

Method to Method Comparison

Purpose This procedure provides instructions for performing method to method comparison of gel to tube methodologies used in Children's Transfusion Service.

Policy Statements Gel and tube methods comparison studies will be performed twice a year with a minimum of one specimen for each of the following tests:

1. Indirect antibody testing
2. Direct antiglobulin testing
3. Anti A or Anti-B (infants)

Definitions

- A. Indirect antibody testing (IAT)-Antibody Screen
- B. Direct antiglobulin testing (DAT)

Related Documents [TSf 18.9.1 Correlation of Gel and Tube Testing](#)

Sample The use of fresh human samples is preferred over commercial control materials such as proficiency samples or reagents. Do not use results obtained in troubleshooting of samples with unexpected reactions.

Procedure

Step	Action
1	Perform routine gel testing per patient order.
2	Repeat testing using tube methodology.
3	Record interpretation results from each methodology as positive or negative on TSf 18.9.1 Correlation of Gel and Tube Testing
4	Forward form to Technical Specialist for review.
5	Maintain completed form in PT binder for the year.

Interpretation Acceptable correlation: Interpretation of reaction pattern as **Positive** or **Negative** by both methods.

Limitations An expected difference in strength of reactions between gel and tube methodologies, generally stronger in gel. Negative tube tests may be positive in the gel due to methodology.

References College of American Pathologist Accreditation program checklist, TRM .31450

Approval Workflow Transfusion Service/Laboratory Director

Version	Written/Revised by:	Effective Date:	Summary of Revisions
1	J Wenzel	6/18/2011	Initial Version