

UNUSUAL PRESENTATION OF ANTI-C ALONG WITH ANTIGEN C

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INTRODUCTION

Rh blood group system is a complex blood group system. Rh antibodies are produced in Rh negative individuals following exposure to foreign RBCs post transfusion or pregnancy. Most often D-VI phenotype cases are reported; Anti-C is scarcely reported in the literature.

AIMS & OBJECTIVE

The aim of this case report is to present the unusual findings of the C variant in Rh blood group system.

MATERIALS AND METHODS

The immunohematology work up is done on fully automated immunohematology analyzer Qwalys-EVO by Diagast, France and Automax-80 by Tulip Diagnostics.

THE CASE REPORT

A 70 years old, male having a complain of septicemia requested for 1 unit of Red Blood Cells Transfusion. The patients' blood group is O positive and Rh and Kell phenotype is D+C+c-E-e+K-.There was unusual mixed field presentation in Antigen-C (Fig.-1).

On crossmatching with same phenotype all the units were showing

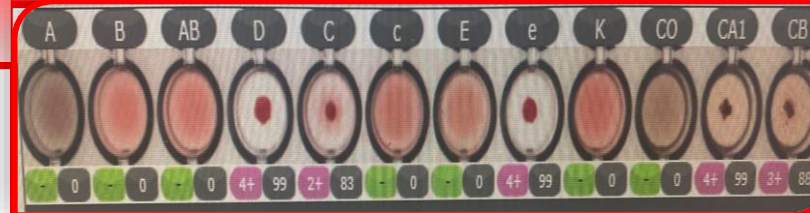


Fig.-1

To rule out Anti-G antibody crossmatching with D+C+c+E-e+K-phenotype was done which was compatible ruling out the possibility of Anti-C+D or Anti-G antibody. (Fig.-2).

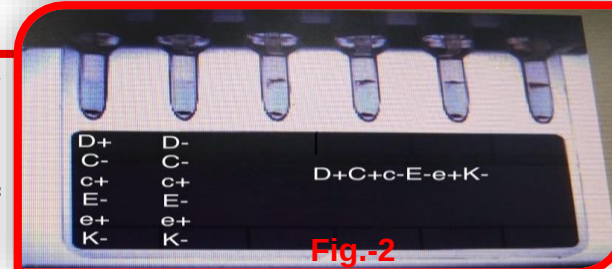


Fig.-2

incompatibility with mixed field presentations. Where as, crossmatching with D-C-c+E-e+K- phenotype showed Compatibility.

Hence , it was an unusual presentation of Anti-C with Antigen C. The treating clinician was informed about the presentation and need for blood transfusion was reassessed; as this transfusion may lead to alloimmunization with anti-c.

CONCLUSION

Rh and Kell Phenotyping facility is a boon to blood transfusion services which ensures transfusion safety to patients.

REFERENCE

1. Harmening DM, editor. Modern blood banking and transfusion practices. 5. Philadelphia: F A Davis Company; 2005.