

## Tepotinib Therapy

### INDICATIONS FOR USE:

| INDICATION  | ICD10 | Regimen Code | HSE approved reimbursement status* |
|---|-------|--------------|------------------------------------|
| As monotherapy for the treatment of adult patients with advanced non-small cell lung cancer (NSCLC) harbouring alterations leading to mesenchymal-epithelial transition factor gene exon 14 (METex14) skipping, who require systemic therapy following prior treatment with immunotherapy and/or platinum-based chemotherapy. | C34   | 00823a       | ODMS<br>01/08/2024                 |

\* This is for post 2012 indications only.

### 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.*

Tepotinib is administered orally once daily and should continue as long as clinical benefit is observed.

| Drug  | Dose        | Route        | Cycle      |
|---|-------------|--------------|------------|
| Tepotinib   | 450mg daily | PO with food | Continuous |
| The tablets should be taken with food and should be swallowed whole to ensure that the full dose is administered.             |             |              |            |
| If a daily dose is missed, it can be taken as soon as remembered on the same day, unless the next dose is due within 8 hours. |             |              |            |

### ELIGIBILITY:

- Indication as above
- ≥18 years
- ECOG 0-2
- METex14 skipping mutation as confirmed by validated test method
- No EGFR activating mutation or ALK rearrangement

### EXCLUSIONS:

- Hypersensitivity to tepotinib or any of the excipients
- Active CNS metastases
- Pregnancy
- Breast feeding

### PRESCRIPTIVE AUTHORITY:

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

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## TESTS:

### Baseline tests:

- FBC, electrolytes, renal and liver profile
- ECG as clinically indicated
- Pregnancy test in women of childbearing potential

### Regular tests:

- FBC, electrolytes, renal and liver profile
- ECG as clinically indicated
- Pregnancy test in women of childbearing potential, 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
- The recommended dose reduction level for the management of adverse reactions is 225 mg daily
- Detailed recommendations for dose modification for adverse events are provided in table 2 below

## Renal and Hepatic Impairment:

**Table 1: Dose Modification of Tepotinib in Renal and Hepatic Impairment**

| Renal Impairment |   | Hepatic Impairment                   |                              |
|------------------|---|--------------------------------------|------------------------------|
| CrCl (mL/min)    | Dose                                    | Child-Pugh A/B (or mild to moderate) | No dose adjustment is needed |
| ≥30              | No dose adjustment is needed            | Child-Pugh C (or severe)             | Not recommended              |
| <30              | No need for dose adjustment is expected |                                      |                              |
| Haemodialysis    | No need for dose adjustment is expected |                                      |                              |

Renal and hepatic: Giraud et al, 2023

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## Management of adverse events:

**Table 2: Dose Modifications of Tepotinib for Adverse Events**

| Adverse reactions   | Severity  | Recommended dose modification  |
|---|---|--|
| Interstitial lung disease (ILD)   | Any grade   | Withhold treatment if ILD is suspected. Permanently discontinue treatment if ILD is confirmed.   |
| Increased ALT and/or AST without increased total bilirubin  | ALT and/or AST greater than 5 times up to 20 times ULN                                | Withhold treatment until recovery to baseline ALT/AST. If recovered to baseline within 7 days, then resume treatment at the same dose; otherwise resume treatment at a reduced dose. |
|   | ALT and/or AST greater than 20 times ULN  | Permanently discontinue treatment.   |
| Increased ALT and/or AST with increased total bilirubin in the absence of cholestasis or haemolysis | ALT and/or AST greater than 3 times ULN with total bilirubin greater than 2 times ULN | Permanently discontinue treatment.   |
| Other adverse reactions   | Grade 3 or higher   | Reduce treatment to 225 mg until the adverse reaction recovers to ≤ grade 2. A temporary interruption of treatment for no more than 21 days can also be considered.                  |

## SUPPORTIVE CARE:

### EMETOGENIC POTENTIAL:

- As outlined in NCCP Classification Document for Systemic AntiCancer Therapy (SACT) Induced Nausea and Vomiting linked [here](#)

Minimal to low (Refer to local policy).

#### For information:

Within NCIS regimens, antiemetics have been standardised by the Medical Oncologists and Haemato-oncologists and information is available in the following documents:

- NCCP Supportive Care Antiemetic Medicines for **Inclusion in NCIS** (Medical Oncology) - link [here](#)
- NCCP Supportive Care Antiemetic Medicines for **Inclusion in NCIS** (Haemato-oncology) - link [here](#)

### PREMEDICATIONS:

- No specific recommendations

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## OTHER SUPPORTIVE CARE:

- Treatment with anti-diarrhoeal agents, such as loperamide (4mg at first onset followed by 2mg after each loose stool (max 16 mg /day) or see local policy) should be started at the first sign of loose stools.
- Women of childbearing potential should use effective contraception during treatment and for at least 1 week after the last dose. Women using systemically acting hormonal contraceptives should add a barrier method during treatment and for at least 1 week after the last dose. Male patients with female partners of childbearing potential should use barrier contraception during treatment and for at least 1 week after the last dose.

## ADVERSE EFFECTS:

- Please refer to the relevant Summary of Product Characteristics (SmPC) for details.
- **Tepotinib is subject to additional monitoring. Healthcare professionals are asked to report any suspected adverse reactions.**

## DRUG INTERACTIONS:

- Current SmPC and drug interaction databases should be consulted for information.

## REFERENCES:

1. Paik P, et al. Tepotinib in Non-Small Cell Lung Cancer with MET Exon 14 Skipping Mutations. N Engl J Med 2020; 383:931-943.
2. Giraud EL, de Lijster B, Krens SD, Desar IME, Boerrigter E, van Erp NP. Dose recommendations for anticancer drugs in patients with renal or hepatic impairment: an update. Lancet Oncol 2023; 24: e229.
3. NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®). Antiemesis Version 1.2024 – December 13, 2023. Accessed June 2024. Available at [https://www.nccn.org/professionals/physician\\_gls/pdf/antiemesis.pdf](https://www.nccn.org/professionals/physician_gls/pdf/antiemesis.pdf)
4. Herrstedt J et al. 2023 MASCC and ESMO guideline update for the prevention of chemotherapy and radiotherapy induced nausea and vomiting. ESMO Open. 2024;9(2):102195. Accessed June 2024. Available at <https://www.esmo.org/guidelines/guidelines-by-topic/esmo-clinical-practice-guidelines-supportive-and-palliative-care/prevention-of-chemotherapy-and-radiotherapy-induced-nausea-and-vomiting>
5. Tepotinib (Tepmetko®) summary of Product Characteristics. Accessed June 2024. Available at [https://www.ema.europa.eu/en/documents/product-information/tepmetko-epar-product-information\\_en.pdfdocument-for-systemic-anti-cancer-therapy-sact-induced-nausea-and-vomiting.pdf](https://www.ema.europa.eu/en/documents/product-information/tepmetko-epar-product-information_en.pdfdocument-for-systemic-anti-cancer-therapy-sact-induced-nausea-and-vomiting.pdf)

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| Version | Date       | Amendment                    | Approved By       |
|---------|------------|------------------------------|-------------------|
| 1       | 19/07/2024 |                              | Prof Maccon Keane |
| 1a      | 01/08/2024 | Reimbursement status updated | NCCP              |

Comments and feedback welcome at [oncologydrugs@cancercontrol.ie](mailto:oncologydrugs@cancercontrol.ie).

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