Photo quiz: young girl with cough, headache, and visual loss.

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An 18-year-old girl who had never been sick before complained of vision loss, headaches, cough, and weight loss for a month. She had been seen by a general practitioner for the above-mentioned symptoms and had been started on empiric antituberculous treatment. After 4 months of therapy, her symptoms persisted. Finally, with her symptoms worsening, she underwent magnetic resonance imaging (MRI) of the brain, which showed two space-occupying lesions (Fig. 1A). She was also found to have a coin-shaped lesion on her chest X-ray examination. A computed tomography (CT) scan of the chest and abdomen showed multiple cavities and nodules in both the lungs and the kidneys. A CT scan-guided biopsy of the lung and kidney nodule was performed, and the biopsy specimen was sent for histopathological analysis along with bacterial, fungal, and mycobacterial cultures. Based on the results of the histopathological analysis (Fig. 1B), the colonial morphology (Fig. 1C), and the microscopic features (Fig. 1D), what is your diagnosis?