirt Southern		of drugs called Crystalloid Fluid.		patients with congestive	Monitor patient I&O
Charles in				heart failure, severe renal insuffici ency, and in clinical states in which there	Monitor urine output and signs of edema.



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	exists edema with sodium retention.In patients with diminished renal function, administration of Sodium Chloride may result in sodium retention.	Continue patient monitoring and notify doctor if patient's condition deteriorates.
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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Ipratropium Bromide	Adult and children over	Bronchodilation	Bronchodilator for	Resp:	case of emergencies.
	12 years 250-500 mcg 3-	anticholinergic,	maintenance treatment	Bronchospasm and	
	4x/day with doses 6-8	chemically related to	of bronchospasm	cough	Connect the patient to the
Brand:	hrs apart.	atropine, which	associated with COPD		cardiac monitor; (Check vital
Atrovent		blocks vagally	(solution aerosol)	CV: Hypotension	signs: SPO2, RR, HR, BP
		mediated reflexes by	Chronic Bronchitis and	and palpitation	before, during and after
Available:	Preparation:	antagonizing the	Emphysema		administration)
250 mcg/1ml	Take1ml (or according to	actions of		CNS: Anxiety,	
	doctor's order) dilute to	acetylcholine	Contraindication:	nervousness and	Assess respiratory status (rate,
	4ml NS give as nebulizer	causing	Hypersensitivity to	headache	rhythm, breath sound, degree of
		bronchodilation and	Atropine and		dyspnea)
15		inhibits secretion	Ipratropium		
		from serous and			Continue patient monitoring and
		seromucous glands	Caution:		notify doctor if patient's
al mes		lining the nasal	Avoid use in acute		condition deteriorates.
mcg/2 n 252 nition 255 ide anhy		mucosa.	bronchospasm as		
ent: 250 Um brom um brom			isolated agent for acute		
Atron Solution pratropi		Classification:	use. Use with		
		Anticholinergic	Salbutamol.		
		Antimuscarinic			



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	Parasympatholitic Broinchodilator		

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:is a	Indication:	Adverse Effect:	Keep crash trolley on standby
Salbutamol	Adult give 2 puffs every 4-6 hours	selective beta2- adrenoceptor	Asthma, Bronchospasm, Reversible airway	Resp: Difficulty breathing	in case of emergencies.
Brand Name:		agonist. At	obstruction,		Connect the patient to the
Ventolin		therapeutic doses it	acute prophylaxis	CV: Tachycardia,	cardiac monitor; (Check vital
	Preparation:	acts on the beta2-	against exercise-induced	trembling	signs: SPO2, RR, HR, BP
Available Dose: 5 mg/ml 20 ml Ventolin Respirator Solution Salbutamol (as sulphate) 0.5%w/v (5mg/ml) 20 ml	Shake well before use. For more than 1 inhalation wait for 2 minutes before repeating the procedure.	adrenoceptors of bronchial muscle to provide bronchodilation. With its fast onset of action (within 5 minutes) it is particularly suitable for the management and prevention of attacks in asthma. Classification: Bronchodilator	bronchospasm and other stimuli known to induce bronchospasm. Hyperkalemia Contraindication: Salbutamol must not be used to prevent premature labour in the case of a pre-eclampsia, placenta previa or bleedings.	CNS: headache, feeling faint, unexplained high temperature (fever) Derma: severe allergic reaction, lumpy skin, rash, swelling of the face, lips or eyelids	before, during and after administration) Assess respiratory status (rate, rhythm, breath sound, degree of Dyspnea) Continue patient monitoring and notify doctor if patient's condition deteriorates.



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Furosemide	Acute Pulmonary edema: IV: 40mg slowly if	Inhibits sodium and chloride	Edema associated with CHF, Cirrhosis with	CV: Orthostatic hypotension	case of emergencies.
Brand: Lasix	response is unsatisfactory after 15-30 min. may be	reabsorption at the proximal and distal	ascites or renal dysfunctions.	Thrombophlebitis	Connect the patient to the cardiac monitor; (Check vital
Frusid	increased up to 80mg and given over 1-2 min.	tubules and the ascending loop of	For hypertension or in	CNS: Dizziness, vertigo,	signs: SPO2, RR, HR, BP before, during and after
Available:	Hypertension/ Edema:	Henle.	combination with other antihypertensive	paresthesias, xanthopsia,	administration)
20mg=2ml	PO: 40mg initially, maintenance 20-40 mg	Classification:	medications	weakness	If the BP low hold the dose and inform doctor before
Ä	BID. If needed additional antihypertensive agents	Loop Diuretics	Contraindication: Hypovolemia,	GI: Nausea, anorexia, vomiting	administration
	may be added		dehydration, severe hyponatremia and	Hematologic:	Measure I&O and daily weight
	Preparation: Fill syringe with the		severe hypokalemia, Coma/pre-coma state	Leukopenia, anemia, thrombocytopenia,	Increase risk of orthostatic hypotension, advise patient to
Furosemide 21 lyection BP TRUSED 10 mg/ml	required amount of drug 20mg=2ml push directly		associated with allergies to	fluid and electrolyte imbalances	move slowly and to report any symptoms if it occur.
Startin, non-pyropanic Berlin propyropanic Each mit combanis Frameworke BP Up of Male for Injection of an Male for Injection of the analysis Male of Adham, Philosophia Male of Male Philosophia Male for Injection of the analysis Male for Injection of the Adham Male	IV no need to dilute.		sulphonamides may also be allergic to Furosemide	(hyponatremia, hypokalemia) hyperglycemia, hyperuremia,	Do not expose to light or do not use discoloured drug or solutions.
Medicine. List of Excelpients: Solid Disorder Disorder Espeli Solum Hydroxide. Indication Control (1988)			Caution:	metabolic alkalosis	5
Pictoria Claris			In patient with hepatic cirrhosis, elderly, breast feeding women		Discard diluted solutions after 24 hrs continue patient monitoring till further instruction from the doctor.
			In pregnant, use only if		nom the doctor.



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			the benefits outweighs the risk to the fetus.		Continue patient monitoring and notify doctor if patient's condition deteriorates.
Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic: Ephedrine Brand: Ephedrine Available: 30 mg/ml ampule	Adult Dose: 25 to 50 mg (range 10-50 mg) IM or SC IV: IV route may be used if an immediate response is required, 5-25 mg which may be repeated every 5 to 10 minutes until the desired response is obtained. Preparation: Take the prescribed amount using a syringe and administer according to doctor's order.	Action: a sympathomimetic amine, acts on part of the sympathetic nervous system (SNS). The principal mechanism of action relies on its indirect stimulation of the adrenergic receptor system by increasing the activity of norepinephrine at the postsynaptic α and β receptors. Classification: Sympathomimetic	Indication: Use to relieve low blood pressure during spinal anesthesia, treatment of shock unresponsive to fluid replacement, treatment of bronchial asthma, and reversible bronchospasm.	Adverse Effect: CV: tachycardia, palpitation and sweating. CNS: Dizziness, headache, nervousness, restlessness, tremors, sleeplessness GI: nausea, loss of appetite, gastric irritation Resp: DOB, tightness of chest, Derma: swelling of mouth, lips or tongue, severe allergic reaction Uro: Difficulty painful urination, urinary retention Caution: heart disease, angina pectoris, diabetes, hyperthyroidism, prostatic hypertrophy or hypertension and to patients receiving digitalis.	Keep crash trolley on standby in case of emergencies Connect the patient to the cardiac monitor; (Check vital signs: SPO2, RR, HR, BP before, during and after administration) Contraindications: Allergic reactions to ephedrine sulfate are rare. The hypersensitivity, if known, is a specific contraindication. Patients hypersensitive to other sympathomimetics may also be hypersensitive to ephedrine sulfate. Continue patient monitoring and notify doctor if patient's condition deteriorates



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby
Labetalol	IV Bolus:	It blocks α1, β1 and	Severe	Resp: Dyspnea and cough	in case of emergencies.
	20-50mg slowly or	β2 adrenergic	Hypertension		
Brand:	0.25mg/kg at least	receptors	particularly	CV: Heart failure, cardiac	Connect the patient to the
Trandate or	over 1-2 minutes.	contributing to the	following AMI in	arrhythmias, CVA, pulmonary	cardiac monitor; (Check vital
Normodyne	Then 20 mg q	blood pressure	pregnancy, with	edema and postural hypotension	signs: SPO2, RR, HR, BP
	10min. max 200mg	lowering effect	angina and		before, during and after
Available:	(excessive		hypertensive		administration)
100mg=20ml	bradycardia could be	It prevents reflex	crisis	CNS: dizziness, vertigo, fatigue	
	countered by	tachycardia seen			During infusion, monitor
	atropine 0.6-2.4mg	with most α			closely BP, PR, ECG and
	in divided doses)	blocking drugs and	Contraindication	GI: Gastric pain, flatulence and	adjust dose and rate
A		decreases plasma	:	constipation	accordingly to patient
	IV Infusion:	renin.	Sinus bradycardia		response and doctor's order
	2mg/min till		2 nd and 3 rd degree	Life Threatening:	Monitor urine output and
(A)	satisfactory	Classification:	Heart block,	Bronchial spasms	edema
	response, max	α and β adrenergic	Cardiogenic		
	200mg	blockers	shock CHF and	Caution:	Check RBS for diabetic patient
	Following AMI:		Asthma	In patients with hepatic impairment	before and during
	15mh/hr gradually increase to	Antihypertensive		and DM (it can mask cardiac signs of hypoglycaemia)	administration of drug.
I rain date	120mg/hr				If BP drop suddenly
Labet in hidrouts	Pregnancy 20mg/hr,				discontinue the drug and notify
Via fritz venus	double every				the doctor immediately.
20 6	30mins. Usually max				,
Kern F had	160mg/hr				To minimize postural
	Preparation Bolus:				hypotension; avoid patient
8	Withdraw the				upright position during and for
	prescribed amount				3 hrs after administration.
	(usually 20mg) give				



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directly as slow IV		Continue patient monitoring
over 2 mins. No		and notify doctor if patient's
need to dilute.		condition deteriorates.

