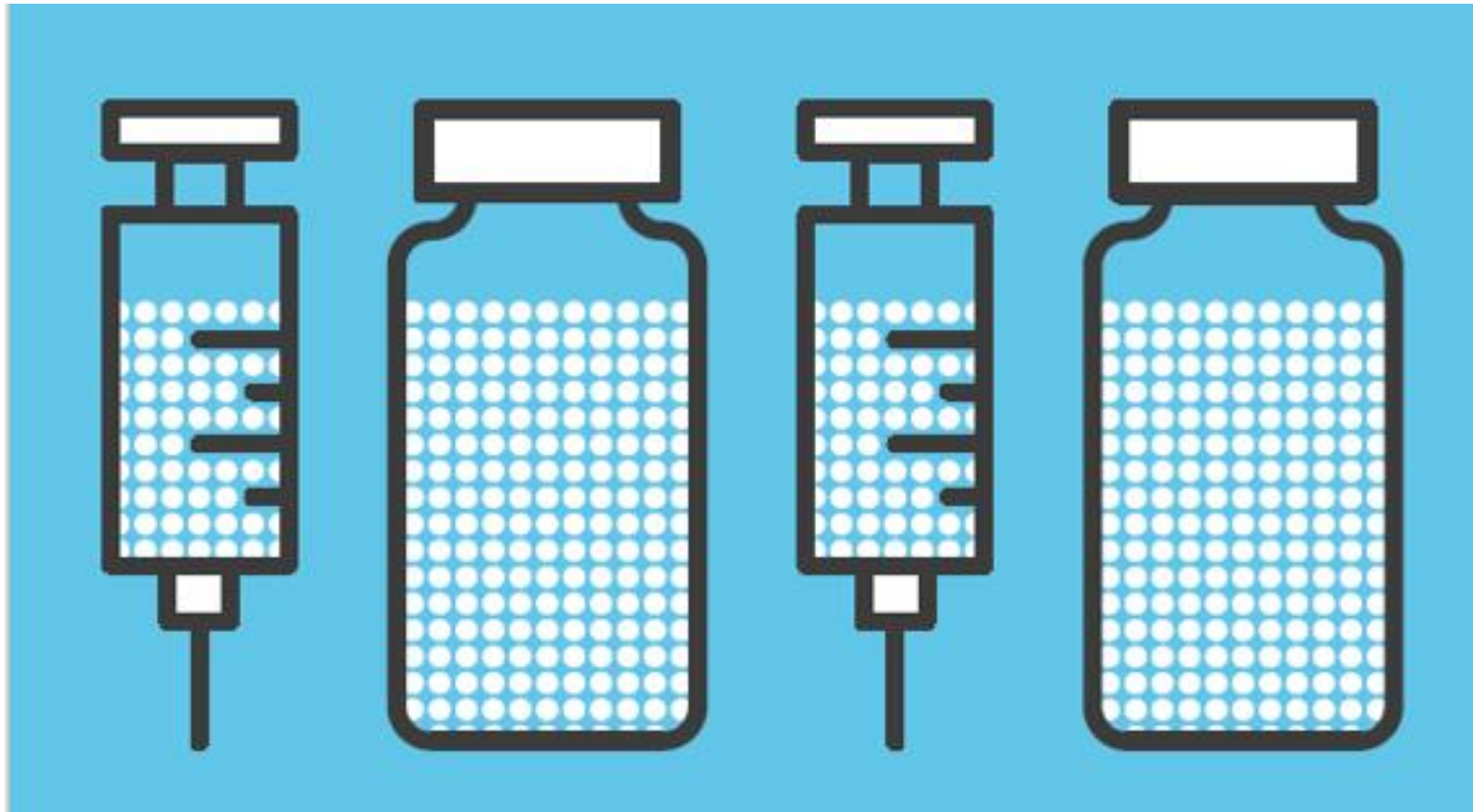


UK NEQAS

Blood Transfusion Laboratory Practice



A classic case...

