



Principle Investigators

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Participating Study Centers (USA)

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Trial Registration Number: NCT04479241

Start Date: October 21, 2020

Estimated Completion Date: March 2023



Key Eligibility Criteria

≥18 Age ≥18 years **≥70** Baseline KPS ≥70

Patients with confirmed rGBM with enhancing lesions ≥1 to ≤5.5 cm in diameter in all planes

Underwent prior vaccination against PV and received a boost immunization with trivalent IPOL[®] prior to PVSRIPO administration

No multifocal disease, serious cerebral herniation syndrome, or extensive leptomeningeal, subependymal, or ≥1 cm enhancing disease crossing the midline

No previous discontinuation of any anti-PD-1/ PD-L1 therapy due to toxicities, and no severe active comorbidities

No intratumoral, systemic, or immunosuppressive therapy within 12 weeks prior to day 0, and no high-dose systemic corticosteroids within 2 weeks of PVSRIPO infusion

Objectives



Primary objectives:

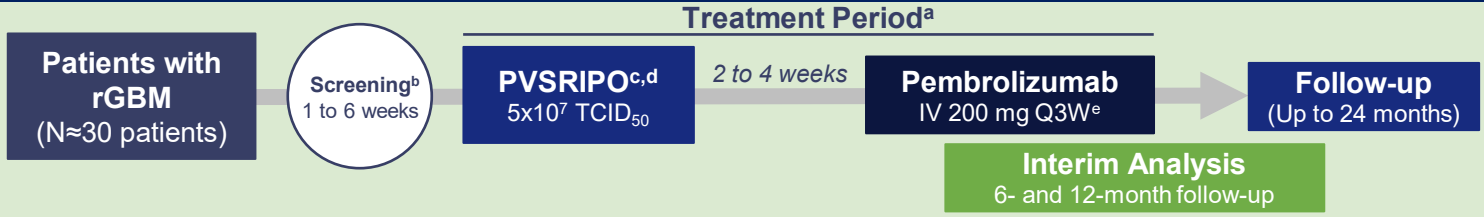
- Evaluate anti-tumor activity
- Evaluate safety and tolerability



Secondary objective:

- Evaluate survival and disease control outcomes

LUMINOS-101 Study Design



^aBevacizumab (7.5 mg/kg Q3W) and/or dexamethasone (≤4 mg/day) for symptom control related to PTE, as needed. ^bPatients receive IPOL[®] anti-PV booster vaccination. ^cPVSRIPO intratumoral administration of 5x10⁷ TCID₅₀ via CED. ^dPVSRIPO retreatment if cPD ≥12 months from prior infusion. ^eFor up to 24 months, permanent discontinuation for toxicity or cPD.

Study Endpoints



Primary endpoints:

- Efficacy:** ORR, DOR, DRR
- Safety:** TEAEs via CTCAE



Secondary endpoints:

- Efficacy:** PFS (via alternative response criteria), DCR, duration of disease control, landmark and overall survival
- Safety:** Any cause TEAEs via CTCAE



Exploratory endpoints:

- Biomarkers associated with PVSRIPO activity or that may predict response
- Radiographic response via alternative response criteria

Radiographic response via iRANO criteria, unless otherwise noted

Schedule of Events & Assessments

- Day 0 or 1:** PVSRIPO infusion^{*}
- Day 14 to 28 up to month 24:** Initiate pembrolizumab 200 mg Q3W
- Month ≥6:** Response endpoint assessments
- Month 12:** Response endpoint assessments
- Month 24:** End of study

^{*}Retreatment for qualifying patients ≥12 mos after prior PVSRIPO dose

Interim Analysis

- Radiographic response (ORR, DCR), DOR, PFS and OS at 6 and 12 months
- Exploratory correlative analyses and preliminary analyses on peripheral blood and tumor tissue to further elucidate mechanism of action