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby
Dopamine	Inotropic Dose:	Action is dose	Hypotension		in case of emergencies
	IV: 5-10	related;	Bradycardia	Resp: Dyspnea	
Brand:	mcg/kg/min.	>10mcg/kg/min	Cardiogenic		Connect the patient to the
Intropin,		during hypotension	shock in infarction	CV:	cardiac monitor; (Check vital
Revimine	Pressor dose:	will causes mainly		Tachydysrhythmias	signs: SPO2, RR, HR, BP
	IV: 10-	alpha stimulation	Contraindication	Hypertension/	before, during and after
Available:	20mcg/kg/min.	with renal	:	Hypotension	administration)
200 mg=	Max:	vasoconstriction,	Patient with	Acute MI	Blood is not a substitute for
5 ml	50mcg/kg/min.	which in turn	Ventricular	Peripheral vasoconstriction	blood or fluid volume deficit. If
	(adjust dose	increases cardiac	Fibrillation,		deficit occurs, replace fluid
	according to	output, raises blood	Tachydysrhythmi	GI:	deficit first before giving
	response) increase	pressure and	as	Nausea and Vomiting	medications.
	by 1 to 4	improves renal blood	Hypertension		During infusion, frequently
(17)	mcg/kg/min at 10	flow	Hypersensitivity		monitor ECG, BP, PR,Urine
	to 30 min. intervals		to Dopamine		Output and color and
tonamine Fe		5-10mcg/kg/min	Pheochromocyto		temperature of the limbs.
100 mg/ 5 ml	Preparation:	stimulates	ma		
Mution for infus	1 ampule	dopaminergic beta			If diastolic pressure rises
Note that the state of the stat	Dopamine 200mg	adrenergic	Caution:		sharply decrease perfusion rate
Marine Cab matter	= 5 ml dilute with	receptors, producing	In patient on		and watch out carefully for
5 ml	45 ml Normal	cardiac stimulation	MAO inhibitors		further signs of vasoconstriction
₹67986/00 EXT	Saline to make a	and renal	with occlusive		unless such action is desired.
	total of 50 ml use	vasodilation.	vascular disease,		
	syringe pump.	Classification:	pregnant and children.		Check for urine output, If urine
	Adjust the dose	Ciassilication.	Gillaten.		flow is decreased without



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according to doctor's	Inotropic agent Sympathomimetic	hypotension, notify physician.
instructions.	Adrenergic Agonist agent	Continue patient monitoring and notify doctor if patient's condition deteriorates.

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby
Dobutamine	2-20 mcg/kg/min		Congestive Heart		in case of emergencies
Hydrochloride		Stimulates Beta 1-	Failure (CHF)	CV: Tachycardia,	
	Preparation:	Adrenergic		Tachydysrhythmias,	Connect the patient to the
Brand:	Available:	receptors, Increases	Short Term	Anginal Pain,	cardiac monitor; (Check vital
Dobutrex	250mg=5ml dilute	contractility and	treatment of	VT, VF, HTN,	signs: SPO2, RR, HR, BP
	with 45ml normal	heart rate. Little	cardiac	Nausea and Vomiting, Ischemia,	before, during and after
Available:	Saline or 5%	effect on Beta 2 and	decompensation	AMI, headache.	administration)
250mg=5ml	Dextrose to make	Alpha receptors.	in organic heart		During infusion, monitor ECG,
	total 50 ml use		diseases		BP, PR, Urine Output and
	syringe pump	Classification:			adjust the dose and rate
	adjust the dose	Inotropic with	Contraindication		accordingly.
	according to	Sympathomimetics	:		
	patient's BP		Tachydysrhythmi		Hypovolemia should be
OBUTAMINE M	doctor's order	Adrenergic	as		corrected first before starting
PANPHARMA		Agonist agent	Idiopathic		Dobutamine
250 mg Mml (12,5 mg/ml) S	Fill syringe with the		Hypertrophic		
Theory 20 mil Vial	required amount		Subaortic		During interaction with Beta
Seed information fueld in the seed of the	then inject patient		Stenosis		adrenoceptor blocking drugs so
	directly through IV		Hypovolemia		should not be administered
	as prescribed need		(need to correct		together.
	to dilute with		before using		
	Normal Saline		Dobutamine)		Record intake and output



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Shock with BP <100	Monitor glucose in diabetic patients
Poison induced shock	Continue patient monitoring and notify doctor if patient's condition deteriorates.
Hypersensitivity	
to Dobutamine or sulfites.	Incompatibilities: Do not mix with sodium Bicarbonate and other strong alkaline solutions.
Caution: When use in Acute MI	other strong alkaline solutions.

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Digoxin	IV: for rapid	Inhibits the sodium	Atrial	CV: Arrthymias, heart failure and	case of emergencies. Connect
	digitalization,	Potassium ATP	fibrillation/flatter	hypotension	the patient to the cardiac
Brand:	(AFib/Aflutter/PSV	phases.	PSVT for rate		monitor; (Check vital signs:
Lanoxin	T)	Increases cardiac	control (rarely	CNS: Agitation, dizziness, fatigue,	SPO2, RR, HR, BP before,
Digoxin	0.5-1mg over 5	contraction/ output	used) Mild to	generalized weakness, headache,	during and after administration)
Lanoxicap	min.	and decreases heart	moderate Heart	malaise	Before each dose assess apical
		rate.	failure (oral dose)		pulse, and check pulse for full
Available:	Additional dose of			GI: Anorexia, diarrhea, nausea,	minute, record and report
0.5 mg=2ml	0.1 to 0.3mg IV	Classification:		vomiting	changes in rate or rhythm.
	every 4 hrs as	Cardiac glycosides	Contraindication		Withhold drug and contact
	needed and as	Antiarrhythmic	±	Toxicity:	doctor if pulse is ≤ 60 min or >
	tolerated for 24 hrs		Hypersensitivity	VT, ↑K+	100 (adults)
			to the drug or its		
	PO: 0.75 mg-		components heart	Life Threatening:	Alert: Excessive slowing of the
	1.5mg over 24 hrs		block,	Arrhythmias	pulse rate (60 beats/min or less)



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Lanouting Office to the Authors of t	in divided doses Maintenance: 125- 250 mcg daily. Heart failure 62.5- 125 mcg once daily Preparation: Fill a syringe with 0.5mg=2ml of the drug give patient the prescribed dose as slow IV push over 5 mins. (no need to dilute)	complete/2 nd degree VF, VT, WPW syndrome	Caution: In renal failure and those with digitalis induced toxicity and Ventricular Tachycardia	may be a sign of digitalis toxicity. Withhold drug and notify prescriber. If these occur, check blood pressure and obtain a 12-lead ECG. Patients with hypothyroidism are sensitive to cardiac glycosides and may need larger doses. Injection must be given slowly and protect injection from light Measure intake and output and daily weight continue patient monitoring and notify doctor if patient's condition deteriorates.
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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic: Calcium Gluconate Brand: Kalcinate Available:	Adult Dose: IV: 250-500 mg q 10 min. PRN Preparation: Fill syringe with 1g=10 ml Calcium	Action: Maintains cardiac function Reduce cardiac acidity Classification:	Indication: Emergency treatment for hyperkalemia and hypermagenesae mia, Over dose with calcium channel	Adverse Effects: CV: Slows heart rate Peripheral vasodilation Hypotension VF arterial spasm Life Threatening:	Keep crash trolley on standby in case of emergencies Connect the patient to the cardiac monitor; (Check vital signs: SPO2, RR, HR, BP before, during and after administration)
Caution: Concentrate electrolyte	add 20 ml NSS to make total 30 ml IV push slowly	Electrolyte replacement, Antacid, Calcium Product	Antidote of Magnesium Sulfate Contraindication: Ventricular Fibrillation Metastasis bone disease Renal colic and hypercalcemia Digoxin toxicity	Cardiac Arrest	During IV administration monitor ECG to detect evidence of hypercalcemia (decreased QT interval associated with inverted T waves) Administer IV calcium slowly through a small bore needle into a large vein to prevent possibility of extravasations and necrosis. Do not mix with or inject in same tubing as Sodium Bicarbonate (NaHCO3) to prevent precipitate Continue patient monitoring and notify doctor if patient's condition deteriorates



