



Figure A. Brain magnetic resonance imaging (MRI) showing tumor (white arrow) in a patient with Noonan Syndrome. Figure B. Cartoon of a subject with Noonan Syndrome

New research study for children, adolescents, and adults with Noonan Syndrome and other non-Neurofibromatosis type 1 (NF-1) RASopathies called “**Central nervous system cancers in patients with non-NF-1 RASopathies**”

Eligibility:

- Subjects of any age with any RASopathy except for NF-1
- Presence of brain and/or spinal cord abnormalities by MRI suggestive of tumor (cancer) even without confirmatory surgery

Study requirements:

- Permission to assess clinical chart to collect limited clinical and radiologic characteristics (including MRIs) related to RASopathy and brain tumor(s)
- Permission to obtain leftover tumor samples (if available) and to collect saliva for genetic studies

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