Cannoccal meningitis is most commonly found in HIV positive patients with a CD4 < 100. The infrequency in which it is encountered outside of Sub-Saharan Africa and its variable physical exam presentation makes it a diagnostic challenge in the United States.

**CASE DESCRIPTION**

A 69 year old male with a past history of hypertension, bronchitis, diabetes mellitus type 2, and hypothyroidism presented to our ED with 1 week nausea, vomiting and headache. He was seen in an urgent care center five days prior, told he was influenza + and started on Tamiflu and clarithromycin. He came into another ED 4 days prior for the same issues and was sent home with Phenergan. Patient stated he was persistently vomiting 4-5 times daily at home for past 3 days, still with HA. He is now hypertensive (170/89) for 2 days and he cannot hold down his oral hypertension medications. Other systems reviewed and negative except a mild dry cough beginning 1 month ago.

On presentation, patient had a temperature of 100.1 F, HR 78, RR 17, 94% RA – 100.1 F – BMI 38.

- Normal neurological exam with neck ROM intact, neg nuchal tenderness, neg Brudzinski’s sign, chin to chest with no pain.
- CBC, BMP, lipase, LFTs, blood culture, UA and culture, LA, CXR ordered and he is started on NS, Toradol, and Reglan.
- CT brain negative. Patient declines lumbar puncture.
- On reassessment, nausea resolved, but HA persisted. Lactic acid is 2.1. Patient is admitted for possible meningitis and started on Vancomycin, Ceftriaxone.
- ID is consulted and diagnoses patient with HSV meningitis. Antibiotics are stopped. Patient refuses LP again.
- On day 5, patient becomes more confused, tells primary team that he wants to “jump out of the window.” Speech is noted to be slurred, and he is disoriented to time. He states he is 12 years old. Mild right facial droop was seen. A stroke alert was called on the patient.
- Repeat CT brain showed findings concerning for PRES syndrome.

**DISCUSSION**

Well-known for its presence in pigeon droppings, cryptococcus has an incidence of 1 million people a year with a reported 60% mortality. It begins indolently over weeks and generally presents similarly to the common cold. Neck stiffness, photophobia, and vomiting are seen in only 20-30% of patients. Kernig’s and Brudzinski’s sign are only 2-5% sensitive. Cryptococcal antigen does not correlate with severity of disease. Guidelines dictate using an LP to confirm diagnosis. If lesions noted on CT, differential includes toxoplasmosis, lymphoma, and TB. Positive cryptococcal antigen is highly suggestive of disease and becomes positive before CSF culture becomes positive. Encapsulated, round yeasts are seen with India ink staining on pathology. A lumbar drain is needed for opening pressures >20 ccH2O. Treatment includes Amphotericin and Flucytosine for 2 weeks then Diflucan for 10 weeks. Repeat LP 2 weeks after initiating treatment. Posterior reversible encephalopathy syndrome (PRES), is a syndrome characterized by headache, confusion, seizures and visual loss and is not traditionally included on the cryptococcal differential. It is thought to result from failure of blood pressure autoregulation and may occur due to a variety of causes, including malignant hypertension and eclampsia.

**REFERENCES**