

## **Pemetrexed**

INDICATION: Locally advanced or metastatic NSCLC (predominantly non-squamous histology):

- maintenance treatment in patients whose disease has not progressed immediately following platinum based chemotherapy
- 2<sup>nd</sup> line treatment (**not** NICE approved)

## Prior to a course of chemotherapy

- Baseline bloods: FBC, U&E, LFT, Ca,
- Creatinine clearance
- Premedication with Folic Acid and Vit B12 as detailed below
- Written informed consent for course

## Prior to each cycle

- FBC, U&E, LFT, Ca
- Creatinine clearance > 45ml/min
- Monitor response to treatment as clinically indicated

Pemetrexed\* 500mg/m<sup>2</sup> In 100ml 039% sodium chloride

Repeated every 21 days for 4-6 cycles (2<sup>nd</sup> line treatment) or until disease progression (maintenance treatment)

 $^{\star}$  Folic acid 400 $\mu$ g orally daily beginning 1-2 weeks prior to the first dose of Pemetrexed, continuing 3 weeks after the last dose of Pemetrexed.

Vitamin B12 1000μg IM injection 1-2 weeks prior to the first dose of pemetrexed and repeated with every 3<sup>rd</sup> dose of pemetrexed until 3 weeks after the last dose of pemetrexed.

Dexamethasone 4mg BD should be taken the day before, the day of and the day after treatment.

NSAIDs and salicylates should be stopped 2 days before treatment and not restarted until 2 days after

- Naproxen and nabumetone should be stopped 5 days before treatment
- Piroxicam should be stopped 8 days before treatment

Dose modification for haematological toxicity

Neutrophils > 1.5 AND Platelets > 100
 Proceed with full dose

Neutrophils 1.0-1.5 Discuss with consultant

Neutrophils < 1.0 OR Platelets < 100 Defer 1 week or until recovery



Dose modification for neuropathy

• Grade 3+ Stop Pemetrexed

Dose modification for mucositis

Grade 3+ Wait until recovery, then restart at 50% Pemetrexed,

Dose modification for other toxicities

Any other grade 3+ Stop until recovery, then restart at 75% of

Pemetrexed

If any grade 3-4 toxicities recur after 2 dose modifications stop treatment

**Expected toxicities:** 

Myelosuppression Nausea & vomiting (mild)

Diarrhoea or constipation Peripheral neuropathy

Mucositis

This protocol has been reviewed by the Lancashire & South Cumbria Lung Oncology Consultants' Group and responsibility for the protocol lies with the Head of Service.

Date: February 2019 Next review: February 2021