

Homerton University Hospital NHS Foundation Trust automated red cell exchange transfusion protocol template: a real world example

This protocol template is an example used in the NICE medical technologies guidance adoption resource for Spectra Optia for automated red blood cell exchange in patients with sickle cell disease. It was not produced, commissioned or sanctioned by NICE.

**HOMERTON HOSPITAL NHS TRUST – HAEMATOLOGY DEPARTMENT  
BLOOD TRANSFUSION PROGRAM**

**NAME:** xxxxxxxxxxxx

**INDICATION:** xxxxxxxxxxxx

**HOSPITAL NO:** xxxxxxxxxxxx

**DOB:** xxxxxxxxxxxx

**REQUIREMENTS:** **Automated RBC exchange transfusion**  
Every x weeks  
Crossmatch x units RBCs  
Target HbS x %  
Target Hct x %

**PROTOCOL:** Pre-Tx: FBC + retics + Hb S%  
Ferritin + U&E + LFT + Ca + Mg + coagulation screen  
  
Post Tx: FBC + retics + Hb S%  
U&E + LFT + Ca + Mg + coagulation screen  
Discuss post-transfusion results with Haematology Consultant before removing IV access if  
a. the post-transfusion haematocrit is more than one unit from the target haematocrit and / or  
b. the platelet count is  $\leq 50 \times 10^9/L$

**START DATE:** xxxxxxxxxxxx

**IRON CHELATION:** xxxxxxxxxxxx

Year	Mean serum ferritin Ug/l	LIC by Ferriscan mg/grm DW	Cardiac T2* ms
xxxx	x	x (xx/xx/xxxx)	x (xx/xx/xxxx)

**Mean pre-ARCET HbS: x%**

**Antibody screen: x**

**HBV / HCV / HIV: x (xx/xx/xxxx)**