

Der transfusionsmedizinische Notfall



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DRK- Blutspendedienst Nord- Ost
gemeinnützige GmbH



01.02.2023 21:30: Anforderung von 4
antigenausgetesteten EK
A CcD. ee

01.02.2023 22:30: Anruf aus Labor des KH und
Schilderung eines
serologischen Falles



41jährige Patientin

Diagnose: konnataler Hydrocephalus mit
infiziertem Shunt, Shunt- Op

Antibiotikatherapie mit Meropenem und Vancomycin,
Clindamycin, Ceftriaxon

Letzte Transfusion 2021

01.02.2023 21:40: Hb- Abfall auf 1,10 mmol/l → 4
EK ungekreuzt → Nachkreuzung
unverträglich!!!

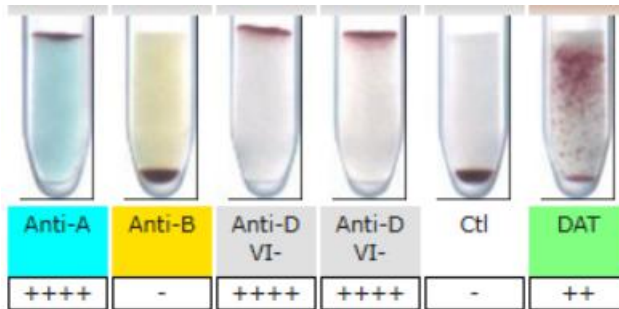
Antikörper bekannt seit 2022

01.02.2023 23:30: Bearbeitung in unserem Labor
(Patientenmaterial **vor** und **nach**
Transfusion)

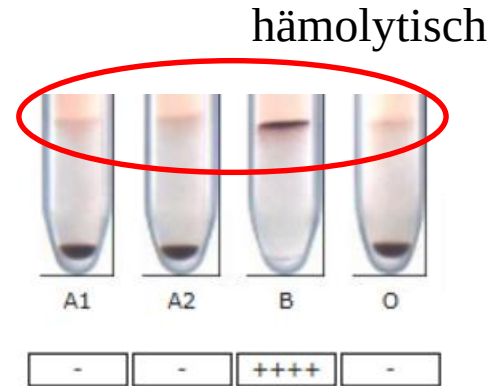


Befunde vom 01./02.02.2023:

BG: A CcD. ee
Kell neg.

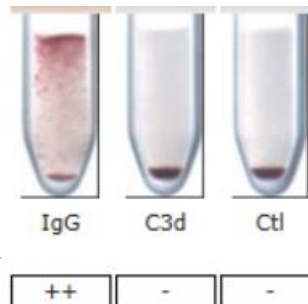


Antigen-tabelle / Antigen-table / table d'antigènes / tabla antigenica / tabla de antígenos / tabela de antigenos



Vor und nach
ABO identer
Notfall- Trafu

Rh-hr	Möglicher Genotyp Probable Genotype Genotype probable Genotipo probable Genotipo provável	Spender Donor Donneur Donatore Donante Dador	Rh-hr						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg		Spez. Antigene Special types Antigènes particuliers Antígenos particulares Otros Antígenos Tipos especiales	Resultat Resultado/ Resultado/I
			D	C	E	c	e	C ⁺	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	P	M	N	S	s	Lu ^a	Lu ^b	Xg ^a	Xg ^b		
I	CCC ^w D.ee	R ₁ ^w R ₁	552663	+	+	0	0	+	+	0	+	0	+	nt	nt	+	+	0	+	+w	+	+	+	0	+	0	+	+	+	N/A	I
II	ccD.EE	R ₂ R ₂	384584	+	0	+	+	0	0	0	+	0	+	nt	nt	0	+	+	+	+	0	+	+	0	0	+	0	+	+	N/A	II
III	ccdde	rr	272077	0	0	0	+	+	0	+	+	0	+	nt	nt	+	0	+	0	0	+	+	+	+	+	0	+	+	+	N/A	III
Eigenkontrolle / Autocontrol / Autocontrôle / Autocontrola / Autocontrola / Autocontrola																															