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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effects:	Take history before
Aspirin	AMI and Acute	Decreases platelet	Reduction of risk	Aspirin Intolerance:	administering the drug and
	Coronary	aggregation by	of death in non-	Exacerbation of bronchospasm	ensure there is no
	Syndrome (ACS);	inhibiting	fatal MI in	·	contraindications
Brand:	300 mg PO Stat	prostaglandin	patients with	GI:	
Aspirin		synthesis.	history of	Gastric irritation (nausea,	Check doctor's order and
Aspilo	Prophylaxis for	_	Ischemic Heart	heartburn, epigastric discomfort),	administer exactly as prescribed
	Myocardial	Also have	Disease (IHD)	hepatotoxicity	
	Infarction; 81	Antipyretic effects;			Give drug with food or after
Available:	mg/day	acts in the	MI prophylaxis	Hematologic:	meals if su specting GI upset.
		thermoregulatory		Occult blood loss, haemostatic	
Tablets:	Antipyretic;	center of the	Fever	defects	
81 mg	300 mg PO	hypothalamus	Inflammatory		Continue patient monitoring and
300 mg			conditions;	Hypersensitivity:	notify doctor if patient's
	Preparation:	Classification:	rheumatic fever,	Anaphylactic shock	condition deteriorates
	ACS: Give orally	Anti-platelet	arthritis etc.		
0 0 0	300 mg tab			Salicylism: Dizziness, tinnitus,	
III	preferably chewed		Pain: mild to	difficulty hearing, nausea	
PI			moderate		
ASPILO ASPILO Gene Canal Aspira	Long term use:			Caution:	
PPAR 288 PPAR 288	As prescribed			G6PD	
E E E			Contraindication	Asthma	
<u> </u>			:	Uncontrolled Hypertension	
000			Allergy to	Hepatic Impairment	
ASPILO ASPILO ASPILO			Salicylates		
ASPIL ASPIL ASPIL			/NSAID any		
A			condition that		
SOUTH BREAMING DESTROY			may increase risk		
			of bleeding with		
			Aspirin, low		



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Platelets, haemorrhagic	
states,	
coagulation defects,	
haemophilia,	
peptic ulcer, Vitamin K	
deficiency, Reye's Syndrome	
etc.	
Children under 16yrs unless specified	

Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse Effect:	Keep crash trolley on standby in
Hydrocortisone	IV: 100-200 mg IV q 2-6	Anti-inflammatory,	Allergic states-severe	CV: hypotension and	case of emergencies.
Sodium Succinate	hours, dose varies with	Immunosuppressive	or incapacitating	shock	
	disease	(Glucocorticoid) and	allergic conditions		Connect the patient to the
Brand:		Salt Retaining		CNS: vertigo and	cardiac monitor; (Check vital
Solu-cortef		(Mineralocorticoid)	Status Asthmaticus	headache	signs: SPO2, RR, HR, BP
	Preparation:	It enters target cells			before, during and after
Available:	100 mg dilute with 2ml	and binds to	Short term	GI: peptic or	administration)
100mg per vial	Normal Saline, Give	cytoplasmic	inflammatory and	esophageal ulcers	,
	direct IV push slowly.	receptors, initiating	allergic disorders		Monitor blood sugar regularly
		many complex	Dermatologic disease	Hematologic: Na	because it can cause
		reactions resulting in	and autoimmune	and fluid retention,	hyperglycemia
		the above.	disorders	hypokalemia.	,, ,,



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HYDROCOFTISONE as sodium succinally 100 mg For I.M. or I.V. Grindon or I.V. E. P. I. CO COPPT E. P. I. CO COPPT	Classification: Corticosteroid (Short Acting), Glucocorticoid, Adrenal Cortical, Steroid Hormone	Contraindication: Hepatitis B, vaccine or varicella, and antibiotic resistant infections, Immunosuppressant. Caution: Patients with kidney disease (risk of edema), cirrhosis, recent GI surgery, active or latent peptic ulcer, inflammatory bowel disease, surgery	Hypersensitivity: Anaphylactoid or hypersensitivity reactions Musculoskeletal: Muscle weakness Other: Immunosuppressant , suppression of hypothalamic- pituitary adrenal axis	Continue patient monitoring and notify doctor if patient's condition deteriorates.
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Drug Name	Dosage and Route	Action/ Classification	Indication/ Contraindication	Adverse/Side Effects & Life Threatening	Nursing Responsibilities
Generic:	Adult Dose:	Action:	Indication:	Adverse	Keep crash trolley on standby in
Sodium Bicarbonate	Urinary Alkalinizer	Short acting	Management of	Effect:	case of emergencies
	IV 2-5 mEq/kg as a	systemic antacid	Metabolic acidosis		-
Brand:	4-8 hours infusion	and alkalinizing		CV: edema, Fluid	Connect the patient to the
Sodium Bicarbonate		agent. Rapidly	Used to alkalinize urine	and electrolytes:	cardiac monitor; (Check vital
		neutralize gastric	and promote excretion	metabolic alkalosis	signs: SPO2, RR, HR, BP
	In Metabolic Acidosis	acid	of certain drugs in over		before, during and after
Available:	2-5 mEq over 4-8 hours IV		dosage satiation	Neuro: Tetany	administration)
8.4% 50mEq/50 ml	dose adjusted according to	Classification:	(Phenobarbital, Aspirin)	·	·
1 mEq/1ml	pH, base deficit fluid limits	Fluid and		Life Threatening:	In Metabolic acidosis:
	and patient response.	electrolyte	Contraindication:	Pulmonary edema	Monitor patient closely by
	Preparation:	balance agent,	Metabolic or		observations of clinical
	IV Infusion: Add desired	antacid	Respiratory Alkalosis		conditions, measurements of



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% Sodium Bicarbona
in Sodium Bicarbonate Injection BP
A Trail Strail Many 42 cl. Innoil Someti Innoil Someti Zhoun 100 main BARENIA ACCORD
distribution distr

amount (8.4%
50mEq/50ml=1mEq/ml)
and dilute in an equal
amount of compatible IV
solution (5%DW for
injection or NS) usually 2-5
mEq/kg over 4-8 hrs. Do not
exceed 50mEq/hr

Hypocalcemia Excessive chloride loss

Renal Failure:
Use cautiously in congestive heart failure and renal insufficient

acid base status (blood pH, PO2, PCO2, HCO3) Observe signs of alkalosis

Observe and report signs and symptoms of improvement or reversal of metabolic acidosis. **Patient on Urinary Alkalinizer:** Monitor urinary pH as a guide dosage.

Flush the line before and after with NS. Severe tissue damage can occur with extravasation.

Continue patient monitoring and notify doctor if patient's condition deteriorates.



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Third Drawer

NAME OF ITEMS	USES AND INDICATION	HOW TO USE	COMPLICATION
Beybi GOLD EXTRA PURALISTRA CERAME ROVEN POPULATION STATEMENT POPULATION STATEMENT POPULATION PO	1. used as a quick TQ for cannulation or for securing the devices (IV tube, NGT, catheters) 2. Wound Irrigation 3. CPR	 Open sterile packaging by peeling open the top seam and pulling down. Place inner package on working surface and open up to see right and left gloves. Start with dominant hand first. Open packaging. Pick up glove for dominant hand by touching the inside cuff of the glove. Do not touch the outside of the glove. Pull glove completely over dominant hand. Insert gloved hand into the cuff of the remaining glove. Pull remaining glove on non-dominant hand and insert fingers. Adjust gloves if necessary. Once gloves are on, interlock gloved hands and keep at least six inches away from clothing, keeping hands above waist level and below the shoulders. 	Latex allergies and respiratory complications.



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		 6. To remove gloves, grasp the outside of the cuff or palm of glove and gently pull the glove off, turning it inside out and placing it into gloved hand. 7. Take ungloved hand, place fingers inside the other glove, and pull glove off inside out. 8. Perform hand hygiene. 	
I.V Administration Set	Vascular access for the administration of drugs and/ or fluids (life-saving medications) Allows administration blood components and maintains IV access to the patient	 Sterile spike: Connects the tubing into the IV bag. Drip chamber: Used to observe flow of IV fluids and / or to calculate drops per minute. Back-check valve: Prevents fluid or medication from travelling up the IV. Access ports: Used to infuse secondary medications and give IV push medications. Roller clamp: Used to regulate the speed of, or to stop or start, a gravity infusion. Extension set: 10 to 20 cm IV tubing attached to IV 	Complications of gaining I.V. may include infiltration, hematoma, an air embolism, phlebitis, extravascular drug administration, and intraarterial injection. Intraarterial injection is more rare, but as threatening.



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cannula. Helps to reduce micro-movements at IV insertion sites and protects from BBF exposure during IV tubing changes.



7. Slide clamps: Used to stop the infusion. Are needed to open and close IV infusion pump.

* Needleless cap: Added to the distal end of all extension sets of all lumens of VADs to prevent backflow of blood and BBF exposure to healthcare provider. Also added to indwelling subcutaneous devices (butterflies) to allow needleless access when administering medications

** Volume control set: A type of reservoir that holds a controlled volume of fluid from the IV bag. Limits volume of IV fluids or medications able to infuse into the patient. Often used in pediatrics. IV fluids are attached above the buretrol and refilled manually as the volume decreases.



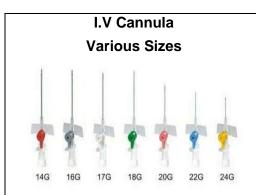
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Micropore Plaster 2.5cm Micropore Plaster 2.5cm Micropore Margin Report Repor	To secure gauze pads or wraps to protect catheter sites and wounds To secure devices to the skin		No complication
Mini Vein Sets Various Sizes	Nenipuncture Butterfly needle allows IV fluids to be infused to help rehydrate patient and restore his fluid levels. Administering medication	 Wash hands with soap and water or hand sanitizer and apply gloves Place a tourniquet (usually a stretchy, rubber band) around a location, usually on patient arm. Identify a vein and clean the area off with an alcohol wipe. Insert a small, hollow needle into the vein. You should see blood coming through the needle and into a collection tube or syringe. Remove the tourniquet and hold gentle pressure on the venipuncture site. Sometimes, they'll place a bandage over the site. 	Small risk of infection developing at the injection site.



