Diagnosing Acute Intermittent Porphyria (AIP)



Diagnosis of AIP is challenging because signs and symptoms mimic other, more common conditions.¹ AIP is a rare inherited disease caused by a partial deficiency of the enzyme porphobilinogen (PBG) deaminase in the heme biosynthetic pathway.1

Accuracy and speed are critical in the diagnosis of an acute porphyric attack.¹

	Patient pro	esentatio	n	
 Abdominal pain most common symptom¹ Present in >85% of patients Neuropathic in origin Usually severe, unremitting, and diffuse 	 Vomiting Constipation Diarrhea Urinary Dark or reddish urine 	 Neurologic Pain in the chest, necl Paresis Respirator Mental syn Convulsion Cardiovascul Tachycard 	extremities, back, k, or head y paralysis nptoms ns ar	Family history of acute intermittent porphyria ^{‡2}
	Patient	history		
	Patient	history		
 Patient characteristics Gender (acute attacks are 4 to 5 times more common in women)² Luteal phase of menstrual cycle¹ Age of patient (acute attacks most common in their 30s)² 		 Possible precipitating factor Use of alcohol or illicit drugs^{1,2} Endogenous hormones¹ Crash dieting¹ 		 Smoking^{1,2} Emotional and/or physical stress^{1,2}
	Inde Susp	ex of icion		
	Act	ion		
 PBG urine test Screening tests to measure the levels of the porphyrin precursor PBG in urine are essential to confirm a diagnosis of acute porphyria³ Acute attacks are always accompanied by increased production and excretion of PBG in AIP^{3,4} It is essential that before arranging for a PBG urine test, the physician consult with the laboratory to ensure that the test is available and also know the recommended procedures as to how and when to collect the urine sample⁴ 			 Genetic testing AIP is metabolic disorder^{3,4} For confirmatory molecular genetic testing, physicians should consult their provincial laboratory services for more information 	
with the laboratory to ensure the recommended procedures as the second and the second	nat the test is available and also know to o how and when to collect the urine sa nptoms in porphyric patients are due to porphyria – porphyric patients: mately one third of cases, family history is absent due to disease late	the ample ⁴ are not immune to other c ency. ²		of the acute porphyrias. Ann Intern Med. 2005;142:439-450.

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