

## Who can administer

May be administered by registered competent doctor or nurse/midwife

## Important information

- To prevent **false measurements** of uric acid levels in samples during treatment with rasburicase, a strict sample handling procedure must be followed - see 'monitoring' requirements below
- GUH have moved to **STAT dosing as first-line prophylaxis in tumour lysis syndrome**, with repeated day dosing reserved for patient's with continued evidence of clinical or laboratory tumour lysis syndrome (ref 1)
- When rasburicase is being used for tumour lysis syndrome, the addition of allopurinol is unnecessary and has the potential to reduce the effectiveness of rasburicase (ref 2)

## Available preparations

Fasturtec 7.5mg vial

Fasturtec 1.5mg vial

## Reconstitution

Reconstitute vial using solvent supplied, to produce a solution containing 1.5mg/ml

1ml solvent provided per 1.5mg vial

5ml solvent provided per 7.5mg vial

- Mix by swirling very gently
- Do not shake
- Only a clear and colourless solution without particles should be used

### **Dilute further prior to administration**

## Infusion fluids

Sodium chloride 0.9%

## Methods of intravenous administration

### **Intermittent intravenous infusion (administer using an electronically controlled infusion device)**

- Add to infusion fluid to **make a final volume of 50ml** and administer over 30 minutes
- The residual volume in the infusion line must be flushed through at the same rate to avoid significant underdosing

## Dose in adults

**First line treatment: pre-chemotherapy**

- High risk patients: give 7.5mg IV STAT 4 to 24 hours prior to chemotherapy (unlicensed, ref 1)

### **Alternatively, if uric acid levels remain elevated or continued evidence of clinical or laboratory tumour lysis syndrome**

- Administer 0.2mg per kg every twenty-four hours, **commenced immediately prior to** and during the initiation of **chemotherapy**
- The **duration of treatment may be up to seven days** - the exact duration should be based upon adequate monitoring of uric acid levels in plasma and clinical judgement
- There are insufficient data to recommend multiple treatment courses

## Monitoring

- May cause severe hypersensitivity reactions including anaphylaxis
- If allergic reaction occurs, treatment should be immediately and permanently discontinued
- If it is necessary to monitor a patient's uric acid level, a strict sample-handling procedure must be followed to prevent **false readings of uric acid levels**. (Uric acid levels may appear artificially low as the drug continues to break down uric acid in the sample)
  - Blood must be collected into **pre-chilled tubes** containing heparin anticoagulant.
  - Samples must be **immersed in an ice/water bath**.
  - Plasma samples should immediately be prepared by centrifugation in a pre-cooled centrifuge (4°C)
  - Finally, plasma must be maintained in an ice/water bath and analysed for uric acid within 4 hours

## Further information

- Rasburicase should be infused through a different line to that used for chemotherapy agents to prevent drug incompatibility. If not possible, flush line well with Sodium chloride 0.9% between infusions
- Administration of rasburicase does not require any change in the timing/schedule of chemotherapy

## Storage

Store between 2 and 8°C

## References

SPC 12th Nov 2020

1. "[Prevention and Management of Tumour Lysis Syndrome](#)". eVIQ Cancer Treatments Online. ID 000108v2.0. 3 April, 2014. , Local expert advice has recommended that 7.5mg be given rather than 6mg.
2. Management of Tumour Lysis Syndrome in Adults and Children with Haematological Malignancies" BCSH(2015)

## Therapeutic classification

Drug used in the management of hyperuricaemia