Katy Veale
UK NEQAS BTLP

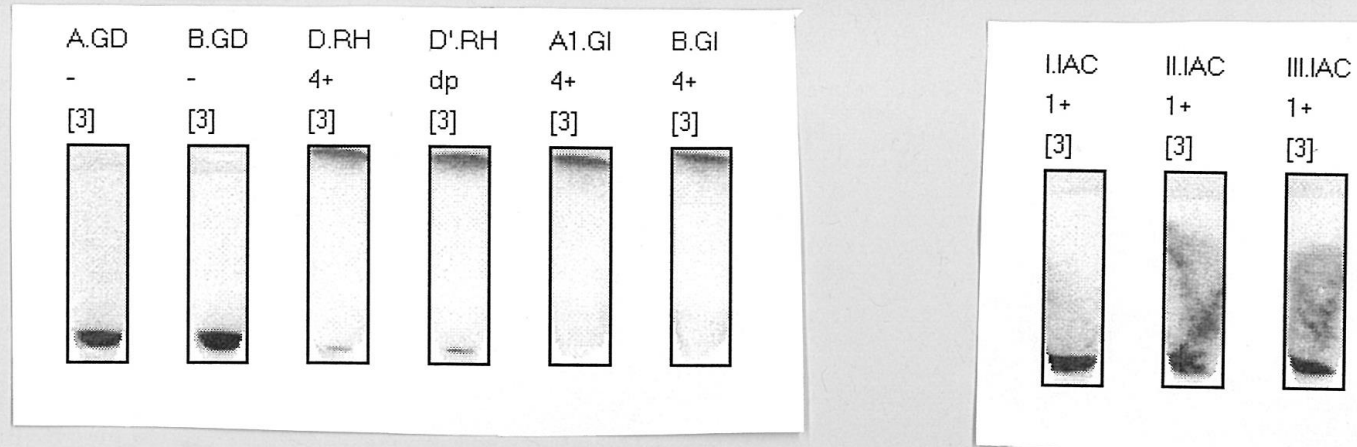
Complicated Antibody ID

- Case from 2013
 - @ Charing Cross
- Classic presentation of...
 - Still interesting
 - A few votes
 - Would I do anything different today?

Patient

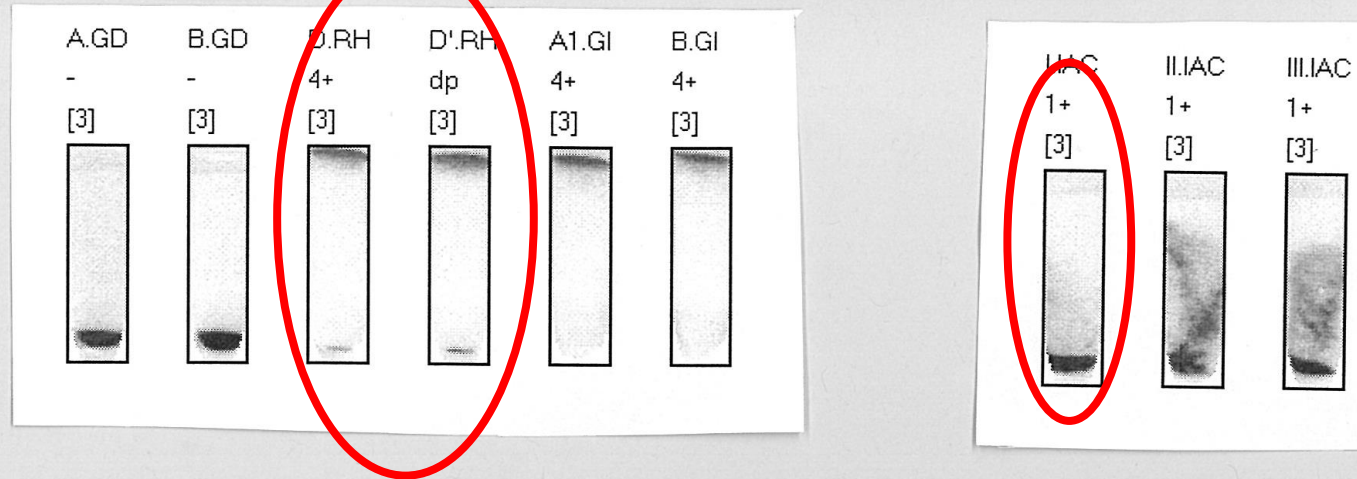
- 46 year old female
- O Positive
- Known Anti-Fy^a+E since 2006
- Both antibodies detected 13 days ago
- Last transfused 13 days ago – 2 x Orr K- Fy(a-)
- Respiratory ward - Pre-op

