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# Adolescents and Young Adults With Cancer: CNS Tumors

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## Abstract

Tumors of CNS are common in adolescents and young adults (AYAs). As the second leading cause of cancer-related death, CNS tumors in AYAs require improved clinical management. In this review, we discussed the current diagnostic approaches and recommended management strategies for malignant tumors in adult-type (IDH-mutant gliomas) and pediatric-type gliomas (pediatric high-grade gliomas), ependymoma and medulloblastoma, which commonly occur in AYAs. The impact of advanced molecular diagnostic approaches on the understanding of tumor biology of AYA CNS tumors is emphasized. To enhance participation in clinical trials, which poses a unique challenge in AYAs with CNS tumors, we propose encouraging referrals to neuro-oncology specialty care and improving collaboration between oncologists who care for both pediatric and adult patients. This will ensure better representation of AYA patients in research studies. Finally, we discussed the importance of considering neurocognitive and psychological function in AYAs with CNS tumor.

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