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December 10, 1986

Philip J. Migliore, M.D.
Research Director
The Moran Foundation
Department of Pathology
Baylor College of Medicine
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Dear Phil,

Enclosed please find the progress report on "Platelet Crossmatch". (2-85-0015)
We hope to complete the study in about six months. We shall appreciate your extending the period of study.

Sincerely,



Abdus Saleem, M.D.
Department of Pathology

AS/pf
Enclosure

PROGRESS REPORT

We have tried Gudino and Miller's ELISA technique for platelet x-match with several modifications including 1) use of filter paper to retain platelets, 2) lysis of RBC in platelet rich plasma.

We performed the test with 10 controls (normal serum and normal platelets) which gave the expected negative results.

We performed the test with 10 patients sera. These patients were refractive to platelet transfusions. Our results were disappointing and not reproducible.

Recently Ortho has marketed a solid phase microtiter immunoassay technique for platelet crossmatch. In this method the microtiter plate wells are coated with an "antibody" to retain platelets. The patient serum is now added and the plate is incubated for 30 minutes at 37 C. If the serum has antibody against platelets, the antibody will stick on the surface of platelets. This antibody can be identified by coomb positive red cells. If the red cells stick on the platelet surface, the test is positive. If the red cells sink to the bottom of the well the test is negative.

Our preliminary experiments show that the test is promising. We have started the study with controls and patients and will keep you informed of the results.