## **Diagnosing Acute** Intermittent Porphyria (AIP)



Diagnosis of AIP is challenging because signs and symptoms mimic other, more common conditions.<sup>1</sup> 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.<sup>1</sup>

	Patient pro	esentatio	n	
<ul> <li>Abdominal pain most common symptom<sup>1</sup></li> <li>Present in &gt;85% of patients</li> <li>Neuropathic in origin</li> <li>Usually severe, unremitting, and diffuse</li> </ul>	<ul> <li>Vomiting</li> <li>Constipation</li> <li>Diarrhea</li> <li>Urinary</li> <li>Dark or reddish urine</li> </ul>	<ul> <li>Neurologic</li> <li>Pain in the chest, necl</li> <li>Paresis</li> <li>Respirator</li> <li>Mental syn</li> <li>Convulsion</li> <li>Cardiovascul</li> <li>Tachycard</li> </ul>	extremities, back, k, or head y paralysis nptoms ns <b>ar</b>	Family history of acute intermittent porphyria <sup>‡2</sup>
	Patient	history		
	Patient	history		
<ul> <li>Patient characteristics</li> <li>Gender (acute attacks are 4 to 5 times more common in women)<sup>2</sup></li> <li>Luteal phase of menstrual cycle<sup>1</sup></li> <li>Age of patient (acute attacks most common in their 30s)<sup>2</sup></li> </ul>		<ul> <li>Possible precipitating factor</li> <li>Use of alcohol or illicit drugs<sup>1,2</sup></li> <li>Endogenous hormones<sup>1</sup></li> <li>Crash dieting<sup>1</sup></li> </ul>		<ul> <li>Smoking<sup>1,2</sup></li> <li>Emotional and/or physical stress<sup>1,2</sup></li> </ul>
	Inde Susp	ex of icion		
	Act	ion		
<ul> <li>PBG urine test</li> <li>Screening tests to measure the levels of the porphyrin precursor PBG in urine are essential to confirm a diagnosis of acute porphyria<sup>3</sup></li> <li>Acute attacks are always accompanied by increased production and excretion of PBG in AIP<sup>3,4</sup></li> <li>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 sample<sup>4</sup></li> </ul>			<ul> <li>Genetic testing</li> <li>AIP is metabolic disorder<sup>3,4</sup></li> <li>For confirmatory molecular genetic testing, physicians should consult their provincial laboratory services for more information</li> </ul>	
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 <sup>4</sup> are not immune to other c ency. <sup>2</sup>		of the acute porphyrias. Ann Intern Med. 2005;142:439-450.

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