

ABID CASE #31

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History: A 30 years old Chinese woman was admitted for a cholecystectomy to a Chinese Hospital in Hong Kong. She had received eight units of red cells, four units of whole blood-derived platelets and 4 units of FFP during a surgical procedure after a car accident six months earlier in Taiwan, at which time her antibody screen was negative.

ABO and Rh Typing

<A	<B	A1 cells	B cells	6% alb	<D	<D/AHG	CCC	Interp
4+	0	0	3+	0	4+			

Antibody Screen (IMMUCOR #41059, "Asian Type")

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	Le ^a	Le ^b	P1	M	N	S	s	Lu ^a	Lu ^b	Xg ^a	Mi ^a	LISS		
																													37°	AHG	CC
SCI	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	+	+	0	+	0	+	0	+	0	0	2+	
SCII	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	0	+	+	0	+	+	+	+	0	0	0	0	0	+	0	0	2+	
SCIII	R1R2	+	+	+	+	+	0	0	+	0	+	0	+	+	+	0	+	0	+	0	+	+	+	0	+	0	+	0	+	3+	

Questions:

1. How would you interpret the initial test results? What do you want to do next?

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The patient's plasma was tested against an antibody identification panel by the same method (LISS/tube, AHG phase) which it had been reactive in the antibody screen.

Initial Panel

8RA121		Rh System						Kell						Duffy		Kidd		Xg	Lewis		MNSs				P	Lutheran		Other	LISS			
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	PI	Lu ^a	Lu ^b	Typings	Cell	AHG	CC	
1	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	+	+	+	0	+	0	+	0	+	+	+	+	+	0	+	C ^w	1	0	2+
2	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	+	+	0	+	+	0	0	+	0	+	+	+	0	0	+		2	0	2+
3	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	0	+	+	+	0	0	+	+	+	+	+	+w	0	+		3	2+		
4	Ror	+	0	0	+	+	+	0	+	0	+	0	+	0	0	+	0	0	0	0	0	+	+	+	+s	0	+		4	0	2+	
5	r'r	0	+	0	+	+	0	0	+	0	+	0	+	+	+	+	0	+	0	+	0	+	0	+	+	0	+		5	0	2+	
6	r''r	0	0	+	+	+	0	0	+	0	+	0	+	+	0	+	+	+	+	0	+	+	+	0	0	0	+		6	2+		
7	rr	0	0	0	+	+	0	+	+	0	+	0	+	0	+	+	0	+	0	+	+	+	+	+	+s	0	+		7	0	2+	
8	rr	0	0	0	+	+	0	0	+	0	+	0	+	+	0	0	+	+	0	+	0	+	0	+	+	0	+		8	0	2+	
9	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	+	+	+	0	+	0	+	0	+	+	0	+		9	0	2+
10	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	+	+	0	0	+	+	+	0	0	0	+		10	0	2+	
11	R1R2	+	+	+	+	+	0	+	+	0	+	0	+	0	+	0	+	+	+	0	+	+	+	0	0	+	+		11	2+		
Patient																													AC	0	2+	

Question:

- Based on the results of the antibody detection test and initial panel, what antibody(ies) do you suspect? Is any further workup needed to prove your hypothesis? Is there any hint that this might not be the entire story?