DRK-Blutspendedienst Nord-Ost

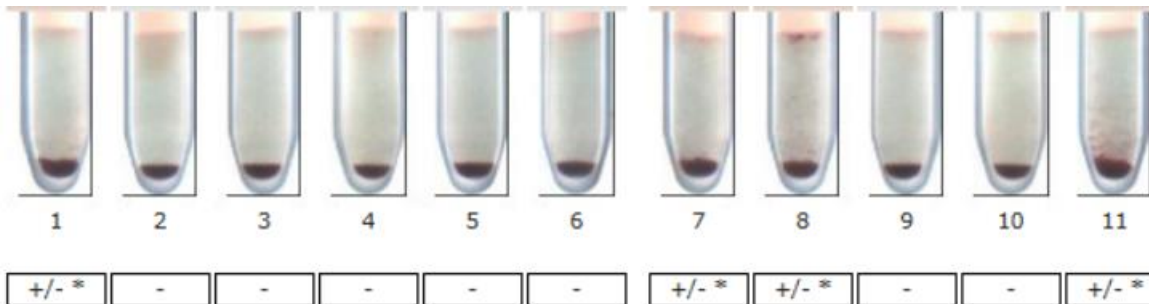
gemeinnützige GmbH

Berlin | Brandenburg | Hamburg

Sachsen | Schleswig-Holstein



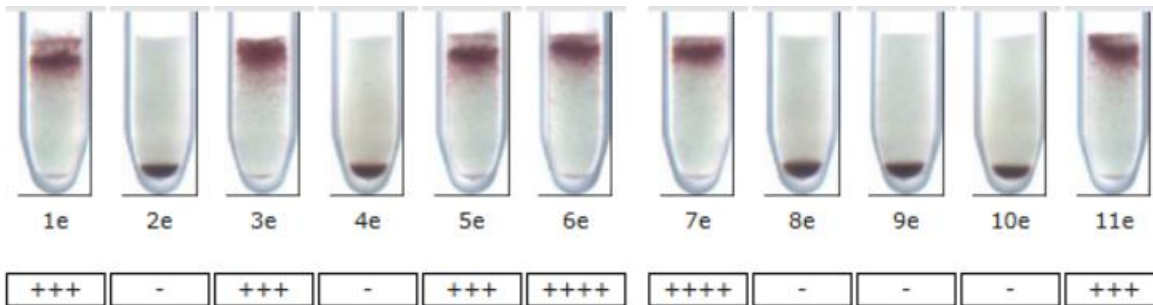
Rh-hr	Möglicher Genotyp Probable Genotype Genotype probable Probabile genotipo Genotipo provável	Spender Donor Donateur Donatore Donante Donor	Rh-hr						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg		Spec. Antigene Special types Antigènes part. Antígenos parciais Otros Antígenos Tipos especiales	Result Résultat Résultat	
			D	C	E	c	e	C ⁺	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			
1	CCC ^W D.ee	R ₁ ^W R ₁	314527	+	+	0	0	+	+	0	+	0	+	nt	nt	+	0	+	0	0	+	+	+	+	+	+	0	+	+	N/A	1	(+)
2	CCD.ee	R ₁ R ₁	829796	+	+	0	0	+	0	+	+w	+	+	nt	nt	0	+	+	+	0	+	+	+	+	+	0	0	+	+	N/A	2	-
3	ccD.EE	R ₂ R ₂	820465	+	0	+	+	0	0	0	+	0	+	nt	nt	+	0	0	+	0	+	+	0	+	+	+	0	+	0	N/A	3	-
4	Ccddee	r'r	646083	0	+	0	+	+	0	0	+	0	+	nt	nt	0	+	0	+	0	0	0	+	0	+	0	0	+	+	N/A	4	-
5	ccddEe	r''r	905150	0	0	+	+	+	0	0	+	0	+	nt	nt	+	+	+	0	0	+	+	+	+	+	0	+	+	+	N/A	5	-
6	ccddeee	rr	509615	0	0	0	+	+	0	+	+	0	+	nt	nt	+	+	0	+	0	+	+	+	0	0	+	0	+	+	N/A	6	-
7	ccddeee	rr	303891	0	0	0	+	+	0	0	+	0	+	nt	nt	+	0	+	0	0	+	+	0	+	0	+	0	+	+	N/A	7	(+)
8	ccD.ee	R ₀ r	775515	+	0	0	+	+	0	0	+	0	+	nt	nt	0	0	+	+	0	0	+	+	+	0	+	0	+	+	N/A	8	(+)
9	ccddeee	rr	518272	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	0	+	0	+	0	+	+	+	0	+	+	0	N/A	9	-
10	ccddeee	rr	492822	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	+	0	+	0	+	+	0	+	+	0	+	+	N/A	10	-
11	ccddeee	rr	188751	0	0	0	+	+	0	0	+	0	+	nt	nt	+	0	0	+	0	0	+	0	+	0	+	0	+	+	N/A	11	(+)



