

## 4 Platelet disorders

### 4.1 Essential thrombocythaemia

**Other drugs used for Essential thrombocythaemia**  
Hydroxycarbamide, p. 985

#### ANTITHROMBOTIC DRUGS > CYCLIC AMP PHOSPHODIESTERASE III INHIBITORS

### Anagrelide

28-May-2018

#### ● INDICATIONS AND DOSE

**Essential thrombocythaemia in patients at risk of thrombo-haemorrhagic events who have not responded adequately to other drugs or who cannot tolerate other drugs (initiated under specialist supervision)**

##### ► BY MOUTH

- **Adult:** Initially 500 micrograms twice daily, dose to be adjusted at weekly intervals according to response, increased in steps of 500 micrograms daily; usual dose 1–3 mg daily in divided doses (max. per dose 2.5 mg); maximum 10 mg per day

- **CAUTIONS** Cardiovascular disease—assess cardiac function before and regularly during treatment · concomitant use of drugs that prolong QT-interval—assess cardiac function before and regularly during treatment · risk factors for QT-interval prolongation—assess cardiac function before and regularly during treatment

- **INTERACTIONS** → Appendix 1: anagrelide

#### ● SIDE-EFFECTS

- **Common or very common** Anaemia · arrhythmias · asthenia · diarrhoea · dizziness · fluid retention · gastrointestinal discomfort · gastrointestinal disorders · headaches · nausea · palpitations · skin reactions · vomiting
- **Uncommon** Alopecia · appetite decreased · arthralgia · chest pain · chills · confusion · congestive heart failure · constipation · depression · dry mouth · dyspnoea · erectile dysfunction · fever · haemorrhage · hypertension · insomnia · malaise · memory loss · myalgia · nervousness · oedema · pain · pancreatitis · pancytopenia · pneumonia · pulmonary hypertension · respiratory disorders · sensation abnormal · syncope · thrombocytopenia · weight changes
- **Rare or very rare** Angina pectoris · cardiomegaly · cardiomyopathy · coordination abnormal · drowsiness · dysarthria · influenza like illness · myocardial infarction · nocturia · pericardial effusion · postural hypotension · renal failure · tinnitus · vasodilation · vision disorders
- **Frequency not known** Hepatitis · nephritis · tubulointerstitial

- **CONCEPTION AND CONTRACEPTION** Effective contraception required during treatment.

- **PREGNANCY** Manufacturer advises avoid (toxicity in animal studies).

- **BREAST FEEDING** Manufacturer advises avoid—present in milk in animal studies.

- **HEPATIC IMPAIRMENT** Manufacturer advises use with caution in mild impairment; avoid in moderate-to-severe impairment or if serum transaminases exceed 5 times the upper limit of normal.

- **RENAL IMPAIRMENT** Manufacturer advises avoid if eGFR less than 50 mL/minute/1.73 m<sup>2</sup>.

#### ● MONITORING REQUIREMENTS

- Monitor full blood count (monitor platelet count every 2 days for 1 week, then weekly until maintenance dose established).
- Monitor liver function.

- Monitor serum creatinine.
- Monitor urea.
- Monitor electrolytes (including potassium, magnesium and calcium) before and during treatment.

#### ● PATIENT AND CARER ADVICE

**Driving and skilled tasks** Dizziness may affect performance of skilled tasks (e.g. cycling, driving).

- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug.

#### **Capsule**

##### ► **Anagrelide (Non-proprietary)**

**Anagrelide (as Anagrelide hydrochloride)**

500 microgram Anagrelide 500microgram capsules |

100 capsule [POM] £404.57 DT = £402.87

##### ► **Xagrid (Shire Pharmaceuticals Ltd)**

**Anagrelide (as Anagrelide hydrochloride) 500 microgram** Xagrid

500microgram capsules | 100 capsule [POM] £404.57 DT = £402.87

## 4.2 Thrombocytopenias

### ANTIHAEMORRHAGICS > THROMBOPOIETIN RECEPTOR AGONISTS

#### Lusutrombopag

14-Jan-2020

- **DRUG ACTION** Lusutrombopag is a thrombopoietin receptor agonist that binds to and activates the thrombopoietin (TPO) receptor, thereby increasing platelet production.

#### ● INDICATIONS AND DOSE

**Thrombocytopenia [in patients with chronic liver disease undergoing invasive procedures] (under expert supervision)**

##### ► BY MOUTH

- **Adult:** 3 mg once daily for 7 days, treatment to be started at least 8 days before procedure; in clinical trials procedures were carried out between 9 to 14 days after starting lusutrombopag

- **CAUTIONS** Administration before laparotomy, thoracotomy, open-heart surgery, craniotomy, or excision of organs (no clinical experience) · body-weight less than 45kg (limited information available) · history of splenectomy (no clinical experience) · risk factors for thromboembolism

#### CAUTIONS, FURTHER INFORMATION

- **Body-weight less than 45kg** Monitor platelet count approximately 5 days after the first dose and as necessary thereafter; stop treatment if the platelet count reaches  $50 \times 10^9$ /litre or more and has increased  $20 \times 10^9$ /litre from baseline.
- **SIDE-EFFECTS**
- **Common or very common** Headache · nausea · rash
- **Frequency not known** Embolism and thrombosis
- **PREGNANCY** Manufacturer advises avoid—no information available.
- **BREAST FEEDING** Manufacturer advises avoid—present in milk in animal studies.
- **HEPATIC IMPAIRMENT** Manufacturer advises caution in severe impairment (limited information available)—monitor platelet count approximately 5 days after the first dose and as necessary thereafter. Stop treatment if the platelet count reaches  $50 \times 10^9$ /litre or more and has increased  $20 \times 10^9$ /litre from baseline.
- **MONITORING REQUIREMENTS** Manufacturer advises monitor platelet count prior to procedure; more frequent monitoring may be required in some patients—see *Cautions* and *Hepatic Impairment* for further information.