

Approach to a Pregnant Woman with Anti D + Anti C Reactivity Pattern: A Diagnostic Conundrum

PREETI RAJ¹, GEETIKA SHARMA², DEEKSHA SINGH³, JYOTI GARG⁴

ABSTRACT

The Rhesus G antigen is present on all RBCs that are C+ and also on most D+ RBCs. Due to this co-distribution of G with either C or D antigen, it mimics a reactivity pattern of anti C + anti D on Indirect Antiglobulin Test (IAT), though the role of Anti G in causing Hemolytic Disease of Newborn (HDN) is controversial. The differentiation of anti D, anti C, and anti G is essential particularly in pregnant females. We hereby report a rare case of anti G with anti D and anti C in a pregnant woman with emphasis on approach to identify anti D+C+G and its implications.

Keywords: Alloimmunisation, Anti D, Anti C, Anti G, Haemolytic, Irregular erythrocyte antibodies, Pregnancy.

CASE REPORT

A 32-year-old, G2P1L1 female with 31 weeks of gestation presented in Obstetric Outpatient Department with a positive IAT reported from outside laboratory. The patient was Rh negative & thus suspected of Rh isoimmunisation. However, patient had past history of receiving single dose of anti D prophylaxis, 4000U during first pregnancy. Previous pregnancy led to full term normal delivery of healthy child with no history of neonatal anemia or jaundice. There was no significant medical history or obstetric history of any still births, abortions or medical termination of pregnancy. There was no past history of blood transfusion. Patient had not received anti D in this pregnancy so far.

In view of positive IAT, Doppler ultrasound was done which revealed Middle Cerebral Artery Peak Systolic Velocity (MCA-PSV) > 1.5 Multiples of Median (MOM); suggestive of severe fetal anemia. The patient was planned for Intrauterine Transfusion (IUT), however multiple units of O Rh negative leukoreduced packed RBCs put up for cross-match were found to be incompatible with maternal serum. Hence, the patient was referred to our Regional Blood Transfusion Centre (RBTIC) for immunohaematology work-up.

First of all, ABO blood grouping and D typing of patient and her husband were performed. Patient's forward and reverse blood grouping done at room temperature (22°C) showed discrepancy. Following which, the patient's blood sample was collected in EDTA vial under strict warm conditions. The RBCs and serum were separated immediately by centrifugation at 2000 rpm for 5 minutes. The cells were washed multiple times with warm normal saline. Extended forward and reverse blood grouping was done at 22°C,

37°C and 4°C by tube method. The blood group was confirmed as AB negative at 4°C. [Table/Fig-1] Patient was further confirmed to be negative for weak D by IAT using tube method and subsequently by column agglutination technology (Diamed gel card method, Diamed, Switzerland). Autocontrols were negative at 3 temperatures ruling out autoantibody. Husband's blood group was A Rh positive.

Also, polyspecific Direct Antiglobulin Test (DAT- anti IgG and C3d) of the patient was negative. A commercially available three-cell antigen panel (ID-DiaCell 1-3-III Asia, Diamed, Switzerland) was used for antibody screening by IAT. The patient's serum was reacted with reagent RBCs using LISS/Coombs ID-cards, at 37°C in AHG (anti human globulin) phase. The cards were incubated for 15 minutes and then centrifuged in ID-centrifuge for 10 minutes. The antibody screening panel was positive showing pan-agglutination. However, IAT by 3-cell panel was negative at 4°C in saline phase. An extended 11-cell panel ID-DiaPanel, DiaMed [Table/Fig-2] was used for antibody identification by IAT using ID-cards at 37°C. The reactions were suggestive of anti C + anti D antibodies [Table/Fig-3].

Rh/Kell/extended antigen profile of patient and her husband was done by using column agglutination technology (DiaClon gel card, Diamed Switzerland). Husband was strongly positive for C antigen whereas the patient was negative for it. [Table/Fig-4] Therefore, possibility of anti D + anti C with or without anti G could not be excluded. Meanwhile, a unit of irradiated, O Rh negative, C negative leukoreduced packed RBCs (haematocrit of 80%) was found to be compatible with maternal serum and was successfully transfused in-

Temperature [°C]	Forward Grouping					Reverse Grouping				
	Anti-A	Anti-B	Anti-D 1	Anti-D 2	NS*	B (G)	A (ce-Bs)	B (ce-Bs)	O (ce-Bs)	AD [†]
4	4+	4+	Neg [‡]	Neg	Neg	AB Neg	Neg	Neg	Neg	AB Neg
22	4+	4+	Neg	Neg	Neg	AB Neg	4+	4+	4+	Neg
37	3+	4+	Neg	Neg	Neg	AB Neg	2+	2+	2+	Neg

Panel	Antibodies										
	1	2	3	4	5	6	7	8	9	10	11
1	+	+	+	+	+	+	+	+	+	+	+
2	+	+	+	+	+	+	+	+	+	+	+
3	+	+	+	+	+	+	+	+	+	+	+
4	+	+	+	+	+	+	+	+	+	+	+
5	+	+	+	+	+	+	+	+	+	+	+
6	+	+	+	+	+	+	+	+	+	+	+
7	+	+	+	+	+	+	+	+	+	+	+
8	+	+	+	+	+	+	+	+	+	+	+
9	+	+	+	+	+	+	+	+	+	+	+
10	+	+	+	+	+	+	+	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	+

[Table/Fig-1]: Extended blood grouping results of the patient.
NS: normal saline, TRG: blood group, AD: autocontrol, Neg: Negative

[Table/Fig-2]: Phenotype of reagent red cells of extended 11-cell panel (DiaMed 11 cell ID-DiaPanel) used for antibody identification by IAT.

