

AIHA CASE #5

Plasma gel panel #2

Lot #8RB181		Rh system						Kell						Duffy		Kidd		Xg	Lewis		MNSs					P	Lutheran		Other		
Cell	Rh	D	C	E	c	e	V	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Xg ^a	Le ^a	Le ^b	S	s	M	N	P1	Lu ^a	Lu ^b	Typings	Cell	Gel	
12	rr	0	0	0	+	+	0	+	+	0	+	0	+	+	0	0	+	+	0	+	+	+	+	+	+	+s	0	+		12	0
13	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	0	0	0	+	+	0	+	0	+	+	0	+		13	0
14	rr	0	0	0	+	+	0	0	+	0	+	0	+	+	0	0	+	0	0	+	0	+	+	+	+	+	0	+		14	0
15	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	+	0	+	0	+	0	+	+	+	+	0	+	0	+		15	vw+	
16	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	+	+	0	+	0	+	+	0	+	0	+		16	vw+	
17	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	+	+	0	+	+	0	+	0	+	0	+		17	vw+	
18	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	+	+	0	+	+	0	+	0	+	+	0	+	0	+		18	w+	
19	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	+s	0	+		19	vw+	
20	RzR1	+	+	+	0	+	0	0	+	0	+	0	+	0	+	0	+	0	0	+	+	+	+	0	+	0	+		20	1+	
21	r'r	0	+	0	+	+	0	+	+	0	+	0	+	0	+	0	+	0	0	+	+	+	+	0	+	0	+		21	w+	
22	R1r	+	+	0	+	+	0	+	0	0	+	0	+	+	0	+	0	+	+	0	0	+	+	+	0	0	+		22	vw+	
Patient																													AC		

Eluate and PEG panel

Lot #12141		Rh system						Kell						Duffy		Kidd		Lewis		P	MNSs					Lutheran		Xg	Other		Eluate	Plasma
Cell	Rh	D	C	c	E	e	V	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P1	M	N	S	s	Lu ^a	Lu ^b	Xg ^a	Typings	Cell	Gel	PEG/AHG	
1	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	0	+	0	+	+	0	+	+	0	+	+	0	+	+		1	vw+	1+	
2	R1wR1	+	+	0	0	+	0	+	+	0	+	0	+	0	+	+	+	0	+	+	0	+	0	+	0	+	+	C ^w	2	vw+	1+	
3	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	0	+	+	0	0	+	+	0	+	0	+	0	+	+	Co(b+)	3	vw+	1+	
4	Ror	+	0	+	0	+	0	0	+	0	+	0	+	0	0	+	+	+	0	+	0	+	0	+	0	+	+		4	vw+	w+	
5	r'wr	0	+	+	0	+	0	0	+	0	+	0	+	+	+	+	0	0	+	0	+	0	0	+	0	+	+		5	vw+	1+	
6	r''r	0	0	+	+	+	0	0	+	0	+	0	+	0	+	+	0	0	+	+	+	0	+	+	+	+	C ^w , Ch-	6	vw+	w+		
7	rr	0	0	+	0	+	0	+	+	0	+	0	+	0	+	+	+	0	+	0	+	0	+	+	0	+	+		7	vw+	vw+	
8	rr	0	0	+	0	+	0	0	+	0	+	0	+	+	0	+	0	+	0	+	+	+	+	+	0	+	+		8	vw+	vw+	
9	rr	0	0	+	0	+	0	0	+	0	+	+	+	0	0	+	0	0	0	+	+	0	0	+	0	+	+		9	vw+	w+	
10	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	+	0	+	+	0	+	+	+	0	0	+	0	+	+		10	vw+	w+	
11	r''r	0	0	+	+	+	0	0	+	0	+	0	+	+	+	0	+	0	+	+	0	+	0	+	0	+	0	Co ^{b+} , I-	11	vw+	vw+	
																											Last wash	B cell	0			

LISS/tube antibody screen				
	LS.	37°	AHG	CCC
SCI	0	0	0	2+
SCII	0	0	0	2+

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Questions:

1. What is the specificity of this patient's antibodies? Are they allo- or autoantibodies or both? Would an adsorption procedure help determine this?
2. Is the extended Rh phenotype valid? What does it show? How could you determine a true Rh phenotype for the patient?
3. How would you provide safe RBC transfusion for this patient?