

ABID CASE #30:

Questions:

1. What is the identity of this antibody? Is it proven? Which reaction is anomalous? How might you explain this reaction?
2. Does this antibody cause hemolytic transfusion reactions? Hemolytic disease of the fetus and newborn?
3. What is the titer in this case? (Hint: what would the titer be if we used the LISS IAT as our titrating system?) How would you follow this pregnancy?
4. What is the biochemistry of this antigen? Show the reactions you would expect for the antibodies anti-Ce and anti-cE in the following panel.

Lot#	Rh system	Kell						Duffy		Kidd		Xg	Lewis		MNSs				P	Lutheran		Other Typings	Cell	>cE	>Ce								
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						
1	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	+	0	+	+	+	0	+	+	+	0	+	0	0	+			1			
2	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	+	+	+	+	0	0	0	+	0	+	0	+	0	+			2			
Bg	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	0	+	+	+	+	0	0	+	+	+	+	+	+	0	+			3		
Bg	Ror	+	0	0	+	+	+	0	+	0	+	0	+	0	0	+	0	+	+	0	0	+	0	+	+	+	0	+			4		
5	r'r	0	+	0	+	+	0	0	+	0	+	0	+	+	0	0	+	+	0	+	0	+	+	+	+	+	0	+			5		
6	r''r	0	0	+	+	+	0	0	+	0	+	0	+	+	0	0	+	+	0	+	+	+	+	+	+	+	0	+			6		
7	rr	0	0	0	+	+	0	+	+	0	+	0	+	0	+	+	+	+	0	+	0	+	+	+	0	+	+			7			
8	rr	0	0	0	+	+	0	0	+	0	+	0	+	+	0	+	0	+	+	0	+	+	+	+	+	0	+			8			
9	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	0	+	0	0	+	0	+	0	+	+	+	0	+			9		
10	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	+	+	0	+	+	0	+	0	+	+	0	+			10		
11	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	0	+	+	+	0	0	+	0	+	0	+	+	+	0	+			11		
Patient																														AC			