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allows administration of fluids, medications, blood, and blood components and maintains IV access to the patient

- Don your gloves
- Clean the puncture site with the alcohol swab and allow to air dry
- Apply the tourniquet and do not repalpate the cleaned skin
- Placing traction on the skin below the intended puncture site, insert the cannula with the bevel up at an angle of 30o into the puncture site
- Advance the cannula and observe flashback
- Hold the needle introducer still whilst advancing the cannula forward, over the needle and fully into the vein
- Release the tourniquet and dispose the needle into | bleeding the sharps bin
- Connect your bionector to the cannula
- Secure the cannula in place with the sterile dressing
- Ensure not to cover the puncture site with the tape when securing down, as this can cover up any possible phlebitis developing
- Flush the bionector and cannula with 5ml of saline
- No resistance should be felt
- Check for any signs of extravasation / tissuing around the cannula site. Remove cannula if suspected
- Securing the cannula with Tegaderm
- Discard all waste into the correct disposal bins and ensure the patient is comfortable
- Remove your gloves and decontaminate your hands

- Peripheral IV catheter complications can result from the catheter (infection or phlebitis) or from the solution (circulatory overload, infiltration, sepsis, or allergic reaction)
- mild pain at the insertion site
- blood clot formation
- bruising



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Disposable. Syringes Various Sizes Disposable. Syringes Various Sizes	 Used to inject fluid/blood into, or withdraw fluid/blood from the body, Administer medication To check NGT placement to inject sterile water to fill balloon of Foleys Catheter 		Reuse of needles and syringes has caused spread of diseases, especially HIV and hepatitis .
Disposable Needle Various Sizes	Used to inject drugs (medication) under the skin		Reuse of needles and syringes has caused spread of diseases, especially HIV and hepatitis
GAUZE SWABS 10 x 10cm ary 100 freest White, Non-Sterile WHITE SWADS 10 x 10cm ary 100 freest WHITE SWADS WHITE SWADS	1. Sterile gauze is the basic tool used to stop bleeding and keep wounds clean (Wound Protection). 2. It treats small to medium cuts, burns, scrapes, and other wounds (Fluid Absorption). It also protects the area from dirt and debris	 Clean the wound thoroughly and then put the gauze pad over it. Wrap the gauze around the wound by starting below the wound, working your way upward. Do not wrap the wound too tightly. This might cause the gauze pad to stick to the wound. Secure the outer gauze with medical tape 	No complication



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	that can cause wounds to get		
	infected.		
Dressing Set (Disposable)	A sterile dressing is used to:	Perform hand hygiene, gather supplies, check	No complication
	(1) Protect the wound from	equipment for sterility, and gather additional supplies	
	bacteria in the environment.	(gauze, sterile cleaning solution, sterile gloves, etc.).	
	(2) Protect the environment	2. Place package on clean, dry, waist-level table.	
CHOICE Wound care	from bacteria in the wound.	3. Remove the outside sterile packaging and discard.	
DISPOSABLE DRESSING SET	(3) Absorb drainage.	4. 4. Grab the outer surface's outermost tip (corner of	
THE ACT OF THE PROPERTY OF THE	(4) Used to clean genital area	folded drape) and open the flap away from you.	
Control to the Contro	during insertion of urinary	5. Grab the side flaps and open outwards, and let it lie	
	catheter	flat on the table.	
		6. Grasping the outermost corner, pull the last flap	
		toward you, and lay it flat on the table.	
		7. Using sterile forceps, rearrange sterile equipment	
		on the sterile field in order of usage.	
		8. Supplies can be opened (following packaging	
		directions), then gently dropped onto the sterile field.	
		9. Add solution to the sterile tray by pouring the	
		solution carefully into the receptacle:	
		Verify solution and expiry date.	
		Open cap and place face up on non-sterile	
		surface.	
		Hold bottle two inches above receptacle and	
		pour the required amount slowly and without	



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Tourniquet Tourniquet	A tourniquet is used by the phlebotomist to assess and determine the location of a suitable vein for venipuncture. Tourniquets are used in an emergency situation to temporarily constrict and control blood flow. A tourniquet should only be used on arms and legs and looks like a strap with a buckle and a long, skinny handle.	If bottle is multi-use, recap and label it with the date and time of opening. Most sterile solutions are good for 24 hours. 1. Place the tourniquet high above where you're trying to inject, and tighten it gently. 2. Give veins a minute to fill up with blood and dilate. 3. Once the needle is in the vein, release the tourniquet. If you push the plunger before releasing the tourniquet, the shot may burst the vein or cause backflow into the surrounding tissues. 4. If you place the tourniquet high on patient's arm with the release clip facing inward, you can simply press the clip between patient's arm to release it with ease.	A prolonged tourniquet time may lead to blood pooling at the venipuncture site, a condition called hemoconcentration. Hemoconcentration can cause falsely elevated results for glucose, potassium, and protein-based analytes such as cholesterol.
Foleys Catheter F Various Sizes	 To drain the bladder prior to, during, or after surgery For investigations To accurately measure the urine output To relieve retention of urine To relieve urinary incontinence when no other 	 Perform hand hygiene Place patient in supine position with knees bent and hips flexed If soiling evident, clean genital area Perform hand hygiene Open dressing pack (aseptic field) and prepare equipment needed using aseptic technique Pour sterile normal saline onto tray Perform aseptic hand wash and don sterile gloves 	Urethral injury may occur from trauma sustained during insertion or balloon inflation in incorrect position: it is very important to ensure the catheter is in the bladder before inflating the



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means is practical	 Apply sterile drapes/towel For Female Patients: Separate labia with one hand and expose urethral opening. Using swabs held in forceps in the other hand clean the labial folds and the urethral opening. Move swab from above the urethral opening down towards the rectum. Discard swab after each urethral stroke into waste bag or designated waste area. Lubricate catheter Insert catheter into the urethral opening, upward at approximately 30 degree angle until urine begins to flow. Inflate the balloon slowly using sterile water to the volume recommended on the catheter. ALWAYS ensure urine is flowing before inflating the balloon. Withdraw the catheter slightly until resistance is felt and attach to drainage system Remove gloves and perform hand hygiene Secure the catheter to the thigh with either a catheter securement device or tape Clean trolley and dispose of used articles into yellow biohazard bag Perform hand hygiene For Male Patient: Lift the penis and retract the foreskin if non-circumcised. Do not force the foreskin back. A sterile gauze swab can be used to hold the penis. 	balloon, this can be confirmed by visualizing the stream of urine prior to balloon inflation. Haemorrhage False passage (catheter pushed through urethral wall): The risk of false passage is actually higher when using a smaller catheter; ensure catheter size utilized is appropriate for patient's age and size. Urethral strictures following damage to urethra. This may be a long term problem Infection To minimize risk of infection insertion of IDC's must be performed using surgical aseptic technique with single use sterile gloves. Regular hygiene should be maintained whilst IDC is in situ.

• Using other hand, clean the urethral opening with

o Where possible avoid



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swabs held in forceps. Use a circular motion from the urethral opening to the base of the penis. Discard swab into waste bag or designated waste area. Hold the penis with slight upward tension and perpendicular to the patient's body. Insert the catheter. When the first sphincter is reached (at level of pelvic floor muscles) gently bring the penis down to face the child's toes, apply constant gentle pressure. If resistance is felt the following strategies should be considered: Remove the catheter and utilize a 2nd tube of lubricant Increase traction on penis and apply gentle pressure on the catheter. funable to pass the catheter seek assistance from treating medical team. DO NOT use force as you may damage the urethra. Advance the catheter and gently insert it completely into the urethra until the connection portion. ALWAYS ensure urine is flowing before inflating the balloon. Inflate the balloon slowly using sterile water to the volume recommended on the catheter. Withdraw the catheter slightly till resistance is felt and attach to drainage system Reposition the foreskin if applicable	disconnecting the IDC circuit to minimize risk of contamination Monitor for and report signs of infection including fever, offensive smelling urine, unexplained blood or cloudy urine. Psychological trauma Paraphimosis due to failure to return foreskin to normal position following catheter insertion: To minimise risk, remember to replace the foreskin to normal position in non- circumcised patients and check at catheter care or nappy change that the foreskin is in place.



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		 Remove gloves and perform hand hygiene Secure the catheter to the thigh with either catheter securement device or tape Clean trolley and dispose of used articles into yellow biohazard bag Perform hand hygiene 	
Ryles NGT Tube Various Sizes 8FG Blue 10FG Black 12FG Grey	To drain gastric contents, decompress the stomach, obtain a specimen of the gastric contents, or introduce a passage into the GI tract. To treat gastric immobility, and bowel obstruction. Drainage and/or lavage in drug overdosage or poisoning.	 Verify the physician's order for the type of tube to be inserted. Gather and prepare the equipment. Perform hand hygiene. Confirm the patient's identity using at least two patient identifiers. Explain the procedure to the patient (if the patient is conscious) to ease anxiety and promote cooperation. Inform her that she may experience some nasal discomfort, that she may gag, and that her eyes may water. Emphasize that swallowing will ease the tube's advancement. 	The main complications of NG tube insertion include aspiration and tissue trauma. Placement of the catheter can induce gagging or vomiting, therefore suction should always be ready to use in the case of this happening.
(AFG) Green 16FG Orange (8FG) Red 20FG Yellow	In trauma settings, NG tubes can be used to aid in the prevention of vomiting and aspiration, as well as for assessment of GI bleeding. NG tubes can also be used for enteral feeding initially.	 Agree on a signal that the patient can use if she wants you to stop briefly during the procedure. Provide privacy and assist the patient into the high Fowler position, unless contraindicated. Stand at the patient's right side if you're right-handed or at her left side if you're left-handed to ease insertion. Drape the towel or fluid-impermeable pad over the patient's chest to protect her gown and bed linens from spills. Offer tissues, and have the patient gently blow her nose to clear her nostrils. 	



