LSCCN HAEMATOLOGY PROTOCOLS

LENALIDOMIDE AND DEXAMETHASONE

INDICATION: Relapsed multiple myeloma

This protocol must be used in conjunction with the Celgene Pregnancy Prevention Programme

Prior to a course of treatment

- Patient must be counselled about the risk of birth defects with foetal exposure. See Celgene Pregnancy Prevention Programme. Prescription must be accompanied by a completed prescription authorisation form.
- Note that lenalidomide is contraindicated if there is a history of hypersensitivity or desquamating rash with thalidomide.
- Note whether lenalidomide causes infertility is unknown offer semen cryopreservation to males.
- Assess for neuropathy do not use lenalidomide if there is grade 3 neuropathy (sensory loss or paraesthesiae interfering with activities of daily living or causing disability) or higher
- Check FBC neutrophils must be > 1.0, platelets >75 unless due to marrow infiltration
- Check U&Es, creat, LFTs, thyroid function tests see dose modifications
- Written consent for course

Day 15 of the first 2 cycles

- Check FBC see dose modifications
- Assess for neuropathy see dose modifications

Prior to each cycle

- Medical review of fitness for chemotherapy exclude active infection, major changes in organ function.
- Review necessary measures in the lenalidomide risk management programme.
- Assess for neuropathy see dose modifications
- Check FBC, U&Es, creat, LFTs see dose modifications
- Each prescription must be accompanied by a completed prescription authorisation form.

Lenalidomide * 25mg od PO for 21 days

Dexamethasone 20-40mg od PO days 1-4, 9-12 and 17-20 with cycles 1-4,

Days 1-4 from cycle 5 onwards

Dose of dexamethasone and number of pulses may be modified according to

age, performance status, tolerance and duration of treatment

No more than 28 days to be dispensed * tablets are 5mg, 10mg, 15mg and 25mg

Repeat cycle every 28 days

Continue treatment until there is disease progression

Prophylaxis for emesis Not required

Other medications Ranitidine 150mg bd throughout

Antimicrobial prophylaxis as per local policy Anti-thrombotic prophylaxis as per local policy

LSCCN HAEMATOLOGY PROTOCOLS

Lenalidomide dose reduction steps

Starting dose 25mg od every 21 days

Dose level 1 15mg od for 21 days

Dose level 2 10mg od for 21 days

Dose level 3 5mg od for 21 days

Dose modification for neutropenia (unless due to marrow infiltration)

• First fall to < 0.5 Stop lenalidomide

Return to > 0.5 when neutropenia is only toxicity

Resume lenalidomide

• Return to >0.5 when other dose-dependent

For each drop to < 0.5

haematological toxicity present

Return to > 0.5

 Resume lenalidomide at next lower dose level. Do not

dose below 5mg od

Stop lenalidomide

Dose modification for thrombocytopenia (unless due to marrow infiltration)

First fall to < 30
 Stop lenalidomide

Return to > 30
 Resume lenalidomide at dose level 1

For each subsequent drop below 30
 Stop lenalidomide

• Return to > 30 Resume lenalidomide at next lower dose level. Do not

dose below 5mg od

Dose modification for neuropathy

 Grade 2 (sensory loss or paraesthesiae interfering with function but not activities of daily living)

dally living)

 Grade 3 or 4 toxicity (sensory loss or paraesthesiae interfering with activities of daily living or causing disability) Stop lenalidomide and review weekly

Resume lenalidomide at dose level 1

When toxicity resolves to grade 1 or less restart at

next lower dose level

Stop lenalidomide permanently

Dose modification impaired renal function

<u>Creatinine clearance</u> <u>Lenalidomide dose</u>

> 50ml/min 25mg daily 30 – 49ml.min 10mg daily *

<30ml/min, not requiring dialysis 15mg every other day

<30ml/min, requiring dialysis 15mg three times a week after each dialysis

* if no response to 10mg daily after two cycles then consider increasing to 15mg daily

Dose modification for liver dysfunction

• Limited data - clinical decision

LSCCN HAEMATOLOGY PROTOCOLS

Lenalidomide Toxicities

Febrile neutropenia and thrombocytopenia Nausea and vomiting

Venous thromboembolism Fatigue

Rash – desquamating or erythema multiforme; often resolves with continued treatment

Arthralgia, myalgia, muscle weakness

Constipation Peripheral neuropathy

Dizziness/sinus bradycardia/atrial fibrillation/cardiac

arrythmias

Hypothyroidism

Teratogenicity Somnolence

Digoxin toxicity

Written by Dr MP Macheta, Consultant Haematologist

Date July 2013

Review date July 2015