



HEALTH HOLDING

HAFER ALBATIN HEALTH  
CLUSTER  
MATERNITY AND  
CHILDREN HOSPITAL

<b>Department:</b>	Quality Management And Patient Safety		
<b>Document:</b>	Multidisciplinary Policy and Procedure		
<b>Title:</b>	Management of Infusion Pumps		
<b>Applies To:</b>	All Health Care Providers		
<b>Preparation Date:</b>	November 10, 2024	<b>Index No:</b>	QM&PS-MPP-012
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## 1. PURPOSE:

- 1.1 To ensure that any infusion is given correctly and safely in the most appropriate method.
- 1.2 To ensure that the pumps and their associated consumable items are managed to ensure their optimum performance.

## 2. DEFINITIONS:

- 2.1 **Infusion pump**- an apparatus designed to deliver measured amounts of a drug or IV solution through IV injection over time.

## 3. POLICY:

- 3.1 The hospital management ensures adequate number of infusion pumps is available in the patient care areas.
- 3.2 The staff ensures that pumps are ready for use at the correct place and at the correct time, are maintained and stored correctly and are in the best working order.
- 3.3 All staff (including clinical and technical) that have contact with the pumps have the appropriate training, competence and confidence to perform their duties correctly and demonstrable competencies are recorded.
- 3.4 Infusion pumps have documented preventative maintenance, inspection and testing on a regular basis.
- 3.5 Infusion pumps have "free flow" protection.

## 4. PROCEDURE:

- 4.1 Purchasing of infusion pumps is managed so as to minimize the number of different models.
- 4.2 The staff members are given adequate teaching on the operation of the infusion pump and competency is performed.
- 4.3 The staff will ensure that the infusion pump must be of the correct type for the infusion route and application
- 4.4 Infusion pump must be physically inspected for lack of damage and a valid service date prior to use.
- 4.5 The staff must make sure prior to that the pump will only operate correctly and safely with the correct administration set and/or syringe.
- 4.6 The pump must be set correctly for the infusion to be delivered correctly and safely without nuisance alarms.
- 4.7 Blood must only be given through pumps(model: volumed  $\mu$ 700/Company:Arcomed) that have been approved for the delivery of blood and only use the appropriate tubing set for blood transfusion.
- 4.8 Drugs that are photosensitive must be given through opaque or appropriately colored giving sets.
- 4.9 All infusion pumps have settings to maintain the flow rate according to the desired needs of the patient. If the door opens accidentally or when pump tubing was removed from the device, the infusion pumps give the alarm and thereby the patient can be protected from the free flow of fluids.



- 4.10 Only registered clinical practitioners can stop or temporarily halt an infusion, alter its settings or adjust the administration set or syringe once a pump has been started. This prevents the accidental alteration of the settings by a non-registered practitioner and ensures a continuous delivery of the infusion.
- 4.11 The pump function and settings must be checked immediately prior to commencing the infusion and immediately after any alteration to settings that might affect the delivery of the infusion.
- 4.12 All equipment associated with the pump, including disposables, must remain with the pump when they are detached from the patient.
- 4.13 If an adverse incident involving an infusion occurs it must be reported.
- 4.14 All infusion pumps are periodically checked to ensure the safety of infusion pump.
- 4.15 The biomedical department ensures the regular checking of the infusion pump. All infusion pumps are documented with periodic preventive maintenance label.

## 5. MATERIAL AND EQUIPMENT:

- 5.1 Infusion pump

## 6. RESPONSIBILITIES:

- 6.1 Staff nurses
- 6.2 Biomedical engineers
- 6.3 Nurse educators

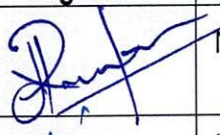



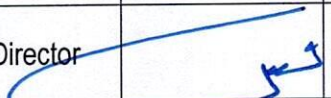
## 7. APPENDICES:

N/A

## 8. REFERENCES:

- 8.1 <https://medical-dictionary.thefreedictionary.com/infusion+pump>
- 8.2 JCAHO's National Patient Safety Goal for infusion pump free-flow <https://www.ncbi.nlm.nih.gov/pubmed>
- 8.2 Central Board for Accreditation of Healthcare Institutions (CBAHI) Manual 2016

## 9. APPROVALS:

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