

ORIGINAL ARTICLE

Application of RhD Blood Group to Simulate Antibody Identification Test in Immunohematology Education

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SUMMARY

Background: Immunohematology skill education is an important part of the transfusion medicine professional training. We tried to solve the difficulty of obtaining suitable and sufficient positive samples in the immunohematology education.

Methods: Different identification panels and panel cells were created by RhD-positive red blood cells (RBCs) and RhD-negative RBCs, according to the underlying antibodies. Diluted anti-D reagent was used as simulated plasma for identification.

Results: The antibody identification of single antibody with dose-effect and two antibodies present at the same time were successfully simulated.

Conclusions: It is a practical and cheap method for antibody identification training to use RhD blood group, especially when positive samples are short.

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Supplementary Data

SUPPORTING INFORMATION

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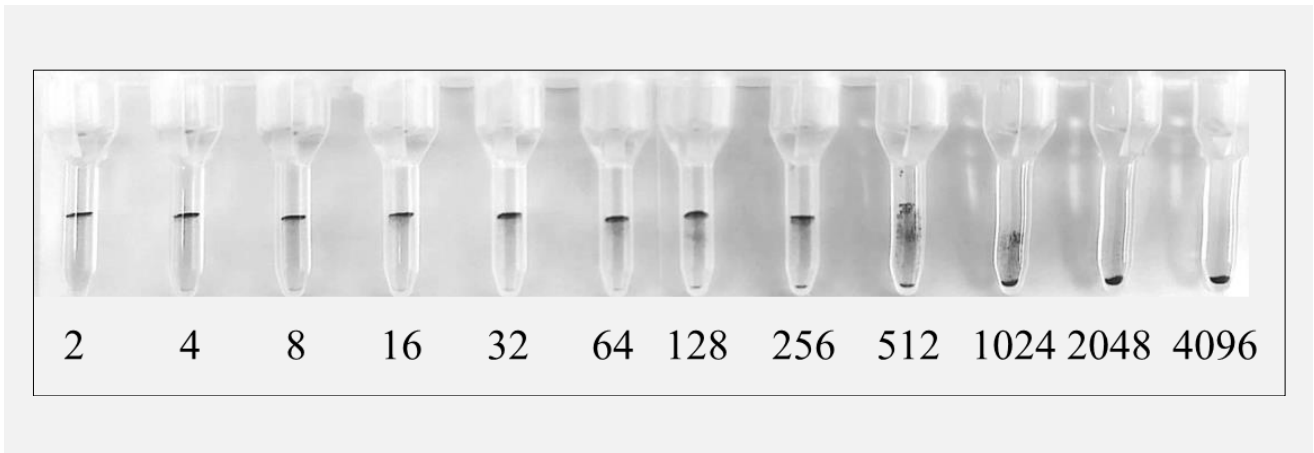


Figure S1. Reaction of *R2R2* RBCs with a double dilution of IgG anti-D.

The minimum dilution ratio of 2+ agglutination intensity was 512.



Figure S2. *R2R2*, *R1R1* and *R0R0* RBCs with anti-D diluted 512 reaction.