### Version 7.20 December 03, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>3.2.1.1 Added Core Condition:</td>
<td>Requested by the UK</td>
</tr>
<tr>
<td></td>
<td>• ≤ -130°C</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>4.1.5 Added New Classes:</td>
<td>Requested by Belgium</td>
</tr>
<tr>
<td></td>
<td>• CHORIONIC MEMBRANE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• TYMPANIC MEMBRANE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• TYMPANIC MEMBRANE WITH MALLEUS</td>
<td></td>
</tr>
</tbody>
</table>

### Version 7.19 November 01, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2.3.1.1 Added New Core Condition:</td>
<td>Requested by the US</td>
</tr>
<tr>
<td></td>
<td>• ACD-A&gt;PAS-F</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>3.1.2 Added New Class:</td>
<td>Requested by the US</td>
</tr>
<tr>
<td></td>
<td>• iPSC, WHOLE BLOOD</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>10.2.1.1 Added New Attribute Variable:</td>
<td>Requested by Denmark</td>
</tr>
<tr>
<td></td>
<td>• Thawed</td>
<td></td>
</tr>
</tbody>
</table>

### Version 7.18 October 03, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>3.1.2 Added New Classes:</td>
<td>Requested by the US</td>
</tr>
<tr>
<td></td>
<td>• CARDIAC STEM CELLS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• SCHWANN CELLS, PERIPHERAL NERVE</td>
<td></td>
</tr>
</tbody>
</table>

### Version 7.17 August 28, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>4.3.2.2.13 Added New Attribute Variable:</td>
<td>Requested by the US</td>
</tr>
<tr>
<td></td>
<td>• Demineralized and mineralized</td>
<td></td>
</tr>
<tr>
<td>Section</td>
<td>Change</td>
<td>Rationale</td>
</tr>
<tr>
<td>---------</td>
<td>--------</td>
<td>-----------</td>
</tr>
</tbody>
</table>
| 1. 3.2.2.2.12 | Added New Attribute Variables:  
- Activated T cell enriched  
- Tumor specific T cell enriched | Requested by the US |
| 2. 4.1.1 | Added New Classes:  
- ARTERY, CELIAC TRUNK  
- ARTERY, FEMORAL-POPLITEAL  
- ARTERY, POPLITEAL  
- VEIN, HEPATIC  
- VEIN, ILIAC  
- VEIN, PORTAL  
- VEIN, SUPERIOR VENA CAVA | Requested by the International Tissue Technical Advisory Group (ITTAG) |
| 3. 4.1.2 | Added New Class:  
- TENDON, PES ANSERINUS | Requested by the International Tissue Technical Advisory Group (ITTAG) |
| 4. 4.1.3 | Added New Classes:  
- BONE, CUBOID  
- BONE, INTERMEDIATE CUNEIFORM  
- BONE, LATERAL CUNEIFORM  
- BONE, MEDIAL CUNEIFORM  
- BONE, NAVICULAR | Requested by the International Tissue Technical Advisory Group (ITTAG) |
| 5. 4.1.5 | Added New Class:  
- DURA MATER | Requested by the International Tissue Technