

**Ro Substitution Matrix**

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**Ro request substitution examples**

Receive request for 8 O Ro units. Only have 4 O Ro available. Supply 4 O Ro + 4 O rr. Not 8 O rr.  
Only supply a maximum of 2 different blood groups. Unless multiple phenotyped units required.

If request have in the notes section “will accept rr “. It is acceptable to supply a mix of Ro & rr.

Receive request for 8 B Ro units. Only have 4 B Ro available. Supply 4 B Ro, if not then supply with 4 O Ro, if not then supply with 4 B rr. Only 2 Blood Groups

Receive request for 8 AB Ro units. Only have 2 AB Ro available. Supply 2 AB Ro, then supply with 6 A Ro, if this does not fulfil the request then makes up the short fall with either 6 O Ro or 6 A rr. Only 2 Blood Groups

**Please note**  
**NHSBT patient consultants recommend the use of all Ro units before issuing rr substitutions.**  
**Hospital Services MUST discuss and agree ALL substitutions with Hospitals using the selection preference below as a guide.**  
**Where possible all suitable Ro stock should be exhausted before rr substitutions.**  
**Any further issues should be discussed with a NHSBT patient consultant.**

**Ro Substitution Matrix**

<b>Substitutions</b>	<b>O Ro (C-D+E-)</b>	<b>A Ro (C-D+E-)</b>	<b>B Ro (C-D+E-)</b>	<b>AB Ro (C-D+E-)</b>
1st	O rr (C-D-E-)	O Ro (C-D+E-)	O Ro (C-D+E-)	A Ro (C-D+E-)
2nd		A rr (C-D-E-)	B rr (C-D-E-)	O Ro (C-D+E-)
3rd		O rr (C-D-E-)	O rr (C-D-E-)	B Ro (C-D+E-)
4th				A rr (C-D-E-)
5th				AB rr (C-D-E-)
6th				B rr (C-D-E-)
7th				O rr (C-D-E-)