

ABID Case #11

Raw Serum panel (Note: Coombs' control cell reactions aren't shown but were performed and were as expected.)

Lot #0320	Rh	MNSs						P	Lewis		Lutheran		Kell				Duffy		Kidd		Xg	LISS					FICIN						
Cell	Rh	D	C	E	c	e	V	M	N	S	s	PI	Le ^a	Le ^b	Lu ^a	Lu ^b	K	k	Kp ^a	Js ^a	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Xg ^a	Cell	IS	RT	37	AHG	37	AHG	
1	r'r	0	+	0	+	+	0	+	+	+	+	+	+	0	0	+	0	+	0	0	+	0	+	+	+	1	0	0	0	0	0	0	0
2	R1R1w	+	+	0	0	+	0	+	+	0	+	+	+	0	0	+	0	+	0	0	+	+	0	+	+	2	0	0	0	1+	3+	3+	
3	R1R1	+	+	0	0	+	0	+	+	0	+	+	0	0	0	+	+	+	0	0	0	+	+	0	+	3	0	0	0	1+	3+	3+	
4	R2R2	+	0	+	+	0	0	+	+	+	+	0	+	0	0	+	0	+	0	0	+	+	+	+	+	4	0	0	0	2+	3+	3+	
5	r''r	0	0	+	+	+	0	+	0	+	0	0	+	0	+	+	0	+	0	0	+	+	+	+	+	5	0	0	0	vw+	3+	w+	
6	rr	0	0	0	+	+	+	0	+	0	+	+	0	+	0	+	0	+	0	0	0	0	+	+	+	6	0	0	0	0	0	0	
7	rr	0	0	0	+	+	0	0	+	+	+	0	0	+	0	+	+	+	0	0	0	+	+	0	+	7	0	0	0	0	w+	0	
8	rr	0	0	0	+	+	0	+	+	0	+	+	0	0	0	+	0	+	0	0	0	0	+	0	+	8	0	0	0	0	w+	0	
9	rr	0	0	0	+	+	0	0	+	0	+	+	+	0	0	+	0	+	0	0	0	+	+	+	+	9	0	0	0	0	w+	0	
10	rr	0	0	0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	0	0	+	0	+	0	0	10	0	0	0	0	w+	0	
11	rr	0	0	0	+	+	0	+	0	+	+	0	+	+	0	+	0	+	0	0	0	+	+	0	+	11	0	0	0	0	w+	0	
AC																										AC	0	0	0	0	w+	0	

Additional cells

	Rh	MNSs						P	Lewis		Lutheran		Kell				Duffy		Kidd		Xg	LISS					FICIN							
Cell	Rh	D	C	E	c	e	V	M	N	S	s	PI	Le ^a	Le ^b	Lu ^a	Lu ^b	K	k	Kp ^a	Js ^a	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Xg ^a	IS	RT	37	AHG	CC	37	AHG	CC	
	r''r	0	0	+	+	+	0	+	0	+	+	0	0	+	0	+	0	+	0	0	0	+	+	+	+	0	0	0	vw+	2+	3+	w+		
	r''r	0	0	+	+	+	0	+	0	+	0	+	0	+	0	+	0	+	0	0	+	+	+	+	0	0	0	vw+		3+	w+			

Additional Testing

	Anti-D, IV		Anti-Go ^a	
	AHG	CC	AHG	CC
Pt. cells	0	2+	2+	
Pos Control	w+ (R1R1)		w+ (Go ^a pos)	
Neg control	0	2+	0	2+

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1. What antibody(ies) is present in this case?
2. What is the corresponding antigen phenotype? How is this possible?
3. How could your hypothesis be confirmed?
4. Discuss the variation in reaction strength with different test systems and antigen positive phenotypes.
5. Is this patient at risk for hemolytic transfusion reactions? Is her infant at risk for HDN?