

Joint UKBTS / NIBSC Professional Advisory Committee (¹) Summary Sheet

1. Paper for the JPAC meeting on:	12 March 2009
2. Date submitted:	02/01/09
3. Title (including version no.):	<p>Proposed change: Red Book: Chapter 13.10 Mandatory testing of blood donations</p> <p>Section 13.10.7 Antibody screen for blood for neonates (Page 180) states:</p> <p>“Blood for Neonatal use must be screened and found negative for antibodies by an indirect antiglobulin test, performed using a two cell panel expressing the following antigens as a minimum:</p> <p>C:C^w;c;D;E;e;K;k;Kp^a;Fy^a;Fy^b;Jk^a;Jk^b;S;s;M; and Lu^a”</p>
4. Author(s):	Nay Win on behalf of SAC-IH
5. Brief summary:	<p>Two cell panel use for screening blood for neonates in Testing Department does not cover the full complement of antigens as described in the Red Book. (It does not cover C^w; Kp^a or Lu^a)</p> <p>Anti-C^w; anti- Kp^a and anti-Lu^a are rarely of clinical significance and regarding transfusion support for these antibodies antigen negative blood is not required and has been recommended to select IAT compatible blood.¹</p> <p>Therefore it is not considered essential to include Kp(a+), Lu(a+) and Cw+ screening cells. (BCSH Guidelines² for compatibility procedures in blood transfusion laboratories).</p> <p>BCSH guidelines for neonatal transfusion³ also states “Compatibility tests should be conducted in accordance with national guidelines for pretransfusion testing in adult practice.</p> <p>Therefore these above guidelines^{2,3} do not stipulate the presence of (C^w; Kp^a or Lu^a) antigens on the screen cells.</p> <p>To include these antigens in the screen cells would compromise the homozygosity/detection for the other clinically relevant antibodies. The risk of infusing a small amount of anti- C^w, anti- Kp^a or anti-Lu^a is outweighed by the benefits of ensuring sensitive detection of other antibodies.</p> <p>Therefore to delete C^w; Kp^a or Lu^a and should read</p> <p>“performed using a two cell panel expressing the following antigens as a minimum:</p>

	<p>C;c;D;E;e;K;k;Fy^a;Fy^b;Jk^a;Jk^b;S;s and M”</p> <p>Please Note: Previous Red Book, lacked the requirement for Cw+, Lu(a+) and Kp(a+) on the neonatal screening cells.</p>
<p>6. Action required by JPAC: (What do you want JPAC to do in response to this paper?) e.g.</p> <ul style="list-style-type: none"> • endorse a specific recommendation • advise where there is a choice of possible actions • advise on priorities within the work plan • provide a steer on policy 	<p>Endorse amended version / issue Change Notification.</p>
<p>7. Any other relevant information:</p>	<p>References</p> <ol style="list-style-type: none"> 1. The clinical significance of blood group antibodies. Daniels et al. Transfusion Medicine 2002;12:287-295. 2. Guidelines for compatibility procedures in blood transfusion laboratories. Working Party of the British Committee for Standards in Haematology Blood Transfusion Task Force. Transfusion Medicine 2004;14:59-73. 3. Transfusion guidelines for neonates and older children. (British Committee for Standards in Haematology Blood Transfusion Task Force). British Journal of Haematology 2004;124:433-453

(¹) **Joint United Kingdom Blood Transfusion Services and National Institute for Biological Standards and Control Professional Advisory Committee**