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Place the facial tissues and emesis basin well within the patient's reach.
Help the patient face forward with her neck in a neutral position.
Determine the length of the tube to be inserted to reach the stomach; hold the end of the tube at the tip
of the patient's nose. Extend the tube to the patient's earlobe and then down to the xiphoid process.
Mark this distance on the tubing with the tape.
(Average measurements for an adult range from 22" to 26" [56 cm to 66 cm].) It may be necessary to add
2" (5 cm) to this measurement in tall individuals to ensure entry into the stomach.
Put on gloves to comply with standard precautions and other personal protective equipment, as needed,
if splashing of body fluids is likely.
Determine which nostril will allow easier access; use a penlight and inspect for a deviated septum or other
abnormalities. Ask the patient whether she ever had nasal surgery or a nasal injury. Assess airflow in both
nostrils by occluding one nostril at a time while the
patient breathes through her nose. Choose the nostril with the better airflow. If the patient can respond, ask
whether she has previously undergone NG tube placement. If she has, then ask which nostril is better
for insertion.
Administer viscous lidocaine 2% (for oral use) or nebulized lidocaine, as ordered, following safe
medication administration practices. Ask the patient to sniff and swallow to anesthetize the nasal and
oropharyngeal mucosa.



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 To minimize injury to the nasal passages, lubricate the first 3" (7.6 cm) of the tube with a water-soluble lubricant. Using a water-soluble lubricant prevents 	
lipoid pneumonia, which may result from aspiration of an oil-based lubricant or from the tube accidentally slipping into the trachea.	
 Instruct the patient to hold her head straight and upright. 	
 Grasp the tube with the end pointing downward, curve it if necessary, and carefully insert it into the more patent nostril. 	
Aim the tube downward and toward the ear closer to the chosen nostril. Advance it slowly to avoid pressure on the turbinates and resultant pain and bleeding.	
When the tube reaches the nasopharynx, you'll feel resistance. Instruct the patient to lower her head	
slightly to close the trachea and open the esophagus. Then rotate the tube 180 degrees toward the opposite nostril to redirect it so that the tube won't enter the patient's mouth.	
 Unless contraindicated, offer the patient a cup or glass of water with a straw. Direct her to sip and swallow as you slowly advance the tube to help the 	
tube pass to the esophagus. (If you aren't using water, ask the patient to swallow.) Aim the tube downward and toward the ear closer to the chosen nostril.	
Advance it slowly to avoid pressure on the turbinates and resultant pain and bleeding.	
 Use a tongue blade and penlight to examine the patient's mouth and throat for signs of a coiled section of tubing (especially in an unconscious patient). 	



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		 Coiling may indicate an obstruction. Carefully advance the tube as the patient swallows, and watch for signs of respiratory distress, which may mean that the tube is in the bronchus and must be removed immediately. Stop advancing the tube when the tape mark reaches the patient's nostril. Use a variety of bedside methods to determine tube location during insertion: 1 Watch for signs of respiratory distress (coughing and dyspnea). 2 Aspirate secretions with a catheter-tip or bulb syringe, as shown below, and inspect the visual characteristics of the tube aspirate; fasting gastric secretions commonly appear grassy-green or clear and colorless 3 Anticipate an X-ray to verify placement; a properly obtained and interpreted X-ray is recommended to confirm placement of any blindly inserted NG tube before its initial use for feedings or medication administration. Secure the NG tube to the patient's nose using a commercial securement device or tape. If you're using a commercial securement device, follow the manufacturer's application instructions 	
Alcohol Swabs	Uses of Alcohol Swabs: a. first aid for minor cuts, b. clean skin before injection, c. disinfect, kill bacteria & clear objects, d. clean skin before		

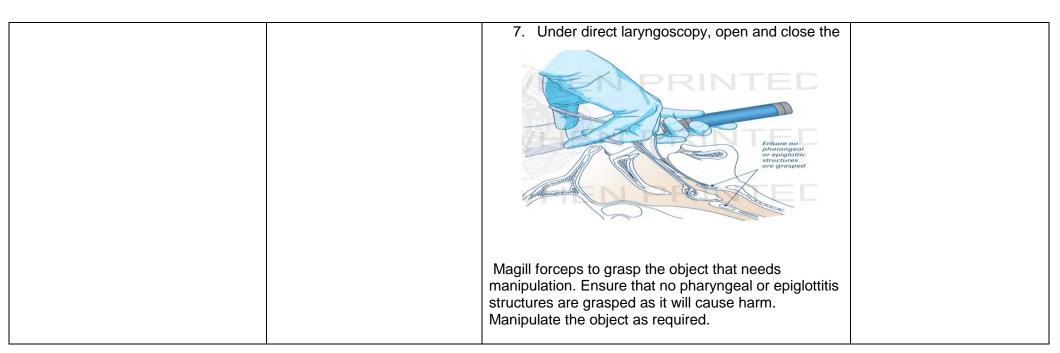


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	venipuncture for intravenous therapy or blood sampling		
Magills Forceps	 To guide a tracheal tube into the larynx or a nasogastric tube into the esophagus under direct vision. To remove foreign bodies for the airway/ pharynx. Aid passage of an endotracheal tube into the larynx To facilitate the insertion of an orogastic tube. 	 Open mouth and inspect oral cavity Remove any dentures or removable Perform laryngoscope Suction as required. Grasp the forceps in the right hand with thumb and ring finger inserted into the holes Insert the forceps (whilst closed) into the patient's mouth. 	1. Trauma to the tissue surrounding the pharynx uvula and tongue. 2. Manipulating a partially obstructed airway may cause the object to totally occlude the airway



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Endotracheal TubesWith Cuff Various Sizes



- The endotracheal tube serves as an open passage through upper airway. The purpose of endotracheal intubation is to permits air to pass freely to and from the lungs in order to ventilate the lungs.

Laryngoscope technique

- Give medications if required
- Pre-oxygenate patient with high concentration oxygen for 3-5mins
- Position patient
 - Neck flexed to 15°, head extended on neck (i.e. chin anteriorly), no lateral deviation
- Stand behind the head of the patient
- Open mouth and inspect: remove any dentures/debris, suction any secretions
- Holding laryngoscope in left hand, insert it looking down its length
- Passing the tongue
 - Slide down right side of mouth until the tonsils are seen
 - Now move it to the left to push the tongue centrally until the uvula is seen
- Advance over the base of the tongue until the epiglottis is seen

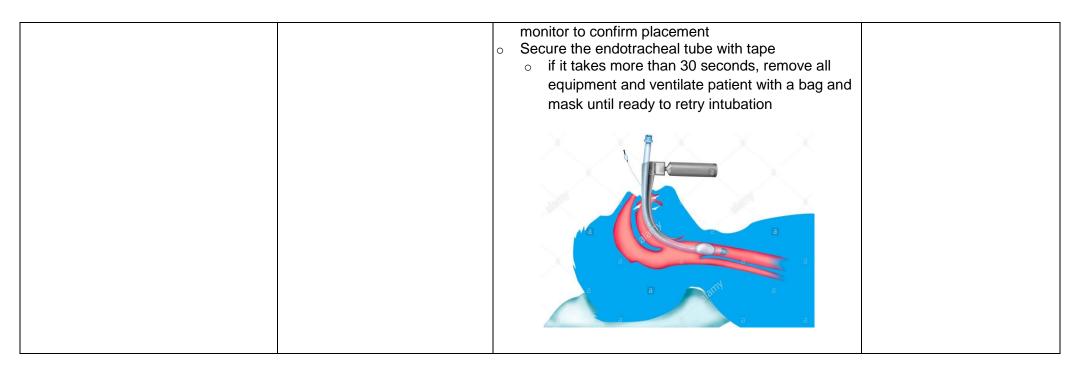
Insertion technique

- Apply traction to the long axis of the laryngoscope handle (this lifts the epiglottis so that the V-shaped glottis can be seen)
- Insert the tube in the groove of the laryngoscope so that the cuff passes the vocal cords
- Remove laryngoscope and inflate the cuff of the tube with ~15ml air from a 20ml syringe
- Attach ventilation bag/machine and ventilate (~10 breaths/min) with high concentration oxygen and observe chest expansion and auscultate to confirm correct positioning
- Consider applying CO2 detector or end-tidal CO2

Upper airway and nasal trauma, tooth avulsion, oralpharyngeal laceration. laceration or hematoma of the vocal cords, tracheal laceration, perforation, hypoxemia, and intubation of the esophagus. Inadvertent intubation of the right mainstem bronchus is reported in 3-9% of all intubations in adults. Aspiration rates are 8–19% in intubations performed in adults without anesthesia. Sinusitis, tracheal necrosis or stenosis, glottic edema, and ventilator-associated pneumonia may occur with prolonged use of endotracheal tubes.