Antikörper ???



Rh-hr	Mögliche Genotyp Probable Genotype Genotype probable Probable genotype Genotipo probable Genotipo provável	Iggender Denon Denon Denon Denon Denon	Rh-hr						Kell						Duffy		Kidd		Lewis		P	MNS				Luth.		Xg	IAT Elu IAT Elu	Luth. IAT Elu
			D	C	E	c	e	C ⁺	K	k	Kp ^a	Kp ^b	Jk ^a	Jk ^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		
1	CCC ^w D.ee	R ₁ ^w R ₁	314527	+	+	0	0	+	0	+	0	+	nt	nt	+	0	+	0	0	+	+	+	+	+	0	+	+	N/A	3	(+)
2	CCD.ee	R ₁ R ₁	829796	+	+	0	0	+	+	+w	+	+	nt	nt	0	+	+	+	0	+	+	+	+	+	0	+	+	N/A	-	-
3	ccD.EE	R ₂ R ₂	820485	+	0	+	+	0	0	+	0	+	nt	nt	+	0	0	+	0	+	+	0	+	+	0	+	0	N/A	3	-
4	Ccddee	r' ⁺ r	846083	0	+	0	+	+	0	+	0	+	nt	nt	0	+	0	+	0	0	+	0	+	0	0	+	+	N/A	-	-
5	ccddEe	r''r	905150	0	0	+	+	+	0	+	0	+	nt	nt	+	+	+	0	0	+	+	+	+	+	0	+	+	N/A	3	-
6	ccddeee	rr	509615	0	0	0	+	+	+	+	0	+	nt	nt	+	+	0	+	0	+	+	+	0	0	+	0	+	N/A	4	-
7	ccddeee	rr	303891	0	0	0	+	+	0	+	0	+	nt	nt	+	0	+	0	0	+	+	0	+	0	+	0	+	N/A	4	(+)
8	ccD.ee	R ₀ r	775515	+	0	0	+	+	0	+	0	+	nt	nt	0	0	+	+	0	0	+	+	+	0	+	0	+	N/A	-	(+)
9	ccddeee	rr	518272	0	0	0	+	+	0	+	0	+	nt	nt	0	+	0	+	0	+	+	+	+	0	+	+	0	N/A	-	-
10	ccddeee	rr	492822	0	0	0	+	+	0	+	0	+	nt	nt	0	+	+	0	+	0	+	+	0	+	+	0	+	N/A	-	-
11	ccddeee	rr	188751	0	0	0	+	+	0	+	0	+	nt	nt	+	0	0	+	0	0	+	0	+	0	+	0	+	N/A	3	(+)

