



Central Blood Bank
King Fahad Specialist Hospital, Buraydah

Compatibility table for Rh Phenotype +K

Rh Phenotype + K					
Patient phenotype	Wiener		Compatible Choices if:		♠ Alternative choices (in order) From left to right
	RhD	Rhd	RhD +	Rhd -	
CCEE	R _z R _z	r ^y r ^y	_____	_____	CCEe → CCee → CcEE → ccEE → CcEe → Ccee → ccEe → ccee
CCEe	R ₁ R _z	r ['] r ^y	CCee → CCEE	CCee → CCEE	Cc → cc (No matter for E or e)
CCee	R ₁ R ₁	r ['] r [']	_____	_____	CCEe → CCEE → Ccee → ccee → CcEe → ccEE
ccee	R ₀ R ₀	r r	_____	_____	Ccee → CCee → ccEe → ccEE → CcEe → CCEe → CCEE
ccEE	R ₂ R ₂	r ^{''} r ^{''}	_____	_____	ccEe → ccee → CcEE → CCEE → CcEe → CCee
ccEe	R ₂ R ₀	r ^{''} r	ccEE → ccee	ccee → ccEE	Cc → CC (No matter for E or e)
CcEE	R ₂ R _z	r r ^y	ccEE → CCEE	ccEE → CCEE	Ee → ee (No matter for C or c)
Ccee	R ₁ R ₀	r ['] r	CCee → ccee	ccee → CCee	Ee → EE (No matter for C or c)
CcEe	R ₁ R _z	r ['] r ^{''}	CcEe → CCee ccEE → CCEe CcEE → CCEE ccEe → Ccee	CcEe → ccee ♥ Ccee → ccEe CCee → ccEE CcEE → CCEE	♣ All are compatible
K neg	_____	_____	_____	_____	* K+
K+	_____	_____	K neg	K neg	♣ All are compatible

♠ In the alternative choices you can easily follow this rule (D > K > c > E > C > e)
(> means = D has higher rate of immunogenicity than K).

♣ Antigen K must be considered

* As K is an antigen that is highly immunogenic after D, it is recommended to be avoided unless there is no available choices, even if with compatible ABO or/and with alternative Rh phenotype (CcEe) , then select the most compatible Choice indicated on the above table.

♥ This Phenotype (Ccee) preferably considered as Rh+ due to possible position affect

- Choosing alternative choices will expose patient to foreign Ags that could provoke the immune system to develop corresponding Abs
- If patient blood group is A, B or AB and no compatible phenotype found then it might be shifted to the O blood group before you shift to the alternative choices.

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