



PAZOPanib Therapy

INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	Reimbursement Status
First line treatment of advanced Renal Cell Carcinoma (RCC) in adults and for patients who have received prior cytokine therapy for advanced disease.	C64	00445a	CDS
Treatment of adult patients with selective subtypes of advanced Soft Tissue Sarcoma (STS) who have received prior chemotherapy for metastatic disease or who have progressed within 12 months after (neo) adjuvant therapy.	C49	00445b	CDS

TREATMENT:

The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.

PAZOPanib is taken once daily until disease progression or unacceptable toxicity develops (1 cycle=4weeks).

Drug	Dose	Route	Cycle
PAZOPanib	800mg once daily	РО	Continuous
PAZOPanib is available as 200mg and 400mg film-coated tablets These should be taken whole with water and not broken or crushed			
Take without food at least one hour before or two hours after a meal			

ELIGIBILITY:

- Indications as above
- ECOG 0-2

EXCLUSIONS:

- Hypersensitivity to PAZOPanib or to any of the excipients
- Severe hepatic impairment (bilirubin > 3 x ULN)

PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Medical Oncologist.

NCCP Regimen: PAZOPanib Monotherapy	Published: 23/10/2017 Review: 09/09/2026	Version number: 3
Tumour Group: Genitourinary/Sarcoma NCCP Regimen Code: 00445	ISMO Contributor: ProfMaccon Keane	Page 1 of 5

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibly of the prescribing clinician. and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer





TESTS:

Baseline tests:

- FBC, renal and liver profile
- Blood pressure
- ECG
- MUGA/ECHO if clinically indicated
- Thyroid Function

Regular tests:

- LFTs at weeks 3, 5, 7 and 9 and then at months 3 and 4, with additional tests as clinically indicated. Periodic testing should then continue after month 4.
- FBC and renal profile monthly
- Blood pressure weekly for first 4 weeks and then monthly or as clinically indicated
- Thyroid function tests every 12 weeks
- Cardiac function as clinically indicated
- Pulmonary function as clinically indicated

Disease monitoring:

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

DOSE MODIFICATIONS:

- Any dose modification should be discussed with a Consultant.
- Dose modification should be in 200mg decrements or increments in a stepwise fashion based on individual tolerability in order to manage adverse reactions.
- The dose of PAZOPanib should not exceed 800mg.

Hae matological:

Table 1: Dose modification of PAZOPanib for haematological toxicity

ANC (x10 ⁹ /L)		Platelets (x10 ⁹ /L)	Dose
≥1	and	≥ 75	100%
<1	or	<75	Delay

NCCP Regimen: PAZOPanib Monotherapy	Published: 23/10/2017 Review: 09/09/2026	Version number: 3
Tumour Group: Genitourinary/Sarcoma NCCP Regimen Code: 00445	ISMO Contributor: ProfMaccon Keane	Page 2 of 5

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibly of the prescribing clinician. and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer





Renal and Hepatic Impairment:

Table 2: Dose modification of PAZOPanib in renal and hepatic impairment

Renal Impairment		Hepatic Impair	Hepatic Impairment	
Cr Cl (ml/min)	Dose	Bilirubin	Dose	
≥30	100%	≤ 1.5 x ULN	800mg and monitor LFTs closely	
<30	Caution is a dvised as there is no experience of PAZOPanibin this	1.5-3 x ULN	200mg and monitor LFTs closely	
	patient population.	>3 x ULN	Contra-indicated	

Management of adverse events:

Table 3: Dose Modification of PAZOPanib for Non-Haematological Toxicity

CTC-Grade	Dose	
1-2	100%	
3-4	Delay until less than or equal to grade 1	
	Dose reduce by 1 dose level	

Table 4: Dose modifications for PAZOPanib induced hepatotoxicity

Liver test values	Dose modification
Transaminase el evation between 3 and 8 x ULN	Continue on PAZOPanib with weekly monitoring of liver function
	until transaminases return to Grade 1 or baseline.
Transaminase el evation of >8 x ULN	 Interrupt PAZOPanib until transaminases return to Grade 1 or baseline. If the potential benefit for reinitiating PAZOPanib treatment is considered to outweigh the risk for hepatotoxicity, then reintroduce PAZOPanib at a reduced dose of 400mg daily and measure serum liver tests weekly for 8 weeks. Following reintroduction of PAZOPanib, if transaminase el evations > 3 x ULN recur, then PAZOPanib should be permanently discontinued.
Transaminase el evations >3 x ULN concurrently with bilirubin el evations >2 x ULN	Permanently discontinue PAZOPanib. Patients should be monitored until return to Grade 1 or baseline. PAZOPanibis a UGT1A1 inhibitor. Mild, indirect (unconjugated) hyperbilirubinaemia may occur in patients with Gilbert's syndrome. Patients with only a mild indirect hyperbilirubinaemia, known or suspected Gilbert's syndrome, and el evation in ALT > 3 x ULN should be managed as per the recommendations outlined for isolated ALT elevations.

NCCP Regimen: PAZOPanib Monotherapy	Published: 23/10/2017 Review: 09/09/2026	Version number: 3
Tumour Group: Genitourinary/Sarcoma NCCP Regimen Code: 00445	ISMO Contributor: ProfMaccon Keane	Page 3 of 5

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibly of the prescribing clinician. and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer





SUPPORTIVE CARE:

EMETOGENIC POTENTIAL: Minimal - Low (Refer to local policy).

