

AIHA CASE #9

Eluate Panel

8RA178		Rh system						Kell						Duffy		Kidd		Xg	Lewis		MNSs				P	Lutheran		Other	Last wash				
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	AHG		AHG	
1	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	+	+	0	+	0	0	0	+	+		1	3+	BCell	0
2	R1wR1	+	+	0	0	+	0	+	+	0	+	0	+	+	+	+	+	+	0	+	+	+	0	+	0	+	0	C ^w	2	3+			
3	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	+	0	+	+	+	+	0	+	0	+	+		3	3+			
4	Ror	+	0	+	0	+	0	0	+	0	+	0	+	0	0	+	0	0	0	+	+	0	0	0	0	0	+	0	Bg(a+)	4	3+		
5	r'r	0	+	+	0	+	0	0	+	0	+	0	+	+	0	0	+	0	+	+	+	0	+	0	0	+	+		5	3+			
6	r''r	0	0	+	+	+	0	+	0	0	+	0	+	+	0	0	+	0	+	+	+	+	0	+	0	+	+		6	3+			
7	r̄r	0	0	+	0	+	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	+	Bg(a+)	7	3+			
8	rr	0	0	+	0	+	0	0	+	0	+	0	+	+	0	+	0	0	+	+	+	0	+	0	0	+	0		8	3+			
9	rr	0	0	+	0	+	0	0	+	0	+	0	+	+	+	0	+	+	0	0	0	+	0	+	0	+	+		9	3+			
10	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	+	0	+	+	0	+	+	+	+	+	+	0	+	+		10	3+			
11	R2Rh32	+	w	+	+	w	0	0	+	0	+	0	+	0	0	+	0	0	+	+	0	+	+	0	0	+	+		11	3+			
Patient																												AC					

No specimen remained for further workup.

Questions:

- Why might there be a discrepancy between the initial and repeat DAT results? (Hint: check the DAT procedure or the manufacturer's package insert.) (Hint #2: it was a busy morning.) Why was the evening shift supervisor prompted to repeat this test?
- What antibody(ies) is(are) present? What assumption made by the initial technologist led to the erroneous result? What does the warm autoadsorption show? Why did the autoadsorbed plasma react by the gel method but not by the LISS/tube or PEG tube methods? Can we make use of this observation?