

# Modified Oxford Maneuver - anesthesiologist protocol

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## Abstract

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## Protocol

### Check materials

#### Step 1.

Put on a flat, clean table:

1. Nitroprusside 25mg/ml 2ml ampoule;
2. phenylephrine 10mg/ml 1ml ampoule;
3. Saline (NaCl 0.9%) bags: 100ml (x2) and 500ml (x1);
4. Syringes: 20ml (x1), 5ml (x2);
5. Intravenous catheter (22 gauge);
6. Catheter connector (Y-connector or three-way connector);
7. Common medical procedure gloves;
8. Tourniquet;
9. Alcohol 70% to clean the puncture region;

### Drugs dillution

#### Step 2.

Be prepared to choose between 100-150 mcg bolus dose of either drug, therefore:

1. Dilute 50mg (2ml) of nitroprusside in 498ml of saline (bag) using a 5ml syringe. Final solution: 100mcg/ml. Identify the bag and the syringe used with 'nitro' label. Cover the bag with a black plastic bag because light will destroy nitro.
2. Dilute 10mg (1ml) of phenylephrine in 99ml of saline (bag) using a 5ml syringe. Final solution: 100mcg/ml. Identify the bag and the syringe used with 'phenyl' label.
3. Label a 20ml syringe and a 100ml bag as "saline".

#### 📄 EXPECTED RESULTS



## Venous catheterization

**Step 3.**

1. Explain the procedure to the voluntary.
2. Apply the tourniquet 5cm proximal to the basilic vein.
3. Identify basilic vein and clean the skin area of the puncture.
4. Put on gloves and perform catheterization. Release the tourniquet.
5. Connect the Y-connector or tri-way.
6. Test the catheter by aspiration and by flushing saline. Ask about pain during flush (should be painless). Examine the arm next to the catheter tip for extravascular infusion.
7. Catheter fixation.

**Prepare syringes****Step 4.**

1. Aspirate 5ml of the nitro bag into the nitro syringe.
2. Aspirate 5ml of the phenyl bag into the phenyl syringe.
3. Aspirate 20ml of the saline bag into the saline syringe.

**First trial****Step 5.**

When asked to start infusions:

Infuse nitro 100mcg then flush with 5ml of saline.

One minute later you will infuse phenyl 100mcg then flush 5ml of saline.

After the end of 2 minutes, they will tell you the adjusted doses for the next trial. There will be some time for the patient to rest before next trial.

**Second trial****Step 6.**

Infuse nitro (new dose) then flush 5ml of saline when asked for.

Infuse phenyl (new dose) then flush 5ml of saline when asked for.

This trial sometimes needs to be repeated when technical problems occurs with monitors.

**End the procedure****Step 7.**

Remove the catheter and ask the voluntary to press the entry point with sterile cotton.