

## Who can administer

Administration RESTRICTED - see [Appendix 1](#)

## Important information

- See monitoring requirements (below and overleaf)
- AdenoSCAN is only to be used in the Cardiac Angio laboratory
- While both preparations (AdenoCOR and AdenoSCAN) contain the same concentration of drug, they are licensed for different indications. See under 'dose' for more information
- Adenoscan is an unlicensed preparation in Ireland

## Available preparations

AdenoCOR 6mg per 2mL vial

Adenosine 6mg per 2mL vial (Focus pharmaceuticals) - unlicensed preparation- stocked while licensed (AdenoCOR) version is in short supply <sup>(June 2023)</sup>

AdenoSCAN 30mg per 10mL vial

## Reconstitution

Already in solution

## Infusion fluids

Not required - product ready for use

## Methods of intravenous administration

### **Intravenous bolus (for all uses except for cardiac angio)**

- **Using AdenoCOR**, give as a rapid IV bolus over 2 seconds
- Inject as proximally as possible and follow with a rapid flush of Sodium chloride 0.9%

### **Intermittent intravenous infusion (in cardiac angio only)(administer using an electronically controlled infusion device)**

- **Using AdenoSCAN**, administer undiluted, at a rate of 140microgram/kg/minute for six minutes.
- Give the radionuclide into a separate venous site, after the first 3 minutes of the Adenoscan infusion

## Dose in adults

### **AdenoCOR**

#### **First dose**

- Give 3mg, over two seconds, directly into a vein or an IV line, using the most proximal line available.
- Inject as proximally as possible and follow with a rapid flush of Sodium chloride 0.9%
- See under 'Further information' overleaf re dose adjustments required if patient is on dipyridamole

## Subsequent doses

- If first dose of 3mg is ineffective within one to two minutes, a further 6mg dose should be given as a rapid IV bolus
- If the second dose is ineffective within one to two minutes, a further 12mg dose should be given as a rapid IV bolus
- Additional or higher doses are not recommended
- Patients who develop high-level AV block at a particular dose should not be given further dosage increments

## AdenoSCAN for Cardiac Angio only (use undiluted)

- Administer 140microgram/kg/minute for six minutes using an infusion pump (give the radionuclide into a separate venous site, after the first three minutes of the Adenoscan infusion)
- Care should be taken if the patient is currently receiving dipyridamole - see under 'further information' overleaf

| <b>Dose of 140mcg/kg/MINUTE using Adenoscan 30mg/10ml solution- rate in ml/HOUR</b> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Weight</b>   | 50  | 55  | 60  | 65  | 70  | 75  | 80  | 85  | 90  | 95  | 100 | 105 | 110 | 115 | 120 | 125 |
| <b>Rate (ml/HOUR)</b>   | 140 | 154 | 168 | 182 | 196 | 210 | 224 | 238 | 252 | 266 | 280 | 294 | 308 | 322 | 336 | 350 |

## Monitoring

- Heart rate and blood pressure should be monitored very closely
- Monitor respiratory rate
- For AdenoSCAN: to avoid an adenosine bolus effect, blood pressure should be measured in arm opposite infusion
- Continuous ECG monitoring is essential during adenosine administration
- Cardiorespiratory resuscitation equipment must be available for immediate use

## Further information

- Dipyridamole may markedly potentiate the action of adenosine, and therefore concomitant use should be avoided if possible
- If dipyridamole cannot be discontinued at least 24 hours before the adenosine (longer for Dipyridamole Slow Release formulations), the initial adenosine dose should be greatly reduced. (reduced about four-fold)(ref 1)
- Aminophylline, theophylline and other xanthines can inhibit the effect of adenosine and should be avoided for 24 hours prior to use of adenosine
- Food and drinks containing xanthines (tea, coffee, chocolate and cola) should be avoided for at least 12 hours prior to use of Adenosine.

## Storage

- Store below 25°C
- Do not refrigerate

## References

Adenocor SPC May 2015

Adenoscan UK SPC 11th August 2021

1. Stockley's Drug interactions - checked online 2nd December 2021

## Therapeutic classification

Drugs for arrhythmias

**BNF**

Arrhythmias