EVIS: Information Sheet for Clinical Staff: INTERVENTION Arm



Study: EVIS: Early Vasopressors in Sepsis (EudraCT No: 2021-006886-39)

| EVIS Participant No.: | | | |
|--|------------------------|---------------------------|---------------------------|
| Randomisation: | | Insert Pat | ient ID/Addressograph |
| This patient has been random | ised to the | label | ioni ib// iddi oooogiapii |
| EARLY PERIPHERAL VASC | PRESSOR / | | |
| INTERVENTION arm of the E | VIS study. | | |
| Participant randomised on: | | • | |
| (insert date) at (insert date) | | (insert time hh:mm) | |
| If you need more information | n: | | |
| Contact the Research | Team on | | 338 |
| The protocol and other | current study document | s can be found on the wel | osite 🔳 🚟 🔭 |
| www.evis.scot.nhs.uk | or by scanning the QRS | code opposite | SCAN ME |

Key information for Clinicians for EARLY PERIPHERAL VASOPRESSOR / INTERVENTION arm

Intervention: Norepinephrine (noradrenaline) administered via peripheral intravenous route

Study treatment period: maximum 48 hours from the time of randomisation (see above).

Norepinephrine dose for peripheral administration

- Can only be initiated and prescribed by trained research staff on site delegation log
- For participants requiring immediate treatment, start norepinephrine at a dose of 0.05 micrograms/kg/minute.
- Titrate norepinephrine dose to target MAP ≥ 65 mmHg using agreed local practice
- Maximum dose is 0.15 micrograms/kg/min
- Dose can be reduced to zero at any time during study treatment period in order to maintain MAP ≥ 65mmHg, including immediately post-randomisation

Maintenance and rescue treatment that may be prescribed by the treating clinician

- Rescue IV fluids: If target MAP not reached at maximum norepinephrine dose of 0.15 micrograms/kg/min or clinician concerns of organ hypoperfusion, administer 250-1000ml balanced crystalloid via peripheral IV route.
- Maintenance IV fluids: At clinician discretion, maintenance rather than resuscitation IV fluid can be at a rate of no more than 125 ml/hour.
- Rescue vasopressors: If target MAP not reached using maximum permitted norepinephrine
 dose and use of rescue IV fluids/concerns of organ hypoperfusion, then rescue vasopressor can
 be administered via a CENTRAL route. PERMANENTLY STOP peripheral norepinephrine
 infusion.
- Weaning peripheral norepinephrine: Once MAP ≥ 65 mmHg on a stable dose, wean as per usual practice This can be done by reducing the dose by ≥ 25% of the stabilising dose at intervals of ≤ 4 hours to maintain MAP ≥ 65mmHg. The infusion can be restarted if required within 48 hour post-randomisation study period.
- Requirement for operative intervention: Maintain treatment allocation where possible Anaesthetist discretion permitted for other fluids, blood product and vasopressor use.
- End of study period (> 48 hours since randomisation): The peripheral norepinephrine infusion may be continued if permitted locally once the EVIS study period is completed.

PERIPHERAL NOREPINEPRINE INFUSION STOPPING CRITERIA

The peripheral norepinephrine infusion <u>must be IMMEDIATELY AND PERMANENTLY STOPPED</u> and the participant returned to usual care treatment if one of the following occur.

- Systolic BP > 180 mmHg <u>OR</u> Diastolic BP > 110 mmHg that fails to resolve despite following local treatment protocols.
- Tachyarrhythmia (ventricular tachycardia or ventricular fibrillation) that is life-threatening
- Suspected local extravasation of IMP graded severe (Grades 3 or 4 see protocol).
 - Disconnect the infusion line from the cannula.
 - o Attempt to aspirate 3-5ml from the peripheral venous cannula
 - Remove the cannula and apply a dressing
 - o Mark the extravasation area and elevate the limb if able to reduce swelling
 - o Inform research team and continue to manage as per local policy

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Guidance on preparation and administration of peripheral IV norepinephrine

Preparation

Dilute norepinephrine wither either 0.9% sodium chloride injection or 5% glucose to achieve <u>a final</u> <u>concentration of 16 micrograms/ml</u>.

Supplies

- Norepinephrine (noradrenaline) 1 mg/ml Concentrate for solution for infusion.
- For 250ml infusion: 1 x 250ml infusion bag and 1 x 4ml Norepinephrine 1mg/ml ampoule
- For 500ml infusion: 1 x 500ml infusion bag and 1 x 8ml Norepinephrine 1mg/ml ampoule

Method

- 1. Withdraw volume of diluent from infusion bag equal to the volume of norepinephrine solution that will be added (4 or 8ml) and then discard.
- 2. Draw up contents of one ampoule (4ml or 8ml) of <u>norepinephrine 1 mg/ml concentrate for solution for</u> infusion and add to the infusion bag.
- 3. Mix thoroughly and inspect. Do not use if solution it is discoloured or contains precipitate.
- 4. Label infusion bag as per standard practice. Apply EVIS study label (optional)

Peripheral IV catheter use for norepinephrine administration

Choose at least a 20G (pink) or larger peripheral venous catheter

Administration

Table below provides the drug dose and flow rate per hour for starting and maximum dose for peripheral norepinephrine administration.

| Patient weight* | Starting dose of 0.05 micrograms / kg / min | | Maximum dose of 0.15 micrograms / kg / min | |
|--------------------|--|------------------------------------|--|------------------------------------|
| | Total drug dose per hour (micrograms / hour) | Flow rate per hour ** (ml / hr) | Total drug dose per hour (micrograms / hour) | Flow rate per hour ** (ml / hr) |
| 40kg | 120 | 7.5 | 360 | 22.5 |
| 50kg | 150 | 9.4 | 450 | 28.1 |
| 60kg | 180 | 11.3 | 540 | 33.8 |
| 70kg | 210 | 13.1 | 630 | 39.4 |
| 80kg | 240 | 15.0 | 720 | 45.0 |
| 90kg | 270 | 16.9 | 810 | 50.6 |
| 100kg | 300 | 18.8 | 900 | 56.3 |
| 110kg | 330 | 20.6 | 990 | 61.9 |
| 120kg*** | 360 | 22.5 | 1080 | 67.5 |

Key

Worked Infusion rate calculation for peripheral norepinephrine infusion in patients > 120kg

123kg patient dosed at norepinephrine starting dose of 0.05 micrograms/kg/min

Step 1: Calculate the dose (micrograms/minute)

= 0.05 micrograms/kg/min x 123 kg = 6.15 micrograms/minute

Step 2: Convert dose from microgram/minute to micrograms/hour

= 6.15 micrograms/minute x 60 = 369 micrograms/hour

Step 3: Calculate the infusion rate (ml/hour)

 $= \frac{=369 \text{ micrograms/hour}}{16 \text{ micrograms/ml}} = 23.1 \text{ ml/hour}$

Note: If the infusion pump cannot accept volumes to 1 decimal place round to 23ml/hour

^{*} Round to nearest 10 kg for dosing purposes

^{**} Round to nearest whole ml if pumps cannot accommodate 1 decimal place

^{***}Calculate to exact kg for weights above 120kg