PREMEDICATIONS: Not usually required

OTHER SUPPORTIVE CARE: No specific recommendations

ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS:

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

- **Hepatic effects**: Cases of hepatic failure (including fatalities) have been reported during use of PAZOPanib. Administration of PAZOPanib to patients with mild or moderate hepatic impairment should be undertaken with caution and close monitoring. PAZOPanib is not recommended in patients with severe hepatic impairment (total bilirubin > 3 x ULN regardless of any level of ALT) Exposure at a 200mg dose is markedly reduced, though highly variable, in these patients with values considered insufficient to obtain a clinically relevant effect. In clinical studies with PAZOPanib, increase in serum transaminases (ALT, aspartate aminotransferase [AST]) and bilirubin were observed). In the majority of the cases, isolated increases in ALT and AST have been reported, without concomitant elevations of alkaline phosphatase or bilirubin. Patients over 60 years of age may be at greater risk for mild (>3xULN) to severe (>8xULN) elevation of ALT. Patients who carry the HLA-B*57:01 allele have an increased risk of PAZOPanib-associated ALT elevations. Liver function should be monitored in all subjects receiving PAZOPanib, regardless of genotype or age (see Regular Tests).
- **Hypertension**: Patients with hypertension should exercise caution while on PAZOPanib. Blood pressure should be well controlled prior to initiating treatment. Treatment with PAZOPanib should be discontinued if there is evidence of hypertensive crisis or if hypertension is severe and persists despite anti-hypertensive therapy and PAZOPanib dose reduction.
- Cardiotoxicity: The risks and benefits of PAZOPanib should be considered before beginning therapy in patients who have pre-existing cardiac dysfunction. The safety and pharmacokinetics of PAZOPanib in patients with moderate to severe heart failure or those with a below normal LVEF has not been studied. Patients should be carefully monitored for clinical signs or symptoms of congestive heart failure. Baseline and periodic evaluation of LVEF is recommended in patients at risk of cardiac dysfunction. QT prolongation and Torsades de Pointes have also been reported. PAZOPanib should be used with caution in patients with any relevant cardiac history, or those taking anti-arrhythmics or other medicines that may prolong the QT interval. Ensure electrolytes are maintained within normal range. When using PAZOPanib, base line and periodic monitoring of electrocardiograms and maintenance of electrolytes (e.g. calcium, magnesium, potassium) within normal range is recommended.
- Muscle pain: Myalgias and muscle spasms can occur in patients treated with PAZOPanib
- **Hypothyroidism:** Thyroid dysfunction, in particular hypothyroidism, may occur with this treatment. Patients with hypothyroidism should be treated as per standard medical practice prior to the start of PAZOPanib treatment. Monitor for signs and symptoms of thyroid dysfunction and manage as clinically appropriate.

NCCP Regimen: PAZOPanib Monotherapy	Published: 23/10/2017 Review: 09/09/2026	Version number: 3
Tumour Group: Genitourinary/Sarcoma NCCP Regimen Code: 00445	ISMO Contributor: ProfMaccon Keane	Page 4 of 5

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibly of the prescribing clinician. and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer





• Interstitial Lung Disease (ILD)/Pneumonitis: ILD, which can be fatal, has been reported in association with PAZOPanib Monitor patients for pulmonary symptoms indicative of ILD/pneumonitis and discontinue PAZOPanib in patients developing ILD or pneumonitis.

DRUG INTERACTIONS:

- Concomitant treatment with strong inhibitors of CYP3A4, P-glycoprotein (P-gp) or breast cancer resistance protein (BCRP) should be avoided due to risk of increased exposure to PAZOPanib. Selection of alternative concomitant medicinal products with no or minimal potential to inhibit CYP3A4, P-gp or BCRP should be considered.
- Concomitant treatment with inducers of CYP3A4 should be avoided due to risk of decreased exposure to PAZOPanib.
- Concomitant administration of PAZOPanib with uridine diphosphate glucuronosyl transferase 1A1 (UGT1A1) substrates (e.g. irinotecan) should be undertaken with caution since PAZOPanib is an inhibitor of UGT1A1.
- Current drug interaction databases should be consulted for more information.

REFERENCES:

- 1. Sternberg CN, Davis ID, Mardiak J et al. PAZOPanib in locally advanced or metastatic renal cell carcinoma: results of a randomized phase III trial. J Clin Oncol 2010;28:1061-1068.
- 2. van der Graaf WT, Blay JY et al. PAZOPanib for metastatic soft-tissue sarcoma (PALETTE): a randomised, double-blind, placebo-controlled phase 3 trial. Lancet. 2012;379(9829):1879.
- NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting. V3 2021. Available at: https://www.hse.ie/eng/services/list/5/cancer/profinfo/chemoprotocols/nccp-classification-document-for-systemic-anti-cancer-therapy-sact-induced-nausea-and-vomiting.pdf
- 4. PAZOPanib (Votrient®) Summary of Product Characteristics. Last updated: 28/07/2021. Accessed Sept 2021. Available at: https://www.ema.europa.eu/en/documents/product-information/votrient-epar-product-information_en.pdf

Version	Date	Amendment	Approved By
1	23/10/2017		Prof Maccon Keane
2	23/10/2019	Reviewed. Update of emetogenic potential	Prof Maccon Keane
3	09/09/2021	Reviewed. Amended Adverse Effects (hypothyroidism)	Prof Maccon Keane

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

NCCP Regimen: PAZOPanib Monotherapy	Published: 23/10/2017 Review: 09/09/2026	Version number: 3
Tumour Group: Genitourinary/Sarcoma NCCP Regimen Code: 00445	ISMO Contributor: ProfMaccon Keane	Page 5 of 5

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibly of the prescribing clinician. and is subject to HSE's terms of use available at http://www.hse.ie/eng/Disclaimer