

**HDN ABID CASE # 2** Case Study by Jim Perkins MD (©, 2009)

**History:** A 42 year old woman came into the hospital in labor. She had received Rh immune globulin (RhIG) 11 weeks earlier. A type-and-screen was ordered.

**ABO and Rh Typing**

<A	<B	A1 cells	B cells	6% alb	<D	<D/AHG	CCC	Interp
4+	4+	0	0	0	0	0	2+	AB neg

**Antibody Screen**

	Gel
OI	0
OII	w+

**Direct Antiglobulin Test**

	Poly	IgG	<C3
AHG	0		
CCC	2+		

**Intial Panel**

Lot# 8RA188	Rh system							Kell					Duffy		Kidd		Xg	Lewis		MNSs				P	Lutheran		Other						
Cell	Rh	D	C	E	c	e	V	K	k	Kp <sup>a</sup>	Kp <sup>b</sup>	Js <sup>a</sup>	Js <sup>b</sup>	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	Xg <sup>a</sup>	Le <sup>a</sup>	Le <sup>b</sup>	S	s	M	N	P1	Lu <sup>a</sup>	Lu <sup>b</sup>	Typings	Cell	Gel			
1	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	+	+	0	+	C <sup>w</sup>	1			
2	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	+	0	+	0	0	0	0	+	0	+	+	+	+s	0	+		2			
3	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	+	+	0	+	0	+	0	+	+	+	0	+		3	w+		
4	Ror	+	0	0	+	+	0	0	+	0	+	0	+	0	0	+	0	+	0	0	0	+	+	+	+	+s	+	+		4			
5	r'r	0	+	0	+	+	0	+	+	0	+	0	+	0	+	+	0	+	0	+	+	+	+	+	0	+s	+	+		5	0		
6	r''r	0	0	+	+	+	0	0	+	0	+	0	+	0	+	+	0	+	+	0	0	+	0	+	0	0	+		6	0			
7	rr	0	0	0	+	+	0	+	+	0	+	0	+	0	+	+	+	+	0	+	0	+	+	+	+	+s	0	+		7	0		
8	rr	0	0	0	+	+	0	0	+	0	+	0	+	+	+	0	+	0	+	0	+	+	0	+	+	+s	0	+		8	0		
9	rr	0	0	0	+	+	0	0	+	0	+	0	+	+	0	+	0	0	+	0	+	0	+	0	+	+s	0	+		9	0		
10	rr	0	0	0	+	+	0	0	+	0	+	0	+	+	0	+	0	+	0	+	+	0	+	0	0	0	0	+		10			
11	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	0	0	+	0	+	+	+	0	+	C <sup>w</sup>	11			
Patient																													AC				

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1. What is the specificity of the antibody?
2. Is any further workup needed to prove it?
3. Why aren't all of the antigen-positive cells reacting? (Hint: What cells have the strongest expression of the antigen?)
4. When she delivers, is this patient a candidate for RhIG? If so, what other testing should be done?