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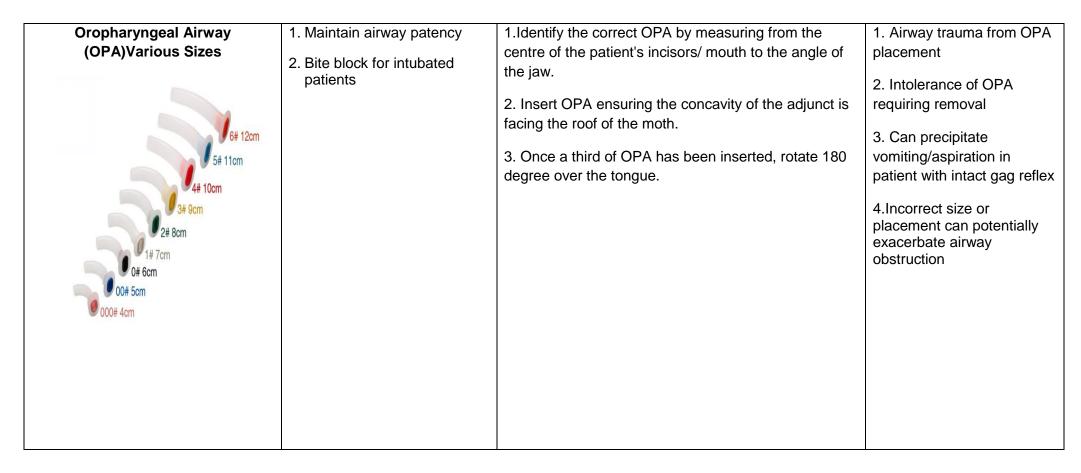


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Endotracheal(E.T) Tube Size: 4	 Alters the shape of an 	lubricate stylet with water soluble gel	Trauma due to
MM	ETT to facilitate intubation	insert stylet into ETT	protrusion of the stylet
		bend the stylet into the desired shape	tip beyond the end of the
	Stiffens the ETT to aid	 optimal shape for intubation direct laryngoscopy is 	ÉTT
	passage into the trachea	'straight-to-the-cuff' with a 'hockey stick' bend at	
		the cuff of no more than 35 degrees	2. Inadvertent removal of
		ETT is inserted from the right side of the patient's	the ETT when removing
		mouth to maximize your view and provide optimal	the stylet
		control of the position of the tip of the endotracheal	and digital
		tube	
		Stylet	
		ET tube	
		Jet of oxygen through	
		aperture moving stylet upward to trachea	
		Trachea	
		(Airway)	
		Esophagus	

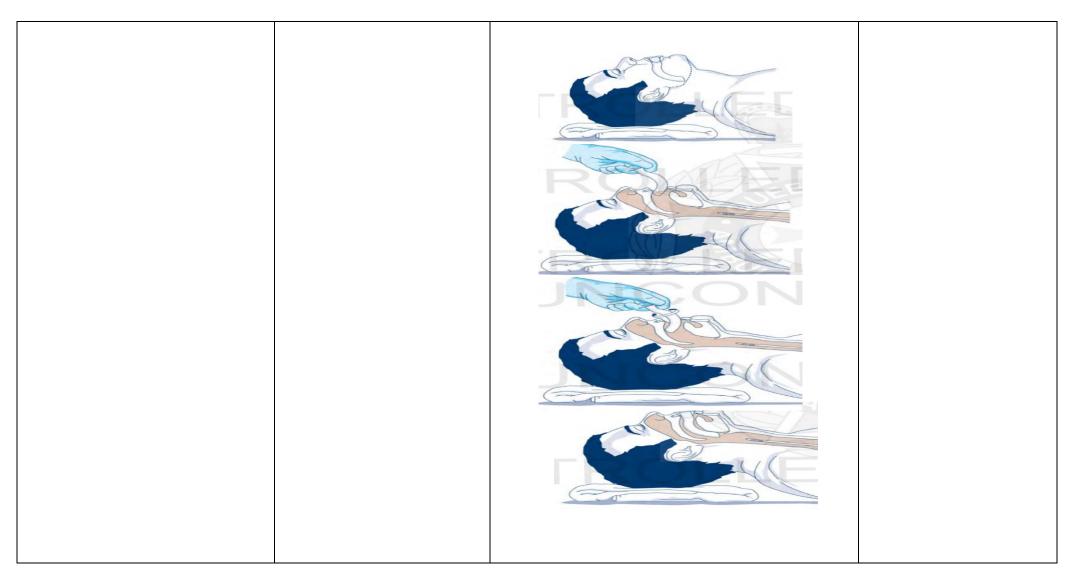


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K.Y Lubricating Jelly	- Used to intubation: K-Y jelly can minimize the degree of surface trauma to the trachea and tracheal rings as the tube passes the vocal cords.		
Razors	If the patient has a hairy chest, remove the hair by using razor from necessary locations for self-adhesive defibrillation pad or paddle placement. If the patient has a hair in genital area removes the hair by using razor (in order to insert Foley catheter clearly).		Irritant contact dermatitis. Nicks/cuts.
LaryngoscopyWith Blades	 Remove foreign objects from the throat Collect tissue samples, Perform laser treatment Remove growths from the vocal cords. Oral endotracheal tube insertion 	 Position yourself for optimal visualization of the larynx. Place the patient's head in the appropriate position to align the oral, pharyngeal and laryngeal axes Infant: slight elevation of the shoulders. Small child: slight extension of the head Older child/adult: extension of the head (elevation of 	Laryngoscopy is usually safe, but there is a small risk of: • Reactions to anesthesia • Bleeding in the throat • Infection • Hoarseness



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the heads may also be required)



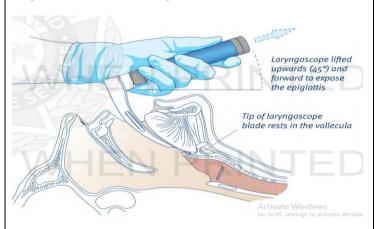
- 3. Open the patient's mouth and insert the oral cavity.
- 4. Remove any dentures or removal plates as required.
- 5. Grip laryngoscope handle with left hand in a position to ensure optimal control and mechanical advantage.
- 6. Place the laryngoscope blade into the right side of the patient's mouth, gently sweep the tongue to the left and position the blade midline in the mouth.
- 7. if laryngoscope blade is difficult to position correctly , consider:
- Inserting the blade separately and reconnecting with the handle when in position: or



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- inserting the laryngoscope blade while the handle is angled and once in the oral cavity, rotate the laryngoscope to the midline.
- 8. Move the laryngoscope blade progressively down the tongue identifying relevant anatomy.
- 9. Gently place the tip of the laryngoscope blade in the vallecula.
- 10. Lift the blade upwards and forward at 45 degree angle to expose the epiglottis.



11.Identify glottic structures (commences with the posterior cartilages and interarytenoid notch, before the glottis opening and the vocal cords come into view. If view of glottic structure is poor, consider suctioning and /or external laryngeal manipulation



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Battery	Used for laryngoscope and torch		
Scissor	Use to cut materials such as sutures, skin tissue, bandages, clothing and any other materials that need immediate access.		
Torch	 Intubation To examine patient's eyes by shines a bright light into an unconscious patient's eye to check for brain death. If the pupil constricts, the brain is OK. To check for any foreign body in mouth/nose 		
Tegaderm	Protect catheter sites and wounds 2. To secure devices to the skin 3. Cannulation	The central portion of the card may be removed, leaving the film suspended on a frame, which facilitates easy precise placement of the dressing. Once in position, the frame is removed and the film is lightly smoothed into position.	Skin irritation and hypersensitivity reactions.



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Suction Tube VariousSizes (14 - 16 FG)	Removal of secretion from mouth, oropharynx, trachea, and bronchial tubes.	 Nasotracheal Suctioning: Before suctioning, determine whether your facility requires a practitioner's order, and obtain one if necessary. Gather and prepare the equipment. Perform hand hygiene. Confirm the patient's identity using at least two patient identifiers. Provide privacy. Explain the procedure to the patient even if he's unresponsive. Tell him that suctioning usually causes transient coughing or gagging but that coughing is helpful for removing secretions. If the patient has been suctioned previously, summarize the reasons for suctioning. Continue to reassure the patient 	slow heart rate, known as bradycardia, is one of the most common suctioning complications.



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throughout the procedure to minimize anxiety, promote relaxation, and decrease oxygen demand. • Put on personal protective equipment, as needed to comply with standard precautions. Assess the patient's vital signs, breath sounds, and general appearance to determine the need for suctioning, and establish a baseline for comparison after suctioning. Review the patient's arterial blood gas values and oxygen saturation levels if they're available. • If the patient's condition is unstable, attach him to a continuous cardiac monitor. Make sure that the alarm limits are set appropriately for the patient's current condition and that the alarms are turned on, functioning properly, and audible to staff. • Evaluate the patient's ability to cough and deepbreathe because these actions will help move secretions up the tracheobronchial tree. • Check the patient's history for contraindications, including a deviated septum; nasal polyps; nasal obstruction; nasal trauma; epistaxis; acute head, facial, or neck injury; laryngospasm; tracheal surgery; gastric surgery with anastomosis; coagulopathy;

myocardial infarction; bronchospasm; or mucosal



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swelling.	
Unless contraindicated, place the patient in semi- Fowler or high Fowler position to promote lung expansion and productive coughing.	
Position yourself with your dominant hand toward the foot of the bed.	
Remove the top from the normal saline solution or sterile water bottle.	
Open the package containing the sterile solution container.	
• Using sterile technique, open the suction catheter kit and put on the gloves. If using individual supplies, open the suction catheter and the gloves, placing the clean glove on your nondominant hand and the sterile glove on your dominant hand.	
Using your nondominant (nonsterile) hand, pour the normal saline solution or sterile water into the solution container.	
Place a small amount of water-soluble lubricant on the sterile area of the catheter. Lubricant may be used to facilitate passage of the catheter during nasotracheal suctioning.	



