

Report VORANIGO® - Vorasidenib

Product & Mechanism of action	Authorized indications Licensing status	Essential therapeutic features	NHS impact																																																
<p>Substance: Vorasidenib</p> <p>Brand Name: Voranigo</p> <p>Originator/licensee: Les Laboratoires Servier</p> <p>Classification: NCE</p> <p>ATC code: C10AX</p> <p>Orphan Status: Eu: Yes Us: Yes</p> <p>Mechanism of action: Vorasidenib, an antineoplastic agent, is an inhibitor that targets the mutant IDH1 and IDH2 enzymes. In pts. with astrocytoma or oligodendroglioma, IDH1 and IDH2 mutations lead to overproduction of the oncogenic metabolite 2-hydroxyglutarate, which results in impaired cellular differentiation contributing to oncogenesis. By inhibiting the IDH1 and IDH2 mutated proteins, vorasidenib inhibits the abnormal production of 2-HG thereby leading to differentiation of malignant cells and a reduction in their proliferation [1].</p>	<p>Authorized Indication: EMA: Vorasidenib as monotherapy is indicated for the treatment of predominantly non-enhancing Grade 2 astrocytoma or oligodendroglioma with an IDH1 R132 or IDH2 R172 mutation in adult and adolescent pts aged ≥12 years and weighing ≥40 kg who only had surgical intervention and are not in immediate need of radiotherapy or chemotherapy [1].</p> <p>FDA: Vorasidenib is indicated for the treatment of adult and paediatric pts ≥12 years with Grade 2 astrocytoma or oligodendroglioma with a susceptible IDH1 or IDH2 mutation following surgery including biopsy, sub-total resection, or gross total resection [2].</p> <p>Route of administration: OS</p> <p>Licensing status EU CHMP P.O. date: 24/07/2025 FDA M.A. date: 06/08/2024</p> <p>EU Speed Approval Pathway: No FDA Speed Approval Pathway: Yes</p> <p>----- ABBREVIATIONS: AE: Adverse Event CHMP: Committee for Medicinal Products for Human Use CI: Confidential Interval ECOG: Eastern Cooperative Oncology Group HR: Hazard Ratio IDH1: Isocitrate dehydrogenase-1 IDH2: Isocitrate dehydrogenase-2 ITT: Intention to treat M.A.: Marketing Authorization PFS: Progression free survival P.O.: Positive Opinion PS: Performance Status Pts: Patients WHO: World Health Organization</p>	<p>Summary of clinical EFFICACY: INDIGO (NCT04164901) was an international, double-blind, placebo-controlled, phase 3 trial to assess efficacy and safety of vorasidenib therapy in pts. with residual or recurrent grade 2 IDH-mutant glioma.</p> <p>Eligible pts. were ≥12 years of age, had residual or recurrent histologically confirmed grade 2 oligodendroglioma or astrocytoma, according to WHO 2016 criteria, with centrally confirmed IDH1 and IDH2 mutation status. Pts. had to have a Karnofsky of ≥80, ≥1 previous surgery (most recent surgery occurring between one year and five years before randomization). Other anticancer treatment for glioma and/or use of glucocorticoids were not allowed.</p> <p>Pts. (n=331) were randomly assigned in a 1:1 ratio to receive vorasidenib (n=168) or placebo (n=163). Vorasidenib was administered orally at the dose of 40 mg daily.</p> <p>The primary endpoint was PFS in the ITT population [3].</p> <p>Results are provided in table 1.