6.3 BLOOD TRANSFUSION AND TRANSPLANTATION

6.3.1 Blood transfusion

Question

What deferral period, if any, should be applied to prospective blood donors who have themselves received a blood transfusion?

<table>
<thead>
<tr>
<th>Population</th>
<th>Intervention</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prospective blood donors</td>
<td>Acceptance or deferral for blood donation</td>
<td>■ Minimize adverse events related to blood donation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ Avoid unnecessary deferral of suitable blood donors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ Minimize risk of transfusion-transmitted infections in recipients of blood transfusion</td>
</tr>
</tbody>
</table>

Key search and MeSH words

blood component transfusion, blood and blood products, plasma-derived clotting factor, pre-operative autologous donation.

Search strategy: PUBMED

#22Search (blood component transfusion recipient*) AND#5 Limits: Humans, English, published in the last 10 years17:44:13 4

#23Search (plasma-derived clotting factor recipient*) AND#5 Limits: Humans, English, published in the last 10 years17:40:31 0

#21Search (plasma-derived clotting factor recipient*) AND donor deferral Limits: Humans, English, published in the last 10 years17:23:54 0

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#19Search (#6) AND donor deferral Limits: Humans, English, published in the last 10 years17:18:05 1

#18Search (donor deferral) AND blood component transfusion Limits: Humans, English, published in the last 10 years17:16:10 11
Number of citations screened 116
Number of papers that address the study question 0

Key references
None identified

Decision-making process
Blood transfusion is a known risk factor for HIV, hepatitis B and hepatitis C. Recommendations for the deferral of prospective donors following transfusion are therefore consistent with other risk factors for infection. The Guideline Development Group agreed on the following recommendations based on their medical and scientific knowledge and experience from best practice.

Recommendations

Accept
- Individuals whose sexual partners or close contacts have received blood transfusions

Defer
- Recipients of blood transfusion: defer for 12 months
- Former sexual contacts of individuals on regular treatment with plasma-derived coagulation factors: defer for 12 months after last sexual contact
- Current sexual contacts of individuals on regular treatment with plasma-derived coagulation factors

**Defer permanently**
- Recipients of blood transfusion or any other human-derived therapeutic products since 1980 in a country in which the risk of vCJD has been identified
- Individuals on regular treatment with plasma-derived coagulation factors

### 6.3.2 Organ, stem cell and tissue transplantation

**Question**
What deferral period should be applied to prospective blood donors who have themselves received an organ or tissue transplant?

<table>
<thead>
<tr>
<th>Population</th>
<th>Intervention</th>
<th>Outcome</th>
</tr>
</thead>
</table>
| Prospective blood donors | Acceptance or deferral for blood donation | ■ Minimize adverse events related to blood donation  
■ Avoid unnecessary deferral of suitable blood donors  
■ Minimize risk of transfusion-transmitted infections in recipients of blood transfusion |

**Key search and MeSH words**

organ transplantation, allogeneic blood transfusion, allogeneic tissue grafts, tissue grafts, dura mater grafts, xenografts, corneal transplants, non-human organ perfusion

**Search strategy: PUBMED**

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#24 Search allogeneic tissue grafts OR tissue grafts OR dura mater grafts OR xenografts, Limits: Humans, English, published in the last 10 years13:34:17 25462
#23 Search (#17) AND organ transplantation* recipient* OR corneal transplant* recipient* Limits: Humans, English, published in the last 10 years13:31:30 237
#22 Search (#17) AND allogeneic blood transfusion Limits: Humans, English, published in the last 10 years13:26:15 5
#21 Search (#16) AND allogeneic blood transfusion Limits: Humans, English, published in the last 10 years13:22:34 68
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#16Search (#2) AND#3 Limits: Humans, English, published in the last 10 years13:08:36 1795
#15Search ((#2) AND#14) AND#4 Limits: Humans, English, published in the last 10 years13:04:21 5
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#2Search blood donor* OR blood donat* OR donating blood Limits: Humans, English, published in the last 10 years12:39:48 6834
#1Search blood donor* OR blood donat* OR donating blood12:39:17 26528

Number of citations screened  574
Relevant papers selected  2

Key references

Decision-making process
There is no published evidence of transfusion-transmitted infection from a donor who was the recipient of a tissue transplant. In view of the theoretical risk, the Guideline Development Group agreed that the same recommendations should be applied as for recipients of labile blood components.

Recommendations

Defer
- Recipients of allogeneic tissues: defer for 12months

Defer permanently
- Recipients of:
  — Stem cell or organ transplantation
— Allogeneic cells or tissue sourced since 1980 from countries in which the risk of vCJD has been identified
— Dura mater graft
— Corneal transplant
— Xenograft
— Non-human organ perfusion