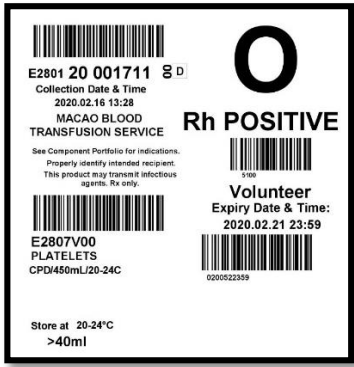




Introduction of Platelet Concentrates

2020

The Macao Blood Transfusion Service provides the following three types of platelet concentrates to hospitals: Pooled Platelet Concentrates, Random Platelet Concentrates and Apheresis Platelet Concentrates.

	Random Platelet Concentrates	Pooled Platelet Concentrates	Apheresis Platelet Concentrates																								
Source	Derived from a whole blood donation.	Derived and pooled from 4 to 5 whole blood donations of the identical ABO group.	Obtained from a blood donation by an apheresis machine. ¹																								
ISBT 128 Label																											
Per Unit Volume	>40mL	>160mL	160 – 265 mL																								
Shelf life	5 days	5 days	5 days																								
Adult Therapeutic Dose	4 units are equivalent to 1 therapeutic dose	1 unit is equivalent to 1 therapeutic dose	1 unit is equivalent to 1 therapeutic dose																								
Residual Leucocytes	< 0.05 X 10 ⁹ / Unit	< 1 X 10 ⁹ / Unit	< 0.3 X 10 ⁹ / Unit																								
Platelet Selection²	ABO non-identical with the recipient is acceptable.	<table border="1"> <thead> <tr> <th></th> <th>Recipient's Group</th> <th>O</th> <th>A</th> <th>B</th> <th>AB</th> </tr> </thead> <tbody> <tr> <td rowspan="3">ABO Group for transfusion</td> <td>1st Choice</td> <td>O</td> <td>A</td> <td>B</td> <td>AB</td> </tr> <tr> <td>2nd Choice</td> <td>A / B</td> <td>AB</td> <td>AB</td> <td>A / B</td> </tr> <tr> <td>3rd Choice</td> <td>AB</td> <td>B / O</td> <td>A / O</td> <td>O</td> </tr> </tbody> </table>					Recipient's Group	O	A	B	AB	ABO Group for transfusion	1 st Choice	O	A	B	AB	2 nd Choice	A / B	AB	AB	A / B	3 rd Choice	AB	B / O	A / O	O
	Recipient's Group	O	A	B	AB																						
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	2 nd Choice	A / B	AB	AB	A / B																						
	3 rd Choice	AB	B / O	A / O	O																						
Remark	<p>1. One unit of Apheresis Platelet Concentrate is obtained from one donor.</p> <p>2. The titre of anti-A and anti-B of all donations are tested at MBTS. Those units of platelet concentrate with high titre of anti-A or anti-B are labeled as shown below and can only be transfused to recipients of identical ABO group. Those units of platelet concentrate without this label can be transfused to recipients of non-identical ABO groups.</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; margin: 10px auto; width: fit-content;"> <p>只可輸給 ABO 同型受血者 For ABO grouping identical recipient only</p> </div>																										