Initial Results



Rh-hr			Spender Donor Donneur Donatore Donante Dador	Rh-hr						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.	
				D	C	E	c	e	C ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P ₁	M	N	S	s	Lu ^a	Lu ^b
CCC ^W D.ee	R ₁ ^W R ₁	477290	+	+	0	0	+	+	0	+	0	+	nt	nt	0	+	0	+	0	+	+	0	+	0	+	0	+	
ccD.EE	R ₂ R ₂	296548	+	0	+	+	0	0	0	+	0	+	nt	nt	+	0	+	0	+	0	+	+	+	+	+	0	+	
ccddee	rr	617876	0	0	0	+	+	0	+	+	0	+	nt	nt	+	+	+	0	0	+	+	+	0	+	0	0	+	

Initial Results



Rh-hr		Spender Donor Donneur Donatore Donante Dador	Rh-hr						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.	
			D	C	E	c	e	C ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P ₁	M	N	S	s	Lu ^a	Lu ^b
CCC ^w D.ee	R ₁ ^w R ₁	477290	+	+	0	0	+	+	0	+	0	+	nt	nt	0	+	0	+	0	+	+	0	+	0	+	0	+
ccD.EE	R ₂ R ₂	296548	+	0	+	+	0	0	0	+	0	+	nt	nt	+	0	+	0	+	0	+	+	+	+	+	0	+
ccddee	rr	617876	0	0	0	+	+	0	+	+	0	+	nt	nt	+	+	+	0	0	+	+	+	0	+	0	0	+

Panel Results

IVD		NBS REAGENTS		Panel 1	
Product	Lot No.	Product	Lot No.	Product	Lot No.
ID Panel in Alsevers	R144 3266	ID Panel Papainised in Alsevers	R154 3266	ID Panel in LISP	R146 3266
ID Panel in CellStab	R143 3266	ID Panel Papainised in CellStab	R153 3266	Expiry Date : 2013.03.07	

Patient's Name	Ref. No.	Sample No.	Conclusion
D.O.B.			Tested by AA Date 26/2/13

Unless otherwise indicated, all cells are positive for Kp^b and Lu^b and negative for Wr^a and Co^b.

Instructions for use can be found at http://www.blood.co.uk/hospitals/diagnostic_services/reagents/index.asp#Pro

	Rh	C	D	E	c	e	C ^w	M	N	S	s	P1	Lu ^a	K	k	Kp ^a	Le ^a	Le ^b	Fy ^a	Fy ^b	JK ^a	JK ^b	Other	AT	ENZ				
1	R ₁ ^w R ₁	+	+	0	0	+	+	+	0	0	+	1	0	0	+	0	0	+	+	0	+	0		1	2				
2	R ₁ R ₁	+	+	0	0	+	0	+	0	+	0	2	0	+	+	0	+	0	0	+	0	+		1	4				
3	R ₂ R ₂	0	+	+	+	0	0	0	+	0	+	4	0	0	+	0	0	+	+	0	0	+		1	4				
4	r'r	+	0	0	+	+	0	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		1	4				
5	r''r	0	0	+	+	+	0	+	0	+	0	1	0	0	+	0	+	0	0	+	+	0		0	4				
6	rr	0	0	0	+	+	0	+	+	0	+	1	0	+	0	0	0	+	0	+	+	0	Ch-	0	0				
7	rr	0	0	0	+	+	0	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		1	4				
8	rr	0	0	0	+	+	0	+	0	0	+	0	0	0	+	+	0	+	+	0	0	+		1	3				
9	rr	0	0	0	+	+	0	0	+	+	0	3	+	0	+	0	0	0	0	+	+	0		0	0				
10	rr	0	0	0	+	+	0	+	0	+	0	1	0	0	+	0	0	+	+	0	0	+		1	0				
																							ATO	1					

