# **Oncology Clinical Pathways** IDH Mutant Astrocytoma

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## **IDH Mutant Astrocytoma – Presumptive Conditions**

VA automatically presumes that certain disabilities were caused by military service. This is because of the unique circumstances of a specific Veteran's military service. If a presumed condition is diagnosed in a Veteran within a certain group, they can be awarded disability compensation.

Atomic Veterans Exposed to Ionizing Radiation

• Cancer of the Brain

Gulf War and Post 9/11 Veterans

If the patient served on or after Sept. 11, 2001, in Afghanistan, Djibouti, Egypt, Jordan, Lebanon, Syria, Uzbekistan, or Yemen or if you served in the \*Southwest Asia theater of operations, or Somalia, on or after Aug. 2, 1990, specific conditions include:

Brain Cancer

\* The Southwest Asia theater of operations refers to Iraq, Kuwait, Saudi Arabia, the neutral zone between Iraq and Saudi Arabia, Bahrain, Qatar, the United Arab Emirates, Oman, the Gulf of Aden, the Gulf of Oman, the Persian Gulf, the Arabian Sea, the Red Sea, and the airspace above these locations.

For more information, please visit U.S. Department of Veterans Affairs - Presumptive Disability Benefits (va.gov)







#### **IDH Mutant Astrocytoma – Grade 2**









#### **IDH Mutant Astrocytoma – Grades 3-4**









#### **IDH Mutant Astrocytoma – Molecular Testing**









### **IDH Mutant Astrocytoma – Molecular Testing Table**

Eligibility	Test Category	Test Type	Recommended Vendors	NPOP Coverage	Specimen Type		
Age > 55, Non-midline, Non-posterior fossa, AND No history of previous low grade glioma	IHC	IDH1 R132 mutation ATRX	Local VA or locally contracted vendor	No	Tumor Tissue		
IDH-mutated	FISH	1p/19q FISH for codeletion CDKN2A/B homozygous loss	Local VA or locally contracted vendor	No	Tumor Tissue		
IDH-wild type	Molecular	TERT promoter mutation testing	Local VA or locally contracted vendor	No	Tumor Tissue		
	**FISH	EGFR for amplification Chromosomes 7 and 10 for gain 7/loss 10	Local VA or locally contracted vendor	No	Tumor Tissue		
	**Microarray	Chromosomal microarray (aka Oncoscan FFPE)	Local VA or locally contracted vendor	No	Tumor Tissue		
	Methylation Testing	MGMT promoter methylation testing	Local VA or locally contracted vendor	No	Tumor Tissue		
Age < 55, Midline tumor, Circumscribed glioma, Posterior fossa location, Unusual histology, IDH-wildtype WITH loss of ATRX, OR IDH-wildtype WITHOUT glioblastoma-defining molecular alterations	Somatic NGS	DNA and RNA-based comprehensive genomic profiling (CGP)	Tempus	Yes	Tumor Tissue		
* Testing should not be ordered indiscriminately on every case as it will inappropriately exhaust tissue. Instead, follow the pathological workup recommended on the Molecular Testing page for appropriate test utilization							
* Choose FISH OR microarray. In most cases FISH can be done instead of microarray. If performing microarray, then FISH is not indicated.							





