Trametinib (Gynae)

Indication

Low grade serous ovarian or peritoneal cancer that has recurred or progressed following at least one platinum-based chemotherapy regimen.

(NHSE CCP: URN2262)

ICD-10 codes

Codes with a prefix C56 and C48

Regimen details

| Day | Drug | Dose | Route |
|------|------------|--------|-------|
| 1-28 | Trametinib | 2mg OD | PO |

Cycle frequency

As above

Number of cycles

Continuous until disease progression or unacceptable toxicity.

Administration

Trametinib is available as 0.5mg and 2mg tablets.

Trametinib should be taken once a day, at the same time each day, at least one hour before or two hours after a meal. The tablets should be swallowed whole with a full glass of water.

If a dose is missed it should be taken if it is more than 12 hours until the next dose is due.

Pre-medication

Nil

Emetogenicity

This regimen has mild emetic potential.

Additional supportive medication

Emollients if required.

Antiemetics if required.

Extravasation

N/A

Investigations - pre first cycle

| Investigation | Validity period (or as per local policy) |
|----------------------------|--|
| FBC | 14 days |
| U+E (including creatinine) | 14 days |
| LFTs | 14 days |
| Magnesium | 14 days |
| Calcium | 14 days |
| Blood pressure | Baseline |

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Investigations – pre subsequent cycles

Patients should be reviewed every 4 weeks for the first 6 months.

| Investigation | Validity period (or as per local policy) |
|----------------------------|---|
| FBC | 96 hours |
| U+E (including creatinine) | 7 days |
| LFTs | 7 days |
| Blood pressure | Monthly |
| Echocardiogram | At baseline, after the first month, then approximately 3-4 monthly. |

Standard limits for administration to go ahead

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

| Investigation | Limit |
|-----------------------------|----------------------------|
| Neutrophils | $\geq 1.0 \times 10^9 / L$ |
| Platelets | ≥ 100 x 10 ⁹ /L |
| Creatinine clearance (CrCl) | ≥ 30ml/min |
| Bilirubin | ≤ 1.5 x ULN |
| LVEF | > LLN for institution |

Dose modifications

Dose modifications should be made as per the table below:

| Dose level | Trametinib dose |
|------------------|--|
| Full dose | 2mg OD |
| First reduction | 1.5mg OD |
| Second reduction | 1mg OD |
| Third reduction | Discontinue if unable to tolerate 1mg OD |

Dose reductions beyond these levels are not recommended.

Haematological toxicity

If neutrophils $< 1.0 \times 10^9/L$ or platelets $< 100 \times 10^9/L$ discuss with consultant.

Renal impairment

| Creatinine clearance | Trametinib dose | |
|----------------------|--|--|
| ≥30mL/min | No dose adjustment needed | |
| <30mL/min | No need for dose adjustment expected, use with caution | |

• Hepatic impairment

| Bilirubin | Trametinib dose |
|---------------|--------------------------------|
| <1.5 x ULN | No dose adjustment required |
| 1.5 - 3 x ULN | Consider reduction to 50% dose |
| > 3 x ULN | Not recommended |

Other toxicities

Hypertension:

Hypertension should be controlled with standard antihypertensives.

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Reduction in LVEF:

If LVEF decreases by > 10% from baseline or is below LLN for the institution, trametinib should be withheld. Consider review/optimisation of cardiac medication. If LVEF recovers trametinib may be restarted with one dose level reduction and close monitoring.

If grade 3-4 left ventricular cardiac dysfunction or if LVEF does not recover trametinib should be permanently discontinued.

Ocular toxicity:

Patients should be encouraged to report visual disturbances and ophthalmological assessment is recommended if symptoms reported.

Retinal pigment epithelial detachment:

Grade 1: continue and monitor monthly until resolved.

Grade 2-3: withhold trametinib for up to 3 weeks. If resolves to \leq grade 1 restart at reduce by one dose level, if not permanently discontinue.

<u>Retinal vein occlusion:</u> Permanently discontinue trametinib.

Pneumonitis:

Trametinib should be withheld if pneumonitis is suspected and must be permanently discontinued if treatment-related pneumonitis is diagnosed.

Any other toxicities:

| Toxicity grade | Dose modification |
|----------------------------------|---|
| Grade 1 or 2 (tolerable) | Continue treatment and monitor |
| Grade 2 (intolerable) or Grade 3 | Interrupt treatment until ≤ Grade 1. Resume at next dose reduction level. |
| Grade 4 | Discontinue permanently or interrupt treatment until ≤ Grade 1. Resume |
| | with dose reduction of one level. |

Adverse effects - for full details consult product literature/ reference texts

Serious side effects

Bradycardia

Pancreatitis

Hypersensitivity reactions

Ophthalmic reactions

Myelosuppression

Rhabdomyolysis

Colitis

Frequently occurring side effects

Pyrexia

Fatigue

Cough

Arthralgia, myalgia

Rash, pruritus

Nausea and vomiting

Stomatitis

Diarrhoea, constipation

Alopecia

Raised LFTs

Hypertension

Peripheral oedema

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Significant drug interactions – for full details consult product literature/ reference texts

Coumarin anticoagulants (e.g. warfarin): avoid.

As trametinib is metabolised predominantly via deacetylation mediated by hydrolytic enzymes (e.g. carboxylesterases), its pharmacokinetics are unlikely to be affected by other agents through metabolic interactions. Drugdrug interactions via these hydrolytic enzymes cannot be ruled out and could influence the exposure to trametinib.

Strong P-gp inhibitors (e.g. verapamil, cyclosporine, ritonavir, quinidine, itraconazole): caution is advised when coadministering trametininb; strong inhibition of hepatic P-gp may result in increased levels of trametinib.

BCRP substrates (e.g. pitavastatin): staggered dosing (2 hours apart) of these agents and trametinib due to risk of transient inhibition of BCRP substrates.

Additional comments

Women of childbearing potential must be advised to use adequate contraception throughout treatment and for 16 weeks after stopping treatment.

References

- Gershenson D. M. et al. A randomized phase II/III study to assess the efficacy of trametinib in patients with recurrent or progressive low-grade serous ovarian or peritoneal cancer. Ann Oncol. 2019; 30 (Suppl 5):897-898
- Krens S D, Lassche, Jansman G F G A, et al. Dose recommendations for anticancer drugs in patients with renal or hepatic impairment. *Lancet Oncol* 2019; 20: e201–08.
- NHS England. Interim treatment options during the COVID-19 pandemic (NICE Guideline 161). Accessed 17 June 2023 via www.nice.org.uk
- Summary of Product Characteristics Trametinib (GSK) accessed 17 June 2023 via www.medicines.org.uk

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