

ABID CASE #22 Case Study by Jim Perkins MD (©, 2009)

History: This patient was an 84 year old woman admitted for a fractured distal femur after a fall. The x-ray suggested that it might be a pathologic fracture, and marrow tissue obtained at the time of open reduction and internal fixation contained large B cell malignant lymphoma. She denied transfusion.

ABO and Rh Typing

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

Antibody Screen

	Gel
OI	w+
OII	0

Direct Antiglobulin Test

	Poly	IgG	<C3
AHG	0		
CCC	2+		

Initial Panel

Lot# 8RA175		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			
1	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	+	0	+	0	+	0	+	+	+	+	+	0	0	+	C ^w +	1	1+			
2	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	+	+	0	+		2	1+			
3	R2R2	+	0	+	+	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	+		4	1+			
5	r'r	0	+	0	+	+	0	0	+	0	+	0	+	+	0	0	+	0	0	+	+	+	+	0	0	0	+		5	vw+			
6	r''r	0	0	+	+	+	0	0	+	0	+	0	+	0	+	+	0	0	0	+	0	+	+	0	+	0	+		6	vw+			
7	rr	0	0	0	+	+	0	+	+	0	+	0	+	0	+	+	0	0	0	+	0	+	0	+	0	0	+		7	w+			
8	rr	0	0	0	+	+	0	0	+	0	+	0	+	+	0	+	0	+	+	0	+	+	+	+	+	0	+		8	w+			
9	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	0	0	0	+	0	+	0	+	0	0	+		9	vw+			
10	rr	0	0	0	+	+	0	0	+	0	+	0	+	+	0	0	+	0	0	+	0	+	0	+	0	0	+		10	vw+			
11	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	0	+	+	+	+	0	+	+	+	+	0	+	0	+		11	1+			
Patient																													AC				

PEG/tube panel

Lot #38467		Rh system						Kell						Duffy		Kidd		Lewis		P	MNSs				Lutheran		Xg	Other Typings	PEG/AHG			
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		Cell	Raw	Urine neut.*	Saline control
1	RzR1	+	+	0	+	+	0	0	+	0	+	0	+	+	0	0	+	+	+	+	0	0	+	0	+	0		1	vw+ ^{mf} *	0	vw+ ^{mf}	
2	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	0	+	+	+	0	+	+	+	0	+	0	0	+	0	C ^w	2	vw+ ^{mf}	0	vw+ ^{mf}
3	R2R2	+	0	+	+	0	0	+	+	0	+	0	+	+	+	+	+	0	+	+	+	0	0	+	0	+	+	3	vw+ ^{mf}	0	vw+ ^{mf}	
4	Ror	+	0	+	0	+	+	0	+	0	+	0	+	0	0	+	0	0	+	+	0	+	0	0	0	+	+	4	vw+ ^{mf}	0	vw+ ^{mf}	
5	r'r	0	+	+	0	+	0	0	+	0	+	0	+	+	+	+	0	+	0	+	+	+	+	+	0	+	0	5	vw+ ^{mf}	0	vw+ ^{mf}	
6	r'r	0	0	+	+	+	0	0	+	0	+	0	+	+	+	0	+	0	+	0	+	+	+	+	0	+	+	6	vw+ ^{mf}	0	vw+ ^{mf}	
7	rr	0	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	+	+	+	0	+	0	+	+	7	vw+ ^{mf}	0	vw+ ^{mf}	
8	rr	0	0	+	0	+	0	0	+	0	+	0	+	+	0	0	+	0	+	+	+	0	+	+	0	+	+	8	vw+ ^{mf}	0	vw+ ^{mf}	
9	rr	0	0	+	0	+	0	0	+	0	+	0	+	+	+	0	+	+	0	0	0	+	0	+	0	+	+	9				
10	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	0	+	+	+	0	+	0	0	+	+	+	0	+	+	10				
11	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	0	+	+	+	0	+	+	+	+	0	+	0	+	+	Di(a+b-)	11			
Patient																												AC				

*mf = mixed field reactivity

Additional testing; 2 drops saline-suspended RBCs./tube

	I.S.	R.T.	37°/30'	AHG	CC
OI	0	0	0	0	2+
OII	0	0	0	0	2+
AC	0	0	0	0	2+
Unit #1	0	0	0	0	2+
Unit #2	0	0	0	0	2+