Panel Results

IVD		NBS REAGENTS		Panel 1	
Product	Lot No.	Product	Lot No.	Product	Lot No.
ID Panel in Alsevers	R144 3266	ID Panel Papainised in Alsevers	R154 3266	ID Panel in LISP	R146 3266
ID Panel in CellStab	R143 3266	ID Panel Papainised in CellStab	R153 3266	Expiry Date : 2013.03.07	

Patient's Name	Ref. No.	Sample No.	Conclusion
D.O.B.			Tested by AA Date 26/2/13

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Instructions for use can be found at http://www.blood.co.uk/hospitals/diagnostic_services/reagents/index.asp#10

	Rh	C	D	E	c	e	C ^w	M	N	S	s	P1	Lu ^a	K	k	Kp ^a	Le ^a	Le ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Other	1AT	ENZ					
1	R ₁ ^w R ₁	+	+	0	0	+	+	+	0	0	+	1	0	0	+	0	0	+	+	0	+	0		1	2					
2	R ₁ R ₁	+	+	0	0	+	0	+	0	+	0	2	0	+	+	0	+	0	0	+	0	+		1	4					
3	R ₂ R ₂	0	+	+	+	0	0	0	+	0	+	4	0	0	+	0	0	+	+	0	0	+		1	4					
4	r'r	+	0	0	+	+	0	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		1	4					
5	r''r	0	0	+	+	+	0	+	0	+	0	1	0	0	+	0	+	0	0	+	+	0		0	4					
6	rr	0	0	0	+	+	0	+	+	0	+	1	0	+	0	0	0	+	0	+	+	0	Ch-	0	0					
7	rr	0	0	0	+	+	0	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		1	4					
8	rr	0	0	0	+	+	0	+	0	0	+	0	0	0	+	+	0	+	+	0	0	+		1	3					
9	rr	0	0	0	+	+	0	0	+	+	0	3	+	0	+	0	0	0	0	+	+	0		0	0					
10	rr	0	0	0	+	+	0	+	0	+	0	1	0	0	+	0	0	+	+	0	0	+		1	0					
																							ATO	1						

VOTE

What is
the most
important
finding
here?

Pink =

extra

reactions
in enzyme

Blue =

extra

reactions
by IAT

Yellow =
positive
auto

White =

anti-E isn't
up in cell
5 by IAT

Panel Results

IVD		NBS REAGENTS		Panel 1	
Product	Lot No.	Product	Lot No.	Product	Lot No.
ID Panel in Alsevers	R144 3266	ID Panel Papainised in Alsevers	R154 3266	ID Panel in LISP	R146 3266
ID Panel in CellStab	R143 3266	ID Panel Papainised in CellStab	R153 3266	Expiry Date : 2013.03.07	

Patient's Name	Ref. No.	Sample No.	Conclusion
D.O.B.			Tested by AA Date 26/2/13

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	Rh	C	D	E	c	e	C ^w	M	N	S	s	P1	Lu ^a	K	k	Kp ^a	Le ^a	Le ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Other	IAT	ENZ					
1	R ₁ ^w R ₁	+	+	0	0	+	+	+	0	0	+	1	0	0	+	0	0	+	+	0	+	0		1	2					
2	R ₁ R ₁	+	+	0	0	+	0	+	0	+	0	2	0	+	+	0	+	0	0	+	0	+		1	4					
3	R ₂ R ₂	0	+	+	+	0	0	0	+	0	+	4	0	0	+	0	0	+	+	0	0	+		1	4					
4	r'r	+	0	0	+	+	0	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		1	4					
5	r''r	0	0	+	+	+	0	+	0	+	0	1	0	0	+	0	+	0	0	+	+	0		0	4					
6	rr	0	0	0	+	+	0	+	+	0	+	1	0	+	0	0	0	+	0	+	+	0	Ch-	0	0					
7	rr	0	0	0	+	+	0	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		1	4					
8	rr	0	0	0	+	+	0	+	0	0	+	0	0	0	+	+	0	+	+	0	0	+		1	3					
9	rr	0	0	0	+	+	0	0	+	+	0	3	+	0	+	0	0	0	0	+	+	0		0	0					
10	rr	0	0	0	+	+	0	+	0	+	0	1	0	0	+	0	0	+	+	0	+	0		1	0					
																								ATO	1					

What could be going on?