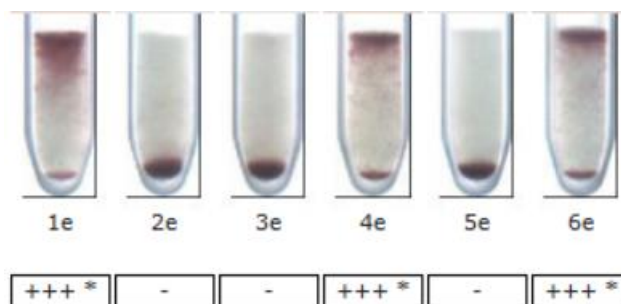
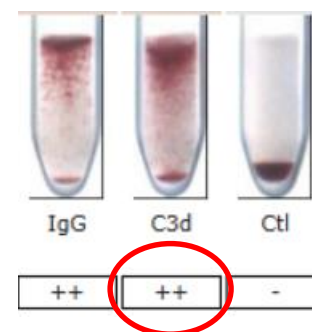
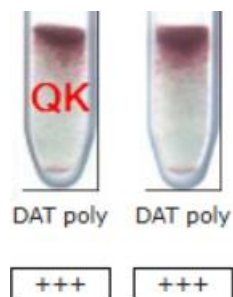
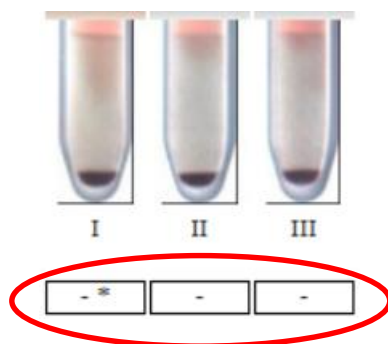


