

# Tenecteplase Intravenous for Adults (Myocardial Infarction indication)

## Who can administer

Doctor only

## Important information

- This monograph refers to the use of tenecteplase for **MYOCARDIAL INFARCTION**. For use in **STROKE** - see **separate monograph**
- Should be used under guidance of senior cardiology physician
- Indicated for use within 6 hours after the onset of acute MI symptoms
- Tenecteplase **should NOT BE ADMINISTERED in a line containing Glucose 5%**

## Available preparations

**Metalyse 10,000 units** (50mg) (vial with 50mg tenecteplase, and pre-filled syringe of 10ml solvent)

Metalyse 8,000 units (40mg) is NOT AVAILABLE in UHG

## Reconstitution

- Check that the cap of the vial is still intact
- Remove the tip-cap from the syringe. Then immediately screw the pre-filled syringe on the vial adapter and penetrate the vial stopper in the middle with the spike of the vial adapter.
- Add the water for injections into the vial by **pushing the syringe plunger down slowly to avoid foaming**
- **Reconstitute by swirling gently**
- The reconstituted preparation results in a colourless to pale yellow, clear solution. Only clear solution without particles should be used
- Directly before the solution will be administered, invert the vial with the syringe still attached, so that the syringe is below the vial
- Transfer the appropriate volume of reconstituted solution of Metalyse into the syringe, based on the patient's weight
- Disconnect the syringe from the vial adapter
- Any unused solution should be discarded

## Infusion fluids

- Not required

## Methods of intravenous administration

### **Bolus intravenous injection**

- Administer required dose over about 10 seconds

## Dose in adults

**Indication:** Thrombolytic treatment of suspected myocardial infarction with persistent ST elevation or recent left Bundle Branch Block within 6 hours after the onset of acute myocardial infarction (AMI) symptoms.

| Body weight (kg)       | Tenecteplase (units) | Tenecteplase (mg) | Corresponding volume of reconstituted solution |
|------------------------|----------------------|-------------------|--|
| less than 60kg         | 6,000 units          | 30mg              | 6ml  |
| 60kg to less than 70kg | 7,000 units          | 35mg              | 7ml  |
| 70kg to less than 80kg | 8,000 units          | 40mg              | 8ml  |
| 80kg to less than 90kg | 9,000 units          | 45mg              | 9ml  |
| 90kg or more           | 10,000 units         | 50mg              | 10ml   |

### Elderly patients

- Use with caution in patients 75 years or older, due to higher bleeding risk

## Storage

Store below 25°C

## References

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## Therapeutic classification

Thrombolytic agent