- Positive auto
- Transfused ~2 weeks ago
- Likely extra antibody(ies)

- What is it?

What could be going on?

Delayed Transfusion reaction

Likely new antibody?

- Clinically significant antibody?
- Further panels (patient is C-E-K-)
- VOTE – most likely antibody
 - anti-C
 - anti-C^w
 - anti-Jk^b

Multiple antibodies

Likely new antibody?

- Clinically significant antibody?
- Further panels (patient is C-E-K-)
- VOTE – most likely antibody
 - anti-C txd Orr K-
 - anti-C^w txd Orr K-
 - anti-Jk^b 2 week gap

Multiple antibodies

DAT results

- DAT = IgG 1+, C3d +/-
- Vote - next step
 - Request further samples
 - Get a clinician involved
 - Start crossmatching blood

Check previous units were E- Fy(a-)

Further panels



Set ID-DiaPanel: 45161.96.x (Japan: 4516.96.xx)
Set ID-DiaPanel P: 45171.96.x (Japan: 4517.96.xx)

LOT 06171.96.x – 06271.96.x
(Japan: 0617.96.xx – 0627.96.xx)
05361.96.x – 05461.96.x
(Japan: 0536.96.xx – 0546.96.xx)

2013.03.25
(Japan: 25.03.13)

V.I.P. Software: P82

ID-DiaPanel
ID-DiaPanel-P

Antigen-Tabelle / Antigen-Table / Table d'antigènes / Tabella antigenica / Tabla de antígenos / Tabela de antígenos
Antikörper-Identifizierung / Antibody identification / Identification d'anticorps / Identificazione anticorpale / Identificación del anticuerpo / Identificação do anticorpos

Rh-hr	Spender Donor Donneur Donatore Donante Dador	Rh-hr						Kell						Duffy		Kidd	Lewis	P	MNS				Luth.		Xg	Spez. Antigene Special types Antigènes part. Antigeni particolari Otros Antígenos Tipos especiais		Resultat / Result / Résultat / Risultato / Resultado / Resultado			Bemerkungen / Remarks / Remarques / Note Observaciones / Observações				
		D	C	E	c	e	C ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P _i	M	N	S	s	Lu ^a			Lu ^b	Xg ^a	♀ ♂		LISS / Coombs	Enzyme	4°C	
1	CCC ^W D. ee R ₁ ^W R ₁	240147	+	+	0	0	+	+	0	+	0	+	nt	nt	+	0	0	+	0	+	+	+	0	+	0	+	+			1	1	4			
2	CCD. ee R ₁ R ₁	817860	+	+	0	0	+	0	+	+	0	+	nt	nt	0	+	+	+	0	+	+	+	0	+	0	0	+	0			2	0	4		
3	ccD. EE R ₂ R ₂	254498	+	0	+	+	0	0	0	+	0	+	nt	nt	+	0	+	0	0	+	0	+	0	0	+	0	+	+	Bg(a+)		3	1	4		
4	Ccddee r' r	425475	0	+	0	+	+	0	0	+	0	+	nt	nt	+	+	0	+	+	0	+	+	+	+	+	0	+	+			4	1	4		
5	ccddEe r'' r	880738	0	0	+	+	+	0	0	+	0	+	nt	nt	0	+	0	+	0	+	+	+	0	0	+	0	+	0			5	1	4		
6	ccddee rr	173141	0	0	0	+	+	0	+	+	0	+	nt	nt	+	0	0	+	0	+	+	0	+	0	+	0	+	0			6	1	4		
7	ccddee rr	405566	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	+	0	+	0	0	+	0	+	0	+	+			7	0	0			
8	ccD. ee R ₀ r	020196	+	0	0	+	+	0	0	+	0	+	0	nt	0	0	+	0	+	0	+	+	0	0	+	0	+	+			8	0	0		
9	ccddee rr	241667	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	0	+	0	+	+	0	+	+	+	+	+	+	Vel ^w		9	1	4		
10	ccddee rr	001544	0	0	0	+	+	0	0	+	0	+	nt	nt	+	0	+	0	0	0	+	+	0	0	+	0	+	+			10	1	0		
11	ccddee rr	207390	0	0	0	+	+	0	0	+	+	+	nt	nt	+	+	+	0	0	0	+	+	0	0	+	0	+	0			11	2	0		

