

## Procedure : Preparation of Nebulizer Using Oxygen Regulator

### **Equipment & Consumables**

Oxygen source with **oxygen regulator & flowmeter**  
 Nebulizer chamber  
 Nebulizer mask or mouthpiece  
 Oxygen tubing  
 Prescribed nebulizer medication  
 Normal saline (if ordered)  
 3 mL syringe + 21G/23G needle  
 Alcohol swab  
 Gloves  
 Kidney dish

### **Syringe and Needle for Nebulizer Medication**

#### **Syringe**

**Size: 3 mL syringe**

Reason: Most nebulizer medications are **2–3 mL**  
 Allows **accurate measurement** of small volumes  
*(5 mL syringe is acceptable, but 3 mL is preferred in OSCE)*

#### **Needle**

**Size: 21G or 23G needle**

**Length: 1 inch** (standard)

Reason: Suitable for **drawing up medication** from ampoule or vial  
 Not used for injection, **only for preparation**

### **Documentation**

Date & time  
 Medication & dose  
 Oxygen flow rate used  
 Patient response  
 Nurse's name / signature

No.	Step / Criteria	Done (✓)	Not Done (X)
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1	Performs hand hygiene	<input type="checkbox"/>	<input type="checkbox"/>
2	Introduces self and explains procedure to patient	<input type="checkbox"/>	<input type="checkbox"/>
3	Prepares all required equipment and consumables	<input type="checkbox"/>	<input type="checkbox"/>
4	Checks doctor's order and correct medication	<input type="checkbox"/>	<input type="checkbox"/>
5	Checks medication label and expiry date	<input type="checkbox"/>	<input type="checkbox"/>
6	Uses correct syringe (3 mL) and needle (21G/23G) to draw up medication	<input type="checkbox"/>	<input type="checkbox"/>
7	Transfers medication safely into nebulizer chamber	<input type="checkbox"/>	<input type="checkbox"/>
8	Assembles nebulizer correctly and connects tubing to oxygen regulator	<input type="checkbox"/>	<input type="checkbox"/>
9	Sets oxygen flow rate to <b>6–8 L/min</b>	<input type="checkbox"/>	<input type="checkbox"/>
10	Positions patient upright or semi-Fowler's	<input type="checkbox"/>	<input type="checkbox"/>
11	Applies mask/mouthpiece and ensures mist is produced	<input type="checkbox"/>	<input type="checkbox"/>
12	Observes patient throughout nebulization	<input type="checkbox"/>	<input type="checkbox"/>
13	Provides feedback and post-procedure care (rinse mouth, hand hygiene)	<input type="checkbox"/>	<input type="checkbox"/>
14	Documents procedure and patient's response	<input type="checkbox"/>	<input type="checkbox"/>