Sunitinib

Indication

First line treatment of patients with advanced and/or metastatic renal cell carcinoma

Advanced/Inoperable gastrointestinal tumour after failure of first line treatment or intolerance

Regimen details

Sunitinib 50mg once daily for 4 weeks

Cycle frequency

Every six weeks (i.e. "Four weeks on, two weeks off")

Number of cycles

Until disease progression

Administration

If a dose is missed or the patient vomits after taking their dose, the patient should not be given an additional dose. The patient should take the usual prescribed dose on the following day.

Pre-medication

None

Emetogenicity

No routine antiemetics required

Additional supportive medication

Nil

Extravasation

N/A

Investigations – pre first cycle

Investigation	Validity period
FBC	14 days
U+E (including creatinine)	14 days
LFT (including AST)	14 days
TFTs	14 days
Blood pressure	14 days
Urinalysis for proteinuria	14 days

ECG if patient has significant cardiac history

Blood pressure must be well controlled before initiating treatment with sunitinib

The use of vascular endothelial growth factor (VEGF) pathway inhibitors in patients with or without hypertension may promote the formation of aneurysms and/or artery dissections. Before initiating sunitinib, this risk should be carefully considered in patients with risk factors such as hypertension or history of aneurysm

Temporary interruption of sunitinib therapy is recommended for precautionary reasons in patients undergoing major

Lancashire & South Cumbria Cancer Network Systemic Anticancer Treatment Protocol surgical procedures. There is limited clinical experience regarding the timing of reinitiation of therapy following major surgical intervention. Therefore, the decision to resume sunitinib therapy following a major surgical intervention should be based upon clinical judgment of recovery from surgery

Investigations -pre subsequent cycles

FBC, U+E (including creatinine), LFT (including AST)
TFTs every 12 weeks
Blood pressure weekly for the first cycle then prior to each cycle
ECG if clinically indicated

Standard limits for administration to go ahead

If blood results not within range, authorisation to administer **must** be given by prescriber/ consultant.

Investigation	Limit
Neutrophil count	$\geq 1.0 \times 10^9 / L$
Platelet count	$\geq 50 \times 10^9 / L$
Creatinine clearance	≥ 30 mL/min
AST/ALT	≤ 1.5 x ULN (or <5 x ULN if liver metastases)

Dose modifications

Haematological toxicity

Toxicity	Definition	Dose adjustment
Neutropenia	Neutrophils 0.5-0.9 x 10 ⁹ /L	Delay until ≥ 1.0 x 10 ⁹ /L then continue at
		same dose (repeated occurrence –
		consider reducing dose by 12.5mg)
	Neutrophils < 10 x 10 ⁹ /L	Delay until ≥ 50 x 10 ⁹ /L then reduce dose
		by 12.5mg
Thrombocytopenia	Platelets 10-49 x 10 ⁹ /L	Delay until ≥ 50 x 10 ⁹ /L then continue at
		same dose (repeated occurrence –
		consider reducing dose by 12.5mg)
	Platelets < 10 x 10 ⁹ /L	Delay until ≥ 50 x 10 ⁹ /L then reduce dose
		by 12.5mg

Renal impairment

CrCl (ml/min)	Sunitinib dose
≥ 30	100%
< 30	No experience of use in patients with CrCl < 30ml/min – discuss
	with consultant and use with caution

Hepatic impairment

No starting dose adjustment is recommended when administering sunitinib to patients with mild or moderate (Child-Pugh class A and B) hepatic impairment. Sunitinib has not been studied in subjects with severe (Child-Pugh class C) hepatic impairment and therefore its use in patients with severe hepatic impairment cannot be recommended

Hypertension

Initiate standard antihypertensive medication

In the event of resistant hypertension, reduce dose of sunitinib in 12.5mg steps and continue to monitor. If persists discontinue treatment

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Other toxicities

Withhold unit resolved and reduce dose by 12.5mg Also consider "two weeks on, one week off" schedule

Adverse effects -

for full details consult product literature/ reference texts

Serious side effects

Myelosuppression Cardiotoxicity

QT interval prolongation

Thyroid dysfunction

Proteinuria, nephrotic syndrome

Pancreatitis

Arterial thrombotic events

Haemorrhage

Impaired wound healing

Frequently occurring side effects

Diarrhoea, constipation
Nausea and vomiting
Stomatitis and mucositis
PPE

Myelosuppression Epistaxis

Lhistavis Himortono:

Hypertension

• Other side effects

Skin and hair changes Taste disturbances Anorexia Fatigue Headache

Significant drug interactions

- for full details consult product literature/ reference texts

<u>CYP3A4 inhibitors (e.g. ketoconazole, voriconazole, clarithromycin, ritonavir)</u>: avoid co-administration these may increase plasma concentrations of sunitinib.

Grapefruit and grapefruit juice: avoid as an inhibitor of CYP3A4 and may increase plasma concentrations of sunitinib.

<u>Inducers of CYP3A4 (e.g. rifampicin, phenytoin, carbamazepine, St John's Wort)</u>: avoid co-administration as these may reduce exposure to sunitinib. If this is unavoidable, the dose of sunitinib may need to be increased in 12.5mg steps (up to 87.5mg) based on careful monitoring of tolerability

<u>Coumarin anticoagulants, e.g. Warfarin:</u> Avoid if possible as may cause elevation and fluctuation in INR. Consider switching to low molecular weight heparin

Additional comments

Patients should be advised that depigmentation of the hair or skin may occur during treatment with sunitinib

References

Sutent SPC - https://www.medicines.org.uk/emc/product/7966/smpc

South West Clinical Network Cancer Protocols - http://www.swscn.org.uk/guidance-protocols/cancer-protocols/

Lancashire & South Cumbria Cancer Network Systemic Anticancer Treatment Protocol

THIS PROTOCOL HAS BEEN DIRECTED BY <u>DR PARIKH</u>, DESIGNATED LEAD CLINICIAN FOR KIDNEY CANCER

RESPONSIBILITY FOR THIS PROTOCOL LIES WITH THE HEAD OF SERVICE

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