

Chemotherapy Protocol

SARCOMA

Gastro-Intestinal Stromal Tumour (GIST)

Sunitinib

Regimen

• GIST-Sunitinib

Indication

- Sunitinib is recommended as a possible treatment for people with unresectable or metastatic malignant gastrointestinal stromal tumours if they have already tried imatinib treatment but it has not worked or was not suitable
- WHO Performance status 0, 1, 2

Toxicity

Drug	Adverse Effect
Sunitinib	Cardiac failure, hypertension, hypothyroidism, fatigue, skin/hair colour changes, palmar-plantar erythrodysaesthesia, diarrhoea, taste disturbances, oedema, epistaxis, mucositis

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.

Monitoring

Drugs

- FBCs, LFTs and U&Es prior to each cycle for the first three cycles, this may reduce to every other cycle if stable
- Blood pressure weekly for the first 4 weeks then every 6 12 weeks
- Thyroid function tests at baseline then every 3 months.
- Ensure adequate cardiac function before starting therapy. Baseline LVEF should be measured in patients with a history of cardiac problems or in the elderly. Repeat every three to six months as clinically indicated.

Dose Modifications

The dose modifications listed are for haematological, liver and renal function and drug specific toxicities only. Dose adjustments may be necessary for other toxicities as well.

Please discuss all dose reductions / delays with the relevant consultant before prescribing, if appropriate. The approach may be different depending on the clinical circumstances.



Haematological

Dose modifications for haematological toxicity in the table below are for general guidance only. Always refer to the responsible consultant as any dose reductions or delays will be dependent on clinical circumstances and treatment intent.

Consider blood transfusion or growth factors in accordance with NICE TA 323 if the patient is symptomatic of anaemia or has a haemoglobin of less than 8g/dL.

For sunitinib dose modifications should occur in 12.5mg steps and are applied based on individual safety and tolerability. Daily dose should not be decreased below 25mg.

Neutrophils (x10 ⁹ /L)	Dose Modifications		
1 or greater	100%		
less than 1	Delay until recovery to 1x10 ⁹ /L or greater. If recovery occurs within 7 days then continue with the last dose dose. If the recovery takes longer than 7 days then reduce dose by 12.5mg.		
Platelets (x10 ⁹ /L)	Dana Madistrasi		
i latelets (XIV/L)	Dose Modifications		
75 or greater	100%		

Hepatic Impairment

Drug	Child Pugh Class	Dose
	Α	50mg daily
Sunitinib	В	50mg daily
	С	No information

There is no information on dosing in patients with an AST or ALT greater than 2.5xULN (or more than 5xULN with liver metastases) as these patients were excluded from clinical trials.

Renal Impairment

Drug	Creatinine Clearance (ml/min)	Dose (% of original dose)	
Sunitinib	N/A	No dose modification required	

Other

Dose reductions or interruptions in therapy are not necessary for those toxicities that are considered unlikely to be serious or life threatening. For example, alopecia, altered taste or nail changes.



Cardiovascular

Hypertension should be treated initially as per the NICE guidelines⁽¹⁾. For persistently high blood pressure of more than 140/90mmHg despite standard hypertensive therapy, reduce the sunitinib dose in 12.5mg steps and continue to monitor. If hypertension persists discontinue the sunitinib.

Gastro-intestinal

Diarrhoea is a frequent complication of sunitinib therapy. Patients should be advised to limit consumption of high fibre or spicy foods, caffeine, alcohol and dairy products. Laxatives should be avoided. For a NCI-CTC grade 1 or 2 diarrhoea continue treatment at the same dose and attempt dietary and dehydration management. Anti-diarrhoeal medicines, such as loperamide, may be necessary. For a NCI-CTC grade 3 adverse reaction reduce the dose by 12.5mg. For a NCI-CTC grade 4 adverse reaction stop the sunitinib until it resolves to at least NCI-CTC grade 2. Treatment may be re-started with a 12.5mg dose reduction in the first instance.

Endocrine

Hypothyroidism can occur and should be managed according to standard medical practice. There is no need to discontinue or dose reduce the sunitinib.

Skin

Palmar-plantar erythrodysaesthesia can occur. Patients should be advised to apply moisturiser to their hands and feet regularly throughout treatment, and to minimise activities that put pressure on feet or hands. Refer to a chiropodist if appropriate.

A NCI-CTC grade 1 reaction should be treated symptomatically. There is no need to interrupt therapy with sunitinib or reduce the dose. For a NCI-CTC grade 2 effect delay treatment with sunitinib until it resolves to at least NCI-CTC grade 1. The sunitinib may be re-started with a 12.5mg dose reduction. The development of palmar-plantar erythrodysaesthesia at NCI-CTC grade 3 should result in treatment being delayed until it resolves to NCI-CTC grade 1. The sunitinib can be re-started with a 12.5 – 25mg dose reduction.

Regimen

42 day cycle until disease progression or intolerance (12 cycles will be set in Aria)

Drug	Dose	Days	Administration
Sunitinib	50mg once a day	1-28 (inclusive)	Oral

Dose Information

• Sunitinib is available as 12.5mg, 25mg, 37.5mg and 50mg capsules

Additional Information

• The National Patient Safety Alert on oral chemotherapy (NPSA/2008/RRR001) must be followed in relation to sunitinib.



- It must be made clear to all staff, including those in the community, that sunitinib should only be prescribed under the supervision of an oncologist/haematologist.
- Sunitinib interacts with many other agents. Always check for drug interactions.

Coding

- Procurement X71.5
- Delivery X73.1

References
1. Reichardt P, Kang YK, Ratkowski P et al. Clinical outcomes of patients with advanced gastro-intestinal stromal tumours: safety and efficacy in a world wide treatment use trial of sunitinib. Cancer 2015; 121 (9): 1403-1413.



REGIMEN SUMMARY

Sunitinib

Day 1-28

1. Sunitinib 50mg once a day oral



DOCUMENT CONTROL

Version	Date	Amendment	Written By	Approved By
1	November 2015	None	Dr Deborah Wright Pharmacist	Dr Nicola Keay Consultant Medical Oncologist

This chemotherapy protocol has been developed as part of the chemotherapy electronic prescribing project. This was and remains a collaborative project that originated from the former CSCCN. These documents have been approved on behalf of the following Trusts;

Hampshire Hospitals NHS Foundation Trust NHS Isle of Wight Portsmouth Hospitals NHS Trust Salisbury NHS Foundation Trust University Hospital Southampton NHS Foundation Trust Western Sussex Hospitals NHS Trust

All actions have been taken to ensure these protocols are correct. However, it remains the responsibility of the prescriber to ensure the correct drugs and doses are prescribed for patients.