POST TRANSFUSION PURPURA (PTP) PANEL

BACKGROUND:
Post Transfusion Purpura (PTP) is a rare syndrome characterized by the development of dramatic, sudden, and self limiting thrombocytopenia 5-10 days after a blood transfusion in a patient with a previous history of sensitization by pregnancy or transfusion. Coincident with the thrombocytopenia is the development of a potent platelet specific antibody, usually anti-HPA-1a (PIA1). Although HPA-1a is the dominant platelet alloantigen incompatibility associated with PTP, cases involving many other human platelet antigens (HPA) are also detected. PTP occurs almost exclusively in adults, and females outnumber males by a ratio of at least 5 to 1.

TESTS INCLUDED:

To demonstrate antibody in patient’s serum:
Platelet antibody detection and identification including alloantibodies reactive with alloantigens HPA-1a,1b; HPA-2a,2b; HPA-3a,3b; HPA-4a; HPA-5a,5b; HPA-15a,15b: and other specificities on GPIIb/IIIa, GPIa/IIa, GPIb/IX, and GPIV (CD36). Reactivity against Class I HLA antigens is also detected.

To determine patient’s platelet antigen type:
Platelet alloantigen genotyping including alleles of HPA-1 through 6, HPA-9 and HPA-15

METHOD:
Antibody Detection - Flow Cytometry, Platelet Antibody Bead Array (PABA), Monoclonal Antibody Immobilization of Platelet Antigen (MAIPA).
HPA Genotyping - PCR + fluorescent allele – specific hydrolysis probes.

SPECIMEN REQUIREMENTS:
10 mL of serum and 10 ml EDTA whole blood from patient

SHIPPING REQUIREMENTS:
Ship on an ice pack. Protect whole blood from freezing by wrapping in paper towels. Place the specimen and the test requisition into plastic bags and seal. Insert into an insulated container, place in a sturdy cardboard box, tape securely, and ship by overnight carrier. Ship the package in compliance with your overnight carrier guidelines. Label box with the following address:

Client Services/Platelet and Neutrophil Immunology Laboratory
BloodCenter of Wisconsin
638 N. 18th St.
Milwaukee, WI 53233
800-245-3117, ext. 6255

TURNAROUND TIME: 10 days

CPT CODES: 81400x8, 86022

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