

A Study of the Drug Letermovir as Prevention of Cytomegalovirus Infection After Stem Cell Transplant in Pediatric Patients

Status: RECRUITING

Eligibility Criteria

Age: 2 years to 18 years old

This study is NOT accepting healthy

Healthy Volunteers: volunteers

Inclusion Criteria:

* \geq 2 years and $<$ 18 years at the time of enrollment * Weight must be \geq 18 kg. For patients $<$ 12 years of age and expected to receive cyclosporine, weight must be \geq 30kg * Planned allogeneic HCT (bone marrow, peripheral blood stem cell, or cord blood transplant) * Patient must be CMV sero-positive (i.e., recipient CMV immunoglobulin G positive) * Patient is eligible for entry only if it is feasible for plasma CMV PCR testing to be sent and resulted within the protocol mandated time period * Reminder: To limit the likelihood of positive plasma CMV PCR post-enrollment and prior to start of study treatment period, it is recommended that patient enrollment proceed after patients start their transplant preparative regimen * Patient must have a performance status corresponding to Lansky/Karnofsky scores \geq 50 * Note: Use Lansky for patients \leq 16 years of age and Karnofsky for patients \geq 16 years of age. For further reference, see performance status scales scoring under the standard sections for protocols among protocol reference materials provided on the Children's Oncology Group (COG) member website: https://members.childrensoncologygroup.org/prot/reference/_materials.asp * Estimated glomerular filtration rate \geq 15 mL/min/1.73 m² and not receiving dialysis * Total bilirubin \leq 2.5 mg/dL and serum glutamate-pyruvate transaminase (SGPT) (alanine transaminase [ALT]) \leq 10 x upper limit of normal (ULN) for age * Note: For the purpose of this study, the ULN for SGPT (ALT) has been set to the value of 45 U/L

Exclusion Criteria:

* Expected inability to tolerate oral formulation (e.g., unable swallow whole tablets) of letermovir * Note: Determination of ability to tolerate the oral formulation will be based on a self-assessment or caregiver assessment; eligible subjects and their caregiver will be shown a life size picture of a tablet (or actual tablet) and confirm ability to swallow whole tablet in order to meet study eligibility * Hypersensitivity to letermovir or any component of the formulation * History of CMV end organ disease within 6 months (180 days) prior to enrollment * Note: CMV end organ disease based on proposed definitions by Ljungman et al. and inclusive of proven, probable or possible disease * Receipt of prior allogeneic HCT within one year of study enrollment * Planned prophylactic administration of other anti-CMV medications or cellular products during the study, including: * High dose acyclovir (defined as doses \geq 1500 mg/m² IV or \geq 3200 mg oral (patients \geq 40 kg) or \geq 2400 mg/m² (patients $<$ 40 kg) per day) * High dose valacyclovir (defined as doses \geq 3000 mg/day in patients \geq 20 kg) * Foscarnet * Ganciclovir * Valganciclovir * CMV-directed cytotoxic T lymphocytes * Planned receipt of the following contraindicated medications during the study treatment period; contraindicated medications must be discontinued at least 14 days prior to Day +1 * Contraindicated medications for all patients: * Pimozide * Ergot alkaloids * Contraindicated medications for patients planned to receive cyclosporine: * Bosentan * Lovastatin * Pitavastatin * Rosuvastatin * Simvastatin * Female patients who are pregnant since fetal toxicities and teratogenic effects have been noted in certain animal reproduction studies with letermovir. A pregnancy test is required for female patients of childbearing potential * Lactating females who plan to breastfeed their infants * Sexually active female patients of reproductive potential who have not agreed to use an effective contraceptive method for the duration of their letermovir treatment and through at least 4 weeks after the last dose of letermovir. * Note: No contraception measures are needed specifically during letermovir treatment for male trial participants who have pregnant or non-pregnant female partner(s) of reproductive potential. Contraception measures may be required for other aspects of the HCT procedure. * All patients and/or their parents or legal guardians must sign a written informed consent * All institutional, Food and Drug Administration (FDA), and National Cancer Institute (NCI) requirements for human studies must be met

Conditions & Interventions

Interventions:

PROCEDURE: Biospecimen Collection, DRUG: Letermovir

Conditions:

Hematopoietic and Lymphoid Cell Neoplasm, Malignant Solid Neoplasm

More Information

Contact(s): ctrrecruit@vcu.edu

Principal Investigator:

IRB

Number:

System ID: NCT05711667

Thank you for choosing StudyFinder. Please visit <http://studyfinder.cctr.vcu.edu> to find a Study which is right for you and contact ctrrecruit@vcu.edu if you have questions or need assistance.