Further panels



Set ID-DiaPanel: 45161.96.x (Japan: 4516.96.xx)
Set ID-DiaPanel P: 45171.96.x (Japan: 4517.96.xx)

LOT

06171.96.x – 06271.96.x
(Japan: 0617.96.xx – 0627.96.xx)
05361.96.x – 05461.96.x
(Japan: 0536.96.xx – 0546.96.xx)

2013.03.25
(Japan: 25.03.13)

V.I.P. Software: P82

ID-DiaPanel
ID-DiaPanel-P

Antigen-Tabelle / Antigen-Table / Table d'antigènes / Tabella antigenica / Tabla de antígenos / Tabela de antígenos
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Rh-hr	Spender Donor Donneur Donatore Donante Dador	Rh-hr						Kell						Duffy		Kidd	Lewis	P	MNS				Luth.		Xg	Spez. Antigene Special types Antigènes part. Antigeni particolari Otros Antígenos Tipos especiais	Resultat / Result / Résultat / Risultato / Resultado / Resultado			Bemerkungen / Remarks / Remarques / Note Observaciones / Observações			
		D	C	E	c	e	C ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P ₁	M	N	S	s	Lu ^a		Lu ^b	Xg ^a	Xg ^b		LISS / Coombs	Enzyme	4°C
1	CCC ^W D.ee R ₁ ^W R ₁	240147	+	+	0	0	+	+	0	+	0	+	nt	nt	+	0	0	+	0	+	+	+	+	0	+	0	+	+		1	1	4	
2	CCD.ee R ₁ R ₁	817860	+	+	0	0	+	0	+	+	0	+	nt	nt	0	+	+	+	0	+	+	+	0	+	0	0	+	0		2	0	4	
3	ccD.EE R ₂ R ₂	254498																															
4	Ccddee r'r	425475	0	+	0	+	+	0	0	+	0	+	nt	nt	+	+	0	+	+	0	+	+	+	+	+	0	+	+		4	1	4	
5	ccddEe r''r	880738																															
6	ccddee rr	173141	0	0	0	+	+	0	+	+	0	+	nt	nt	+	0	0	+	0	+	+	0	+	0	+	0	+	0		6	1	4	
7	ccddee rr	405566	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	+	0	+	0	0	+	0	+	0	0	+	+		7	0	0	
8	ccD.ee R ₀ r	020196	+	0	0	+	+	0	0	+	0	+	0	nt	0	0	+	0	+	0	+	+	0	0	+	0	+	+		8	0	0	
9	ccddee rr	241667	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	0	+	0	+	+	0	+	+	+	+	+	+	Vel+ ^w	9	1	4	
10	ccddee rr	001544	0	0	0	+	+	0	0	+	0	+	nt	nt	+	0	+	0	0	0	+	+	0	0	+	0	+	+		10	1	0	
11	ccddee rr	207390	0	0	0	+	+	0	0	+	+	+	nt	nt	+	+	+	0	0	0	+	+	0	0	+	0	+	0		11	2	0	

Further panels



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2013.03.25
(Japan: 25.03.13)