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Place a sterile towel over the patient's chest, if
desired, to provide an additional sterile area.
desired, to provide an additional sterile area.
Using your dominant (sterile) hand, remove the
catheter from its wrapper. Keep it coiled so it can't
touch a nonsterile object. Using your other hand to
manipulate the connecting tubing, attach the catheter
to the tubing. If the practitioner orders a sputum
specimen, connect the in-line specimen trap between
the suction control valve and the suction tubing. (See
the "Sputum collection by tracheal suctioning"
procedure.)
Using your nondominant hand, set the suction
pressure. 1Typically, pressure may be set between
100 and 150 mm Hg. 1Higher pressures don't
enhance secretion removal and may cause traumatic
injury. Occlude the suction port to assess suction
pressure.
Dip the catheter tip in the saline solution to lubricate
the outside of the catheter and to reduce tissue
trauma during insertion.
With the catheter tip in the sterile solution, occlude
the control valve with the thumb of your nondominant
hand. Suction a small amount of solution through the
catheter to lubricate the inside of the catheter, which
facilitates passage of secretions through it.



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<u> </u>	, , , , , , , , , , , , , , , , , , ,
	Lubricate the tip of the catheter with the sterile,
	water-soluble lubricant to reduce tissue trauma during
	insertion.
	Instruct the patient to take three to six deep breaths
	to help minimize or prevent hypoxia during suctioning.
	Hyperoxygenate the patient with an appropriate
	1
	oxygen delivery device, as indicated. If the patient is
	receiving oxygen, evaluate his need for
	preoxygenation. If indicated, instruct him to take three
	to six deep breaths while using his supplemental
	oxygen. (If needed, the patient may continue to
	receive supplemental oxygen during suctioning by
	leaving his nasal cannula in one nostril or by keeping
	the oxygen mask over his mouth.)
	Disconnect the oxygen from the patient, if
	applicable.
	аррисамо.
	Using your nondominant hand, raise the tip of the
	patient's nose to straighten the passageway and
	facilitate insertion of the catheter.
	Insert the catheter into the patient's nostril while
	gently rolling the catheter between your fingers to help
	it advance through the turbinates.
	• As the nationt inhales, quickly advance the catheter
	As the patient inhales, quickly advance the catheter



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attempts.

until you meet resistance. To avoid oxygen loss and tissue trauma, don't apply suction during insertion. • If the patient coughs as the catheter passes through the larynx, briefly hold the catheter still, and then resume advancement when the patient inhales. After inserting the catheter, apply suction intermittently by removing and replacing the thumb of your nondominant hand over the control valve. Simultaneously use your dominant hand to withdraw the catheter as you roll it between your thumb and forefinger. This rotating motion prevents the catheter from pulling tissue into the tube as it exits, thus avoiding tissue trauma. Each suctioning event should be limited to 15 seconds to prevent hypoxia. 1 • If applicable, resume oxygen delivery by reconnecting the source of oxygen and hyperoxygenating the patient's lungs before continuing to prevent or relieve hypoxia. • Observe the patient, and allow him to rest for a few minutes before the next suctioning. The timing of each suctioning and the length of each rest period depend on his tolerance of the procedure and the absence of complications. To enhance secretion removal, encourage the patient to cough between suctioning



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• Observe the secretions. If they're thick, clear the catheter periodically by dipping the tip in the saline solution and applying suction. Normally, sputum is watery and tends to be sticky. Tenacious or thick sputum usually indicates dehydration. Watch for color variations: White or translucent is normal, yellow or green may indicate infection, brown usually indicates old blood, and red indicates fresh blood. When sputum contains blood, note whether it's streaked or well mixed. Also, indicate how often blood appears. If the patient's heart rate and rhythm are being monitored, observe for arrhythmias. If arrhythmias occur, stop suctioning and ventilate the patient. • After suctioning, hyperoxygenate the patient by using a manual resuscitation bag or asking him to take six deep breaths. • Clear the connecting tubing by aspirating the remaining saline solution or water. • Remove and discard your gloves and the catheter in an appropriate receptacle.

• Replace the suction equipment and supplies, as

• Remove other personal protective equipment, if

needed.

worn.



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		T	T
		Perform hand hygiene.	
		 Auscultate the patient's breath sounds bilaterally, obtain vital signs, monitor oxygen saturation level by pulse oximetry, and assess the patient's work of breathing, if indicated, to assess the procedure's effectiveness. Clean and disinfect your stethoscope using a disinfectant pad. Perform hand hygiene. Document the procedure 	
Connectors Tapered	Used for connecting suction		
Polypropylene I.D 5MM	source to suction waste		
	collection systems, suction catheters,		



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ECG Recording Paper	Performed routine examination	
	method for determining heart	
	conditions. It provides	
	information pertaining to the	
	heart rate, heart rhythm, and	
	electrical activity of cardiac	
	chambers and atria.	
	An ECG is helpful in	
	diagnosing various	
	cardiovascular diseases and in	
	controlling the courses of	
	disease.	



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5. Document History and Version Control

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Wafa Mohammed Al Wadhahi Mark Niño Yap Galang	Dr. Preeti Srivastava Dr. Muna Al Shekaili Tahra Ahmed Al Balushi Ph. Sharifa Al Razaqi Huda Said Al Hadi	Dr. Bader Al Habsi					

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Appendices

Appendix 1. IV Solutions Cheat Sheet

I.V. fluids, their contents, tonicities & pH:

Solution	Glucose	Na⁺	K⁺	Ca⁺⁺	Cl-	Lactate	Tonicity	pН
5% Dextrose	50	-	-	-	-	-	Isotonic	3.5 - 6.5
10% Dextrose	100	-	-	-	-	_	Hypertonic	3.5 - 6.5
0.9% NaCl	-	154	-	-	154	-	Isotonic	4.5 - 7.0
0.45% NaCl	T -	77	-	-	77	-	Hypotonic	4.5 – 7.0
5% D + 0.9% NaCl	50	154	-	-	154	-	Hypertonic	3.5 – 6.5
5% D + 0.45% NaCl	50	77	-	-	77	-	Hypertonic	3.5 – 6.5
Ringer's	_	147	4	5	156	-	Isotonic	5.0 – 7.5
Lactated Ringer's	-	130	4	3	109	28	Isotonic	5.0 – 7.5

Some of the common I.V. solutions and their characteristics:

Solutions	Indications	Advantages	Disadvantages	Considerations
5%	To maintain	Inexpensive &	* Causes red cell	* Not the solution
Dextrose in	water balance	readily available	clumping (cannot be	of choice in shock
water	& to supply		given with blood)	* Use only to
	calories for cell		* Incompatible with	establish an
	metabolism		some medications	emergency I.V. line
			* May cause water	for drug
			intoxication,	administration
			hyponatremia or	
			hyperglycemia	
0.9% NaCl	* Initial fluid &	* Inexpensive &	May cause diuresis,	* Use cautiously in
	electrolyte	readily available	hypernatremia and	patients with heart
	replacement in	* May be used as	acid-base imbalance	failure or renal
	all types of	initial plasma		dysfunction
	hypovolemia	expander while		* Monitor for signs
	* Cardiac	blood is being typed		& symptoms of fluid
	arrest	& matched		overload
Lactated	* Initial fluid	* Inexpensive &	May lead to volume	* Use with caution
Ringer's	replacement in	readily available	overload or congestive	in liver disease or
	all types of	* Rarely causes	heart failure	anorexia
	hypovolemia	adverse reaction		* May induce
	* Cardiac			hyponatremia with
	arrest			multiple infusions



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Isotonic Solutions

Normal Saline Solution (NSS) (0.9& NaCl)

Osmolality

- 308 mOsm/L
- Contains
 - Water
 - Sodium (154 mEq/L)
 - Chloride (154 mEq/L)

- Isotonic solution of choice for expanding ECF volume.
- Infused to correct extracellular fluid volume deficit.
- Used alongside administration of blood products.
- Used to replace large sodium losses such as burn injuries and trauma.

Caution

Should not be used for patients with heart failure, pulmonary edema, and renal impairment.

Dextrose 5% in Water (D5W)

Osmolality

- 252 mOsm/L
- Contains
 - Water
 - Glucose (50g/L)

Uses

- Initially isotonic and provides free water when dextrose is metabolized (making it
- Expands the ECF and ICF, helpful in rehydrating and excretory purposes.
- Used to treat hypernatremia.

Should NOT be used for fluid resuscitation because hyperglycemia can result. Should be avoided in clients at risk for increased intracranial pressure

Lactated Ringer's Solution in 5% Dextrose

Other Names

- D5LRS
- LR
- Ringer's Lactate
- Hartmann Solution

Osmolality

• 273 mOsm/L

Contains

- Water
- Sodium (130 mEq/L)
- Potassium (4 mEq/L)
- Calcium (3 mEq/L)
- Chloride (109 mEq/L) Lactate (28 meg/L)

- Used to correct dehydration, sodium depletion, and replace GI tract fluid losses,
- Also used in fluid losses caused by burns, fistula drainage, and trauma
- Often administered for patients with metabolic acidosis because it is an alkalizing solution.

Caution

• Should not be given to patients who cannot metabolize lactate (e.g., liver disease, lactic acidosis). Used in caution for patients with heart failure and renal failure.

Ringer's Solution

Osmolality

273 mOsm/L Contains

Similar composition with Lactated Ringer's but without the lactate.

Similar indications for Lactated Ringer's solution but without the contraindications related to lactate.