Anti- Fy(a) gebunden nachweisbar

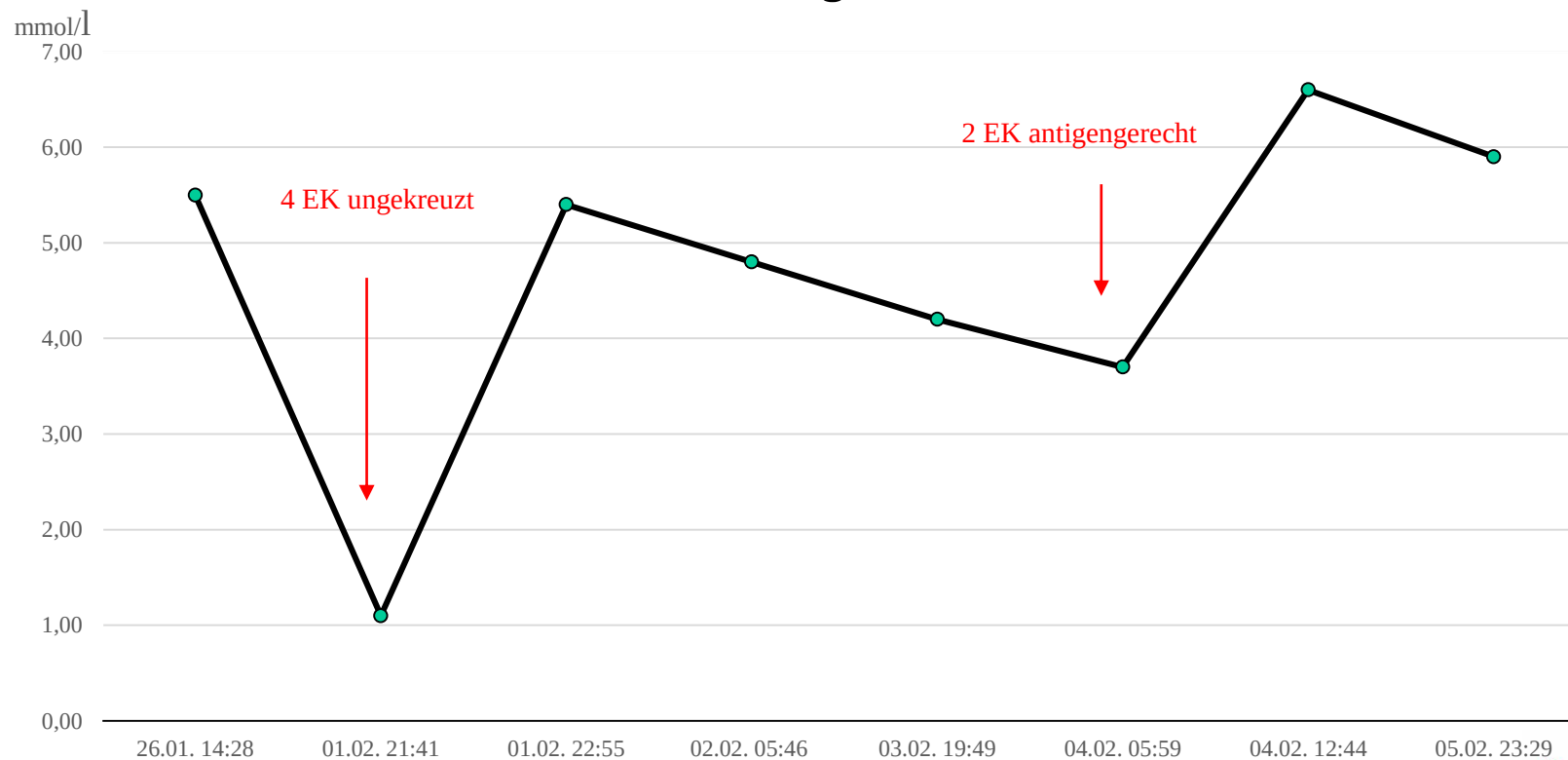
2 von 4 EK waren Fy(a) positiv

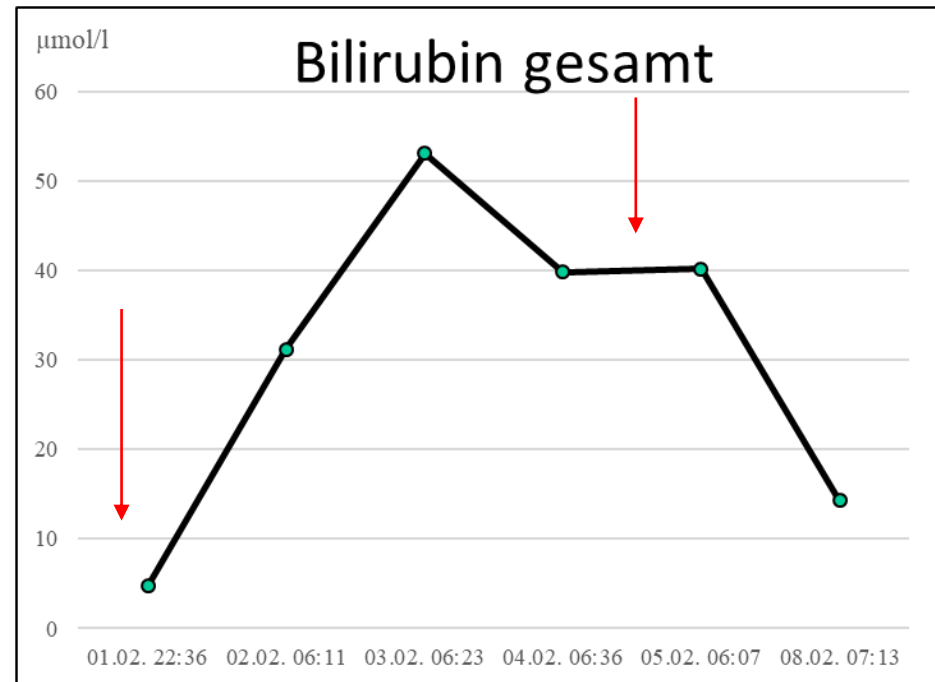
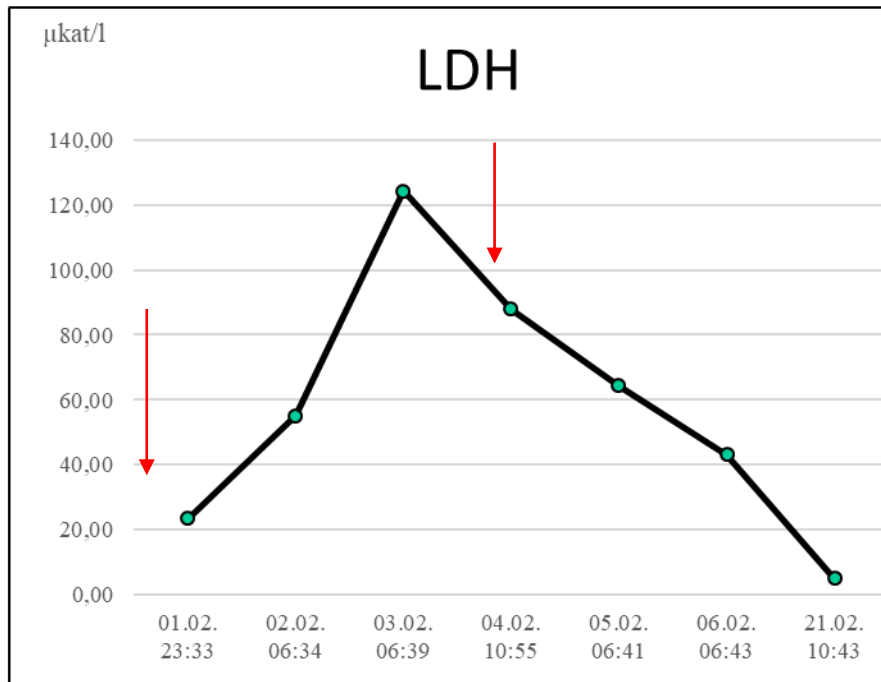