V.I.P. Software: P82

ID-DiaPanel
ID-DiaPanel-P

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Rh-hr	Spender Donor Donneur Donatore Donante Dador	Rh-hr						Kell						Duffy		Kidd	Lewis	P	MNS				Luth.		Xg	Spez. Antigene Special types Antigènes part. Antigeni particolari Otros Antígenos Tipos especiais	Resultat / Result / Résultat / Risultato / Resultado / Resultado			Bemerkungen / Remarks / Remarques / Note Observaciones / Observações			
		D	C	E	c	e	C ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P ₁	M	N	S	s	Lu ^a		Lu ^b	Xg ^a	Xg ^b		LISS / Coombs	Enzyme	4°C
1	CCC ^W D.ee R ₁ ^W R ₁	240147	+	+	0	0	+	+	0	+	0	+	nt	nt	+	0	0	+	0	+	+	+	0	+	0	+	+		1	1	4		
2	CCD.ee R ₁ R ₁	817860	+	+	0	0	+	0	+	0	+	nt	nt	0	+	+	+	0	+	+	+	0	+	0	0	+	0		2	0	4		
3	ccD.EE R ₂ R ₂	254498																															
4	Ccddee r'r	425475	0	+	0	+	+	0	0	+	0	+	nt	nt	+	+	0	+	+	0	+	+	+	+	0	+	+		4	1	4		
5	ccddEe r''r	880738																															
6	ccddee rr	173141	0	0	0	+	+	0	+	+	0	+	nt	nt	+	0	0	+	0	+	+	0	+	0	+	0	+	0		6	1	4	
7	ccddee rr	405566	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	+	0	+	0	0	+	0	+	0	+	+		7	0	0		
8	ccD.ee R ₀ r	020196	+	0	0	+	+	0	0	+	0	+	0	nt	0	0	+	0	+	0	+	0	0	+	0	+	+		8	0	0		
9	ccddee rr	241667	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	0	+	0	+	+	0	+	+	+	+	+	Vel+ ^w	9	1	4		
10	ccddee rr	001544	0	0	0	+	+	0	0	+	0	+	nt	nt	+	0	+	0	0	0	+	+	0	0	+	0	+	+		10	1	0	
11	ccddee rr	207390	0	0	0	+	+	0	0	+	+	+	nt	nt	+	+	+	0	0	0	+	+	0	0	+	0	+	0		11	2	0	

Original Panel Results

IVD		NBS REAGENTS		Panel 1	
Product	Lot No.	Product	Lot No.	Product	Lot No.
ID Panel in Alsevers	R144 3266	ID Panel Papainised in Alsevers	R154 3266	ID Panel in LISP	R146 3266
ID Panel in CellStab	R143 3266	ID Panel Papainised in CellStab	R153 3266	Expiry Date : 2013.03.07	

Patient's Name	Ref. No.	Sample No.	Conclusion
D.O.B.			Tested by AA Date 26/2/13

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Instructions for use can be found at http://www.blood.co.uk/hospitals/diagnostic_services/reagents/index.asp#Pro

	Rh	C	D	E	c	e	C ^w	M	N	S	s	P1	Lu ^a	K	k	Kp ^a	Le ^a	Le ^b	Fy ^a	Fy ^b	JK ^a	JK ^b	Other	AT	ENZ			
1	R ₁ ^w R ₁	+	+	0	0	+	+	+	0	0	+	1	0	0	+	0	0	+	+	0	+	0		1	2			
2	R ₁ R ₁	+	+	0	0	+	0	+	0	+	0	2	0	+	+	0	+	0	0	+	0	+		1	4			
3	R ₂ R ₂	0	+	+	+	0	0	0	+	0	+	4	0	0	+	0	0	+	+	0	0	+		1	4			
4	r'r	+	0	0	+	+	0	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		1	4			
5	r''r	0	0	+	+	+	0	+	0	+	0	1	0	0	+	0	+	0	0	+	+	0		0	4			
6	rr	0	0	0	+	+	0	+	+	0	+	1	0	+	0	0	0	+	0	+	+	0	Ch-	0	0			
7	rr	0	0	0	+	+	0	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		1	4			
8	rr	0	0	0	+	+	0	+	0	0	+	0	0	0	+	+	0	+	+	0	0	+		1	3			
9	rr	0	0	0	+	+	0	0	+	+	0	3	+	0	+	0	0	0	0	+	+	0		0	0			
10	rr	0	0	0	+	+	0	+	0	+	0	1	0	0	+	0	0	+	+	0	0	+		1	0			
																							ATO	1				