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Advances in Parasitology David Rollinson, S.I. Hay, 2011-12-20 First published in 1963 Advances in Parasitology contains comprehensive and up to date reviews in all areas of interest in contemporary parasitology Advances in Parasitology includes medical studies on parasites of major influence such as Plasmodium falciparum and trypanosomes The series also contains reviews of more traditional areas such as zoology taxonomy and life history which shape current thinking and applications Eclectic volumes are supplemented by thematic volumes on various topics including control of human parasitic diseases and global mapping of infectious diseases The 2009 impact factor is 6 231 Contributions from leading authorities and industry experts Informs and updates on all the latest developments in the field

Index Medicus, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Meyler's Side Effects of Drugs 15E Jeffrey K. Aronson, 2014-04-11 Building on the success of the 14 previous editions this remarkable reference has been extensively reorganized and expanded and now comprises almost 1 500 individual drug articles providing the most complete coverage of adverse reactions and interactions found anywhere Each article contains detailed and authoritative information about the adverse effects of each drug with

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Neurology and Pregnancy, 2020-07-29 *Neurology and Pregnancy* provides a comprehensive multidisciplinary guide to best practices for research and practicing neurologists as well as obstetricians and other specialists caring for women with an acute or chronic neurological disorder The book encompasses preconception care genetic counseling pregnancy in patients with chronic neurological disorders and acute pregnancy related neurological complications Postpartum care and complications including lactation concerns are also addressed as well as the long term effects of pregnancy and its complications on maternal brain health Vol 1 summarizes the complex neurophysiological changes in pregnancy from a basic and translational science perspective This includes neuroimaging principles of neuro obstetric critical care and ethical and medicolegal concerns describes normal fetal cerebral development and summarizes the management of the most common prenatal neurological diagnoses Vol 2 focuses on chronic neurological conditions in pregnancy such as epilepsy migraine and multiple sclerosis as well as acute neurological disorders including preeclampsia eclampsia ischemic and hemorrhagic stroke and CNS infections Each chapter introduction includes data on epidemiology when applicable In discussing management comments of safety profiles of medications preconceptionally during pregnancy and lactation are summarized Each chapter includes 1-2 illustrative cases Discusses neuroendocrine brain PNS and cerebrovascular changes in pregnancy Includes neurological care of the pregnant patient Covers neuroimaging and monitoring techniques Reviews common neurological complications with pregnancy Supplies illustrative case study examples

Emerging Challenges in the Diagnosis and Treatment of Autoimmune Encephalitis Morten Blaabjerg, Thomas Seifert-Held, Johann Sellner, 2019-07-31 The Research Topic entitled Emerging Challenges in the Diagnosis and Treatment of Autoimmune Encephalitis covers recent developments in an rapidly expanding field We believe that the present Frontiers Research Topic eBook will provide the interested readers with updated knowledge on autoimmune encephalitis including real life clinical experience in diagnostic challenges differential diagnosis and treatment of patients with autoimmune encephalitis

Index Veterinarius ,2006 **Sovereignty, Technology and Governance after COVID-19** Francisco de Abreu

Duarte,Francesca Palmiotto Ettorre,2022-09-22 This book imagines how Europe might re organise and re group after the COVID 19 crisis by assessing its effectiveness when responding to it For this purpose it directs its focus on i sovereignty challenges ii technological challenges and iii governance challenges These three challenges do not present hermetic legal problems they intersect and connect on many levels The book shows this by examining the relationship between public and private power and illustrating how the rise of technocratic authority is deeply connected to the choice of technological solutions It illustrates how constitutional decisions taken during states of emergency give rise to private governance challenges related to cybersecurity and data protection Experts from the fields of EU governance data protection and technology explore these questions to provide answers to how the EU might develop in the future **Scott-Brown's**

Otorhinolaryngology and Head and Neck Surgery, Eighth Edition John Watkinson,Ray Clarke,2018-07-17 Scott Brown s Otorhinolaryngology is used the world over as the definitive reference for trainee ENT surgeons audiologists and trainee head and neck surgeons as well as specialists who need detailed reliable and authoritative information on all aspects of ear nose and throat disease and treatment Key points accompanied by a fully searchable electronic edition making it more accessible containing the same content as the print edition with operative videos and references linked to Medline highly illustrated in colour throughout to aid understanding updated by an international team of editors and contributors evidence based guidelines will help you in your clinical practice features include key points best clinical practice guidelines details of the search strategies used to prepare the material and suggestions for future research new Endocrine section Scott Brown will provide trainee surgeons ENT and Head and Neck audiologists and ENT physicians with quick access to relevant information about clinical conditions and provide them with a starting point for further research The accompanying electronic edition enhanced with operative videos will enable both easy reference and accessibility on the move

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