ISBT WORKING PARTY ON RARE DONORS
Taiwan
Rare Donor Programs in Taiwan
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Have a national Rare Donor Program:

• No

Number of Donors in Database:

• Rare Donor List: 655 donors

Definition of Rare:

• Negative for high-prevalence antigen < 1/1,000
• Negative for multiple common antigens
• Rh(D-): 0.4% uncommon
## Number of Frozen Rare Cells:

<table>
<thead>
<tr>
<th>Category</th>
<th>Frozen blood</th>
<th>Category</th>
<th>Frozen blood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oh</td>
<td>173</td>
<td>Fy(a-b+)</td>
<td>153</td>
</tr>
<tr>
<td>CDE/CDE</td>
<td>16</td>
<td>Fy(a-b-)</td>
<td>3</td>
</tr>
<tr>
<td>S+s-</td>
<td>37</td>
<td>JK(a-b-)</td>
<td>187</td>
</tr>
<tr>
<td>P(-)</td>
<td>2</td>
<td>Di(a+b-)</td>
<td>8</td>
</tr>
<tr>
<td>Lu(a-b-)</td>
<td>1</td>
<td>“i adult”</td>
<td>71</td>
</tr>
<tr>
<td>Ko</td>
<td>3</td>
<td>Jr(a-)</td>
<td>1</td>
</tr>
</tbody>
</table>
How are Rare Donors found?:

• Manual screening
  – For a specific patient or irregular antibodies screening positive donor

• Geographic selection of donors to screen

• Automated serologic screening
  – Rh, Kidd, Lewis, MNS, Mia
Number of Rare Donor units used per year: (2010-2011, Taipei Blood Center)

<table>
<thead>
<tr>
<th>Blood Type</th>
<th>Frequency</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JK(a-b-)</td>
<td>0.023%</td>
<td>45</td>
</tr>
<tr>
<td>Fy(a-),Rh(C-)</td>
<td>0.3%</td>
<td>27</td>
</tr>
<tr>
<td>Rh(C-E-)</td>
<td>0.25%</td>
<td>77</td>
</tr>
</tbody>
</table>
Shipping Outcome form used?:

• No

Most difficult types to find:

• The Di(b-) and Rh null donors remain short in our donor panel.
Other items of interest:

• The project of screening for rare blood donors should be continued to increase our rare donor number.

• Recruitment and retention of rare blood donors should be addressed.
Thank You