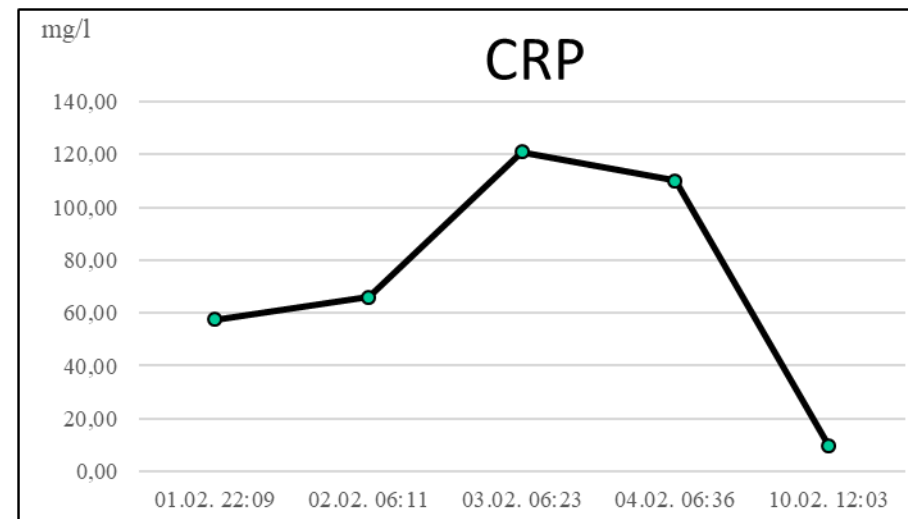
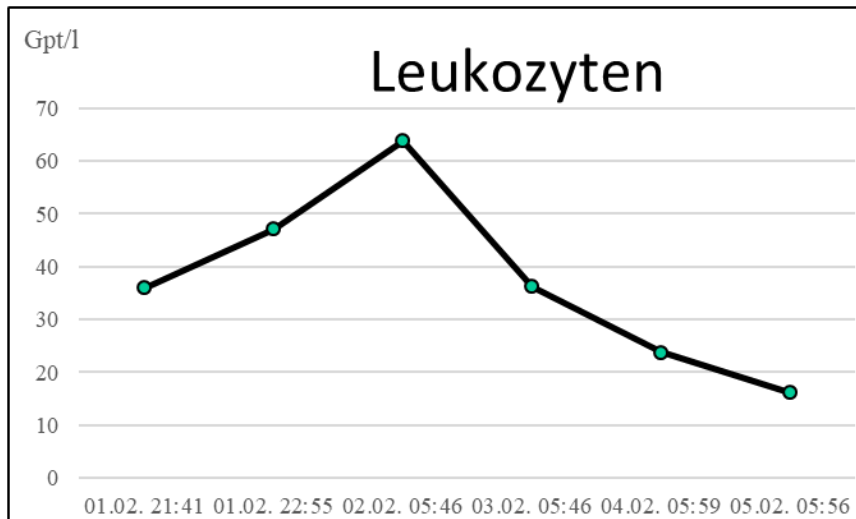
Befunde vom 03.02.2023