Nursing Considerations for Isotonic Solutions

- Document baseline data. Before infusion, assess the patient's vital signs, edema status, lung sounds, and heart sounds. Continue monitoring during and after the infusion.
- Observe for signs of fluid overload. Look for signs of hypervolemia such as hypertension, bounding pulse, pulmonary crackles, dyspnea, shortness of breath, peripheral edema, jugular venous distention, and extra heart sounds
- Monitor manifestations of continued hypovolemia. Look for signs that indicate continued hypovolemia such as, decreased urine output, poor skin turgor, tachycardia, weak pulse, and hypotension.

 Prevent hypervolemia. Patients being treated for hypovolemia can quickly develop fluid overload following rapid or
- over infusion of isotonic IV fluids.
- Elevate the head of the bed at 35 to 45 degrees. Unless contraindicated, position the client in semi-Fowler's position.
- Elevate the patient's legs. If edema is present, elevate the legs of the patient to promote venous return.

 Educate patients and families. Teach patients and families to recognize signs and symptoms of fluid volume overload. Instruct patients to notify their nurse if they have trouble breathing or notice any swelling.
- Close monitoring for patients with heart failure. Because isotonic fluids expand the intravascular space, patients
- with hypertension and heart failure should be carefully monitored for signs of fluid overload. **Check integrity of IV Solution.** Solution should be clear with the container and seals intact. IV solutions are covered in overwrap, do not remove until ready for use. Check for minute leaks by squeezing the container firmly, if leaks are found, discard solution as sterility may be compromised.

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Hypertonic Solutions

· Should be administered using a central line if possible.

Hypertonic Sodium Chloride Solutions

- Sodium (513 mEq/L)
- Chloride (513 mEq/L) 1030 mOsm/L

5% NaCl

- Sodium (855 mEq/L)
- Chloride (855 mEq/L)
- 1710 mOsm/L

- Used in the acute treatment of severe hyponatremia and should only be used in critical situations to treat hyponatremia.
- Used in patients with cerebral edema.
- Some patients may need diuretic therapy to assist in fluid excretion.

Caution

Caution

- Should be infused at a very low rate to avoid risk of pulmonary edema.
- If administered in large quantities and rapidly, they may cause ECF excess and circulatory

Used in the treatment of ketosis of starvation and provides calories and free water.

Do NOT infuse using the same line as blood products as it can cause RBC hemolysis.

Dextrose 10% (D10W)

Other names

 Dextrose 10% in Water

Osmolality

- 505 mOsm/L
- Contains
 - Water Glucose (100g/L)
 - 380 kcal/L

Dextrose 20% (D20W)

Other names Dextrose 20% in

Water Osmolality

- 660 mOsm/L
- Contains
 - Water
 - Glucose (200g/L)

Uses

Used as an osmotic diuretic that causes fluid shifts between various fluid compartments to promote diuresis.

Dextrose 50% (D50W)

Other names

Dextrose 50% in Water

Osmolality

2523 mOsm/L

Contains

• Glucose (500g/L)

Uses

- Used to treat severe hypoglycemia.
- Administered rapidly via IV bolus.

Nursing Considerations for Hypertonic Solutions

- Document baseline data. Before infusion, assess the patient's vital signs, edema status, lung sounds, and heart sounds, glucose levels. Continue monitoring during and after the infusion
- **Watch for signs of hypervolemia.** Since hypertonic solutions move fluid from the ICF to the ECF, they increase the extracellular fluid volume and increase the risk for hypervolemia. Look for signs of swelling in arms, legs, face, shortness of breath, high blood pressure, and discomfort in the body (e.g., headache, cramping)
- Monitor and observe the patient during administration. Hypertonic solutions should be administered only in high acuity areas with constant nursing surveillance for potential complications.
- **Verify order.** Prescriptions for hypertonic solutions should state the specific hypertonic fluid to be infused, the total volume to be infused, the infusion rate and the length of time to continue the infusion.
- Assess health history. Patients with kidney or heart disease and those who are dehydrated should not receive hypertonic IV fluids. These solutions can affect renal filtration mechanisms and can easily cause hypervolemia to patients with renal or heart problems.
- Prevent fluid overload. Ensure that administration of hypertonic fluids does not precipitate fluid volume excess or overload.
- **Do not administer peripherally.** Hypertonic solutions can cause irritation and damage to the blood vessel and should be administered through a central vascular access device inserted into a central vein. Monitor blood glucose closely. Rapid infusion of hypertonic dextrose solutions can cause hyperglycemia. Use with
- caution for patients with diabetes mellitus. Check integrity of IV Solution. Solution should be clear with the container and seals intact. IV solutions are covered in overwrap, do not remove until ready for use. Check for minute leaks by squeezing the container firmly, if leaks are found, discard solution as sterility may be compromised.

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Hypotonic Solutions

0.45% Sodium Chloride Solution (0.45% NaCl)

Other names

- Half-strength normal saline
- 1/2 NS

Osmolality

154 mOsm/L

- Water
- Sodium (77 mEq/L) Chloride (77 mEq/L)
- **Contains**

0.33% Sodium Chloride Solution (0.33% NaCl)

Other names

- 5% Dextrose in 0.33
- Sodium Chloride One-third strength normal saline

Osmolality

365 mOsm/L (hypotonic once dextrose is metabolized)

Contains

- Water
- Sodium (56 mEq/L) Chloride (56 mEq/L)
- Glucose (50g/L) 170 kcal/L

Uses

Caution

Used to allow kidneys to retain needed amounts of water. Free water helps kidneys eliminate solutes

Used for replacing water in patients who have hypovolemia with hypernatremia.

• Excessive use may lead to hyponatremia due to the dilution of sodium.

Typically administered with dextrose to increase tonicity.

Caution

Used in caution for patients with heart failure and renal insufficiency.

0.225% Sodium Chloride Solution (0.255% NaCl)

Other names

5% Dextrose in 0.255 Sodium Chloride

Osmolality

77 mOsm/L

Contains

- Water
- Sodium (38 mEq/L)
- Chloride (38 mEq/L) Glucose (50g/L)

- Used as maintenance fluid for pediatric patients as it is the most hypotonic fluid available.
- Typically administered with dextrose to increase tonicity.

2.5% Dextrose in Water (D2.5W)

Osmolality

126 mOsm/L

Contains

- Water
- Glucose (25g/L)

Used to treat dehydration and decrease the levels of sodium and potassium.

Caution

Should NOT be administered with blood products as it can cause hemolysis of red blood

Nursing Considerations for Hypotonic Solutions

- Document baseline data. Before infusion, assess the patient's vital signs, edema status, lung sounds, and heart sounds. Continue monitoring during and after the infusion. **Do not administer in contraindicated conditions.** Hypotonic solutions may exacerbate existing hypovolemia and
- hypotension causing cardiovascular collapse. Avoid use in patients with liver disease, trauma, or burns
- Risk for increased intracranial pressure (IICP). Should not be given to patients with risk for IICP as the fluid shift may cause cerebral edema (remember: hypotonic solutions make cells swell). Monitor for manifestations of fluid volume deficit. Signs and symptoms include confusion in older adults. Instruct
- patients to inform the nurse if they feel dizzy. Warning on excessive infusion. Éxcessive infusion of hypotonic IV fluids can lead to intravascular fluid depletion,
- decreased blood pressure, cellular edema, and cell damage. **Do not administer along with blood products.** Most hypotonic solutions can cause hemolysis of red blood cells especially during rapid infusion of the solution.
- Check integrity of IV Solution. Solution should be clear with the container and seals intact. IV solutions are covered in overwrap, do not remove until ready for use. Check for minute leaks by squeezing the container firmly, if leaks are found, discard solution as sterility may be compromised.

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Appendix 2. Document Request Form

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Section A:	Completed	l by D	ocument Req	uester			
1. Reque	ester Details						
Name	Mark Nino (Wafa Moha			Date of	Reque	st	May 2022
Institute	Al Masarra	Hospita	d	Mobile			93689028 / 91259752
Department	Nursing Affairs Department			Email			-
The Purpose	of Request		•				1
☑ Devel	op New Docu	ıment	□ Modification	n of Docume	ent	(Cancelling of Document
1. Docu	ıment Inform	ation					
Document T	itle	Crash	Cart Study Guide	e			
Document C	Code	AMR	H/ADMIN/SG/00	01/Vers.01			-
Section B:	Completed by	y Docu	ment Controller	-			
☐ Approved ☐ Cancelled ☐ Forward To:						То:	
Comment a	nd Recomme	ndation					art or
Name	R	uvilee F	Ramel-Bueno	Date			May 2022
Signature		RBUE	no	Stamp		+	· · · · · · · · · · · · · · · · · · ·





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Appendix 3. Document Validation Checklist

AMRH/ADMIN/SG/001/Vers.01 Meets the Criteria Comment Yes No N/A 1. Approved format used 1.1 Clear title – Clear Applicability 1.2 Index number stated 1.3 Header/ Footer complete 1.4 Accurate page numbering 1.5 Involved departments contributed 1.6 Involved personnel signature /approval 1.7 Clear Stamp 2. Document Content 2.1 Clear purpose and scope 2.2 Clear definitions 2.3 Clear policy statements (if any) 3. Well defined procedures and steps 3.1 Procedures in orderly manner 3.2 Procedure define the use of relevant forms 3.3 Procedures to define flowchart 3.5 Responsibilities are clearly defined 3.6 Necessary forms and equipment are listed 3.7 Forms are numbered 4. General Criteria 4. General Criteria 4. Policy is adherent to MOH rules and regulations 4.2 Policy within hospital/department scope 4.3 Relevant policies are reviewed 4.4 Items numbering is well outlined 4.5 Used of approved font type and size 4.6 Language is clear, understood and well structured Recommendation	Docu	ment Title: Crash Cart Study Guide	Documo			
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