

## TEST UPDATE PAI1 4G/5G

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### OVERVIEW AND CLINICAL UTILITY:

**Effective December 15, 2015**, the gene name *Plasminogen Activator Inhibitor, Type 1* (PAI1) will change to *Serpin Peptidase Inhibitor, Clade E, Member 1* (SERPINE1). The orderable test code, PAI, will not change, however PathGroup will update all applications and directories to reflect the revised test name and description outlined below. In addition, PathGroup will implement new test methodology by PCR followed by fragment length analysis.

The promoter region of *SERPINE1* containing 4G/5G length polymorphism is PCR amplified and the products are separated by length using capillary electrophoresis. The length of the products determines whether the patient is homozygous for the 4G allele, homozygous for the 5G allele or is heterozygous with both a 4G and a 5G allele. This new methodology has >99% sensitivity and >99% specificity for this polymorphism. **The ordering test code, CPT code, reference range and specimen collection requirements will remain the same.**

### ORDERING:

TEST CODE	TEST NAME	CPT CODE	REFERENCE RANGE
PAI	<b>NEW: SERPINE1 (PAI-1) 4G/5G Genotyping</b>  <i>OLD: Plasminogen Activator Inhibitor-1 (PAI-1) 4G/5G Polymorphism Detection</i>	81400	<b>Normal: 5G/5G</b> <b>Abnormal: 4G/4G and 4G/5G</b>

### SPECIMEN COLLECTION AND STORAGE:

#### ACCEPTABLE SPECIMEN COLLECTION REQUIREMENTS

- EDTA (purple top) peripheral blood, minimum volume of 3-5 ml
- ACD (yellow top) peripheral blood, minimum volume of 3-5 ml

#### UNACCEPTABLE SPECIMEN COLLECTION

- Heparin (sodium or lithium) collected specimens
- Clotted specimens
- Serum Separator specimens
- Frozen specimens
- Unlabeled specimens
- Less than the minimum required volume

**TEST PERFORMED:** Monday & Wednesday

**TURNAROUND TIME:** 72 – 96 Hours

**For further questions, please contact Client Services at 615-562-9300 or 1-888-474-5227.**