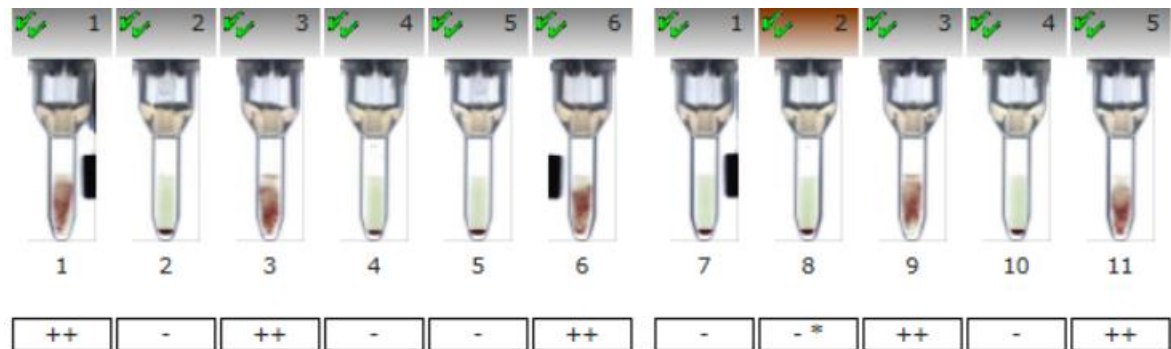
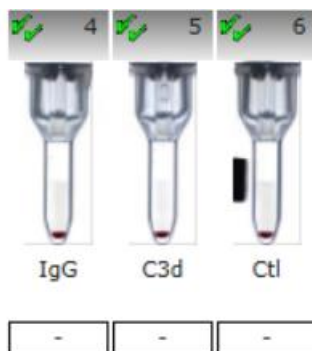
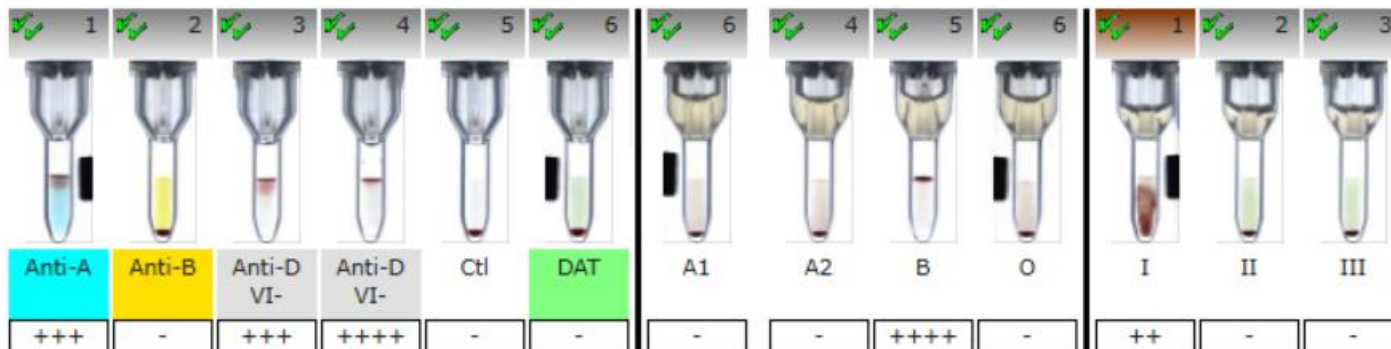
Hämoglobin







Befunde vom 29.03.2023



Zusammenfassung

- schwere Hämolyse mit hypovolämischen Schock multifaktoriell bedingt durch Sepsis, Einnahme von NSAR und Antibiotika
- inkompatible Transfusion aus vitaler Indikation (Anti- Fya konnte nicht beachtet werden, 34% kompatible EK)
- Bei Laboruntersuchungen: kritische Interpretation der Ergebnisse



Ich danke für Ihre Aufmerksamkeit