New batch

IVD		NBS REAGENTS		Panel 1	
Product	Lot No.	Product	Lot No.	Product	Lot No.
ID Panel in Alsevers	R144 3268	ID Panel Papainised in Alsevers	R154 3268	ID Panel in LISP	R146 3268
ID Panel in CellStab	R143 3268	ID Panel Papainised in CellStab	R153 3268	Expiry Date : 2013.04.04	

Patient's Name		Ref. No.	Sample No.	Conclusion
D.O.B.				Tested by <i>AA</i> Date <i>26/2/13</i>

Unless otherwise indicated, all cells are positive for Kp^b and Lu^b and negative for Wr^a and Co^b.

Instructions for use can be found at http://www.blood.co.uk/hospitals/diagnostic_services/reagents/index.asp#Pro

[illegible]

New batch

VOTE
What
antibodies
are here
(after
E+Fy^a)?

JK^b +
NSA

JK^b+C

JK^b+C^w

JK^b+
other

IVD		NBS REAGENTS		Panel 1	
Product	Lot No.	Product	Lot No.	Product	Lot No.
ID Panel in Alsevers	R144 3268	ID Panel Papainised in Alsevers	R154 3268	ID Panel in LISP	R146 3268
ID Panel in CellStab	R143 3268	ID Panel Papainised in CellStab	R153 3268	Expiry Date : 2013.04.04	

Patient's Name	Ref. No.	Sample No.	Conclusion
D.O.B.			Tested by <i>AA</i> Date <i>26/2/13</i>

Unless otherwise indicated, all cells are positive for Kp^b and Lu^b and negative for Wr^a and Co^b.

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	Rh	C	D	E	c	e	C ^w	M	N	S	s	P1	Lu ^a	K	k	Kp ^a	Le ^a	Le ^b	Fy ^a	Fy ^b	JK ^a	JK ^b	Other	IAT	ENZ					
1	R ₁ ^w R ₁	+	+	0	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	0		1	1					
2	R ₁ R ₁	+	+	0	0	+	0	+	+	+	0	3	0	+	+	0	0	+	0	+	0	+		1	4					
3	R ₂ R ₂																													
4	r'r	+	0	0	+	+	0	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		1	3					
5	r''r																													
6	rr	0	0	0	+	+	0	+	0	+	0	4	0	+	0	0	0	+	+	0	0	+		1	2					
7	rr	0	0	0	+	+	0	0	+	0	+	2	0	+	+	0	+	0	+	0	+	0	Ch-	1	0					
8	rr	0	0	0	+	+	0	+	0	+	0	0	0	0	+	+	0	+	0	+	+	0		0	0					
9	rr	0	0	0	+	+	0	0	+	+	0	0	0	0	+	0	+	0	0	+	0	+		1	2					
10	rr	0	0	0	+	+	0	0	+	0	+	4	+	0	+	0	0	+	0	+	+	0		0	0					
																							AUTO		HL					

Further testing...

- Further panels = anti-E+Fy^a+Jk^b+C
- Eluate = negative!
- Anti-Jk^b wasn't detectable in the next sample...

- Hb = dropped 20g/L over 2 weeks
- Bilirubin = within range and stable
- LDH / Fibrin / CRP = High
 - Patient septic, no baseline

What blood would you crossmatch?

- C- E- K-
- E- Fy(a-)
- C- E- K- Fy(a-)

C- E- K- Fy(a-) Jk(b-)

Had we done something wrong?

- Jk^b newly formed, or subdetectable?
- Not reacting via DRT
 - Probably IgG, probably pre-formed and reactivated
- Sometimes there's nothing you can do

Would I do anything different today?

- Could get phenotypes of the transfused units (pre-EDN)
 - but wouldn't have prevented anything
- Check shared antibody database
 - but if it disappears so quickly...
- Technology can help
 - Better with it

Any Questions?