

Essai Clinique Généré le 17 mai 2025 à partir de

Titre	A Clinical and Molecular Risk-Directed Therapy for Newly Diagnosed Medulloblastoma
Protocole ID	SJMB12
ClinicalTrials.gov ID	<u>NCT01878617</u>
Type(s) de cancer	Pédiatrique divers
Phase	Phase II
Institution	CENTRE HOSPITALIER UNIVERSITAIRE SAINTE-JUSTINE
Ville	Montréal
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Statut	Actif en recrutement
But étude	 Historically, medulloblastoma treatment has been determined by the amount of leftover disease present after surgery, also known as clinical risk (standard vs. high risk). Recent studies have shown that medulloblastoma is made up of distinct molecular subgroups which respond differently to treatment. This suggests that clinical risk alone is not adequate to identify actual risk of recurrence. In order to address this, we will stratify medulloblastoma treatment in this phase II clinical trial based on both clinical risk (low, standard, intermediate, or high risk) and molecular subtype (WNT, SHH, or Non-WNT Non-SHH). This stratified clinical and molecular treatment approach will be used to evaluate the following: • To find out if participants with low-risk WNT tumors can be treated with a lower dose of radiation to the brain and spine, and a lower dose of the chemotherapy drug cyclophosphamide while still achieving the same survival rate as past St. Jude studies with fewer side effects. • To find out if adding targeted chemotherapy after standard chemotherapy will improve the outcome for intermediate and high risk Non-WNT Non-SHH tumors. • To define the cure rate for standard risk Non-WNT Non-SHH tumors. • To define the cure rate for standard risk Non-WNT Non-SHH tumors. • To define the cure rate determined by the participants from the past St. Jude study. All participants on this study will have surgery to remove as much of the primary tumor as safely possible, radiation therapy, and chemotherapy. The amount of radiation therapy and type of chemotherapy received will be based on the tumor's molecular subgroup assignment and clinical risRhe participant will be assigned to one of three medulloblastoma subgroup assignment and clinical risRhe participant will be assigned to a clinical risk group (low, standard, intermediate, or high) based on assessment of: • WNT (Strata W): positive for WNT biomarkers • SHH (Strata S): positive

Critères d'éligibilité	 Medulloblastoma or medulloblastoma variants including posterior fossa PNET as documented by an institutional pathologist. Age greater than or equal to 3 years and less than 22 years of age at the time of diagnosis. No previous radiotherapy, chemotherapy or other brain tumor directed therapy other than corticosteroid therapy and surgery. Patients must begin treatment as outlined in the protocol within 36 days of definitive surgery (day of surgery is day 0; definitive surgery includes second surgeries to resect residual tumor). Adequate performance status: children < 10-Lansky Score ≥ 30; children ≥ 10-Karnofsky ≥ 30 (except for posterior fossa syndrome). Females of child-bearing potential cannot be pregnant or breast-feeding. Female participants > 10 years of age or post-menarche must have a negative serum or urine pregnancy test prior to enrollment. Biological parent(s) of participant (child) enrolling on this protocol. These parents will be assigned to cohort P. The exclusion criteria below do not apply to this cohort. Participants in the Stratum S maintenance chemotherapy portion of the study must meet the criteria below prior to start of vismodegib therapy: Must be > 10 years at the time of start of maintenance Must be skelatally mature defined as females with a bone age ≥ 15 years and males with a bone age ≥ 17 years Must be skelatally mature defined as females with a bone age ≥ 15 years and males with a bone age ≥ 17 years Must be > 5 years at the time of enrollment Must be > 5 years at the time of enrollment Must bave no congenital heart disease Must bave no congenital heart disease Must be capable of performing the exercise intervention at the time of baseline assessment as determined by the treating physician. Participants in the cognitive impairment operationalized as either an IQ < 70 for children with St. Jude SJMB12 study baseline testing or b
Critères d'exclusion	 CNS embryonal tumor other than medulloblastoma or PNET in the posterior fossa, for example, patients with diagnosis of Atypical Teratoid / Rhabdoid Tumor (ATRT), supratentorial PNET, pineoblastoma, ependymoblastoma, ETANTR are excluded. Research participants with other clinically significant medical disorders that could compromise their ability to tolerate protocol therapy or would interfere with the study procedures or results history.