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**Educational Abstract**

Topics: General Radiology, Academics, Neuroradiology

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**Clinical and Radiological Findings of HIV Associated Central Nervous System Opportunistic Infections: A Diagnostic Map.**

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**Objectives:**

1. Recognize common clinical CNS manifestations in HIV infected patients.
2. Determine which imaging modality is most appropriate depending on the clinical presentation and suspected disease
3. Identify imaging findings of most common CNS manifestations in HIV infected patients

**Background**

HIV has reached every country and nearly all populations throughout the world, despite advances in antiretroviral therapy (ART) a large number of patients do not receive adequate treatment. Patients that are not adequately treated commonly suffer from HIV associated CNS opportunistic infections.

**Findings/Procedural Details**

CNS opportunistic infections have unique clinical findings in patients with HIV when compared to immunocompetent patients. Commonly associated CNS lesions include toxoplasma encephalitis, primary CNS lymphoma, progressive multifocal leukoencephalopathy (PML), HIV encephalopathy, and CMV encephalitis. A clinician must be able to accurately recognize the presenting symptoms of each disorder and choose the most efficient diagnostic study for the suspected condition. In turn, accurate clinical imaging evaluation is imperative for timely and appropriate patient management.

**Conclusions**

In this educational exhibit, we discuss the most common clinical presentations, and radiological findings of CNS-specific opportunistic infections with the intent of achieving accurate and precise recognition, diagnosis, and treatment.