</p> <table><caption>Table 1: primary endpoint</caption><tr><th></th><th>Vorasidenib (n=168)</th><th>Placebo (n=163)</th></tr><tr><td>Median Progression-Free Survival (PFS)</td><td>27.7 months</td><td>11.1 months</td></tr><tr><td>Number of Events, n (%)</td><td></td><td></td></tr><tr><td>Progressive disease</td><td>47 (28)</td><td>88 (54)</td></tr><tr><td>Death</td><td>0</td><td>0</td></tr><tr><td>HR (95% IC)</td><td colspan="2">0.39 (0.27, 0.56)</td></tr><tr><td>p-value</td><td colspan="2"><0.0001</td></tr></table> <p>Summary of clinical SAFETY: Most common grade ≥3 AEs are summarized in table 2 [3].</p> <table><caption>Table 2: most common grade ≥3 AEs</caption><tr><th>Grade ≥3 AEs</th><th>Vorasidenib (n=167)</th><th>Placebo (n=163)</th></tr><tr><td></td><td colspan="2">n. (%)</td></tr><tr><td>Any adverse event</td><td>38 (22.8)</td><td>22 (13.5)</td></tr><tr><td>Increased alanine aminotransferase</td><td>16 (9.6)</td><td>0</td></tr><tr><td>Increased aspartate aminotransferase</td><td>7 (4.2)</td><td>0</td></tr><tr><td>Increased γ-glutamyltransferase</td><td>5 (3.0)</td><td>2 (1.2)</td></tr><tr><td>Seizure</td><td>7 (4.2)</td><td>4 (2.5)</td></tr><tr><td>Fatigue</td><td>1 (0.6)</td><td>2 (1.2)</td></tr><tr><td>Diarrhoea</td><td>1 (0.6)</td><td>1 (0.6)</td></tr></table> <p>Ongoing studies:</p> <ul style="list-style-type: none">● For the same indication: Yes● For other indications: No <p>Discontinued studies (for the same indication): No</p> <p>----- References: [1] https://www.ema.europa.eu/en/medicines/human/EPAR/voranigo [2] https://www.accessdata.fda.gov/drugsatfda_docs/label/2024/218784s000lbl.pdf [3] https://www.nejm.org/doi/pdf/10.1056/NEJMoa2304194 [4] https://www.researchgate.net/publication/221730949_Epidemiology_of_glioma_and_non-glioma_brain_tumours_in_Europe [5] https://pmc.ncbi.nlm.nih.gov/articles/PMC4109985/</p>		Vorasidenib (n=168)	Placebo (n=163)	Median Progression-Free Survival (PFS)	27.7 months	11.1 months	Number of Events, n (%)			Progressive disease	47 (28)	88 (54)	Death	0	0	HR (95% IC)	0.39 (0.27, 0.56)		p-value	<0.0001		Grade ≥3 AEs	Vorasidenib (n=167)	Placebo (n=163)		n. (%)		Any adverse event	38 (22.8)	22 (13.5)	Increased alanine aminotransferase	16 (9.6)	0	Increased aspartate aminotransferase	7 (4.2)	0	Increased γ-glutamyltransferase	5 (3.0)	2 (1.2)	Seizure	7 (4.2)	4 (2.5)	Fatigue	1 (0.6)	2 (1.2)	Diarrhoea	1 (0.6)	1 (0.6)	<p>Cost of therapy: Not available yet.</p> <p>Epidemiology: In Europe, the annual incidence of gliomas is approximately of 6 cases/100,000 people [4]. Most gliomas are astrocytic (70%) or oligodendroglioma tumours (9%) [5].</p> <p>----</p> <p>POSSIBLE PLACE IN THERAPY: The combination of radiation and chemotherapy is the standard of care for the postoperative treatment of pts. with IDH-mutant grade 3 gliomas and high risk for early disease progression IDH-mutant grade 2 gliomas. However, treatment is not curative and it is associated with potential long-term toxic effects. To delay these potential long-term toxic effects, a watch-and-wait period is considerable for pts with IDH-mutant grade 2 gliomas [3].</p> <p>The addition of Vorasidenib to the above regimens could represent a new opportunity for these pts.</p> <p>OTHER INDICATIONS IN DEVELOPMENT: -</p> <p>SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: -</p> <p>OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION: - .</p> <p>*Service reorganization: No *Possible off label use: Yes</p>
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