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# **Vorasidenib and ivosidenib in IDH1-mutant low-grade glioma: a randomized, perioperative phase 1 trial**

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## Supplementary tables

**Supplementary Table 1. Summary of pharmacokinetic parameters of vorasidenib and ivosidenib in tumor and plasma.\***

Time of Surgery Sample	Tumor — ng/g				Plasma C <sub>avg</sub> — ng/ml			
	Vorasidenib		Ivosidenib		Vorasidenib		Ivosidenib	
	50 mg QD (N=9)	10 mg QD (N=9)	500 mg QD (N=11)	250 mg BID (N=9)	50 mg QD (N=10)	10 mg QD (N=9)	500 mg QD (N=11)	250 mg BID (N=9)
Geometric mean (range) drug concentration	110 (59.8–190.0)	66.7 (33.2–113.0)	233 (105.0–604.0)	278 (109.0–594.0)	70 (31.6–144.0)	22.4 (11.2–34.9)	2618 (1762.0–3369.0)	2435 (1597.0–3829.0)
Mean±SD brain-to-plasma ratio	1.69±0.55	2.92±1.13†	0.10±0.05	0.13±0.08†				

\*BID denotes twice daily, C<sub>avg</sub> average concentration over the dosing interval, and QD once daily.

†N=8.

**Supplementary Table 2. Summary of TEAEs.\***

	Vorasidenib			Ivosidenib		
	50 mg QD (N=14)	10 mg QD (N=10)	Total (N=24)	500 mg QD (N=15)	250 mg BID (N=10)	Total (N=25)
All patients — no. (%)†						
Patients with ≥1 TEAE	14 (100)	10 (100)	24 (100)	15 (100)	10 (100)	25 (100)
Patients with treatment-related TEAE	10 (71.4)	4 (40.0)	14 (58.3)	12 (80.0)	5 (50.0)	17 (68.0)
Patients with serious TEAEs	3 (21.4)	1 (10.0)	4 (16.7)	4 (26.7)	1 (10.0)	5 (20.0)
Patients with treatment-related serious TEAE	1 (7.1)	0	1 (4.2)	0	0	0
Patients with ≥1 grade ≥3 TEAE	5 (35.7)	2 (20.0)	7 (29.2)	5 (33.3)	1 (10.0)	6 (24.0)
Patients with ≥1 treatment-related grade ≥3 TEAE	1 (7.1)	1 (10.0)	2 (8.3)	1 (6.7)	0	1 (4.0)
Patients with ≥1 TEAE of special interest‡	2 (14.3)	0	2 (8.3)	0	0	0
Patients with TEAE leading to drug discontinuation	0	0	0	1 (6.7)	0	1 (4.0)
Patients with TEAE leading to drug reduction	1 (7.1)	0	1 (4.2)	0	0	0
Patients with TEAE leading to drug interruption	3 (21.4)	2 (20.0)	5 (20.8)	3 (20.0)	0	3 (12.0)

\*BID denotes twice daily, QD once daily, and TEAE treatment-emergent adverse event.

†Includes all patients who received at least one dose of ivosidenib or vorasidenib in the pre- or postoperative treatment period; untreated control patients are categorized according to postoperative treatment. Only TEAEs occurring on or after the first dose of study drug are included.

Any grade 3 or higher QT prolongation event in patients receiving ivosidenib, regardless of seriousness, were reported as a TEAE of special interest. Any grade 2 or worse alanine aminotransferase or aspartate aminotransferase elevation in patients receiving vorasidenib, regardless of seriousness, were reported as a TEAE of special interest.

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**Supplementary Table 3. 2-HG suppression pathways (C2).**

See separate spreadsheet file (Mellinghoff et al Supplemental Tables 3, 4 and 6.xlsx), tab 1

'Suppl T3 2-HG supp pathways C2'. *P* values adjusted for multiplicity as described in Methods.

NES denotes normalized enrichment score, padj adjusted *P* value, pval *P* value.

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**Supplementary Table 4. 2-HG suppression pathways (Hallmark).**

See separate spreadsheet file (Mellinghoff et al Supplemental Tables 3, 4 and 6.xlsx), tab 2

'Suppl T4 2-HG suppr paths Hallm'. *P* values adjusted for multiplicity as described in Methods.

NES denotes normalized enrichment score, padj adjusted *P* value, pval *P* value.

**Supplementary Table 5. Tumor response by response assessment in neuro-oncology criteria for low-grade gliomas according to the investigator.\***

	Vorasidenib			Ivosidenib		
	50 mg QD (N=14)	10 mg QD (N=10)	Total (N=24)	500 mg QD (N=14)	250 mg BID (N=8)	Total (N=22)
Best overall response — no. (%)						
Complete response	0	0	0	0	0	0
Partial response	2 (14.3)	0	2 (8.3)	3 (21.4)	1 (12.5)	4 (18.2)
Minor response	4 (28.6)	1 (10.0)	5 (20.8)	2 (14.3)	0	2 (9.1)
Stable disease	6 (42.9)	8 (80.0)	14 (58.3)	9 (64.3)	5 (62.5)	14 (63.6)
Progressive disease	2 (14.3)	1 (10.0)	3 (12.5)	0	2 (25.0)	2 (9.1)
Objective response rate† — no. (%) [95% CI]	6 (42.9) [17.7–71.1]	1 (10.0) [0.3–44.5]	7 (29.2) [12.6–51.1]	5 (35.7) [12.8–64.9]	1 (12.5) [0.3–52.7]	6 (27.3) [10.7–50.2]

\*BID denotes twice daily, and QD once daily.

†Complete response, partial response, or minor response.

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**Supplementary Table 6. Response analysis (Hallmark).**

See separate spreadsheet file (Mellinghoff et al Supplemental Tables 3, 4 and 6.xlsx), tab 3

'Suppl T6 Response analysis Hall'. *P* values adjusted for multiplicity as described in Methods.

NES denotes normalized enrichment score, padj adjusted *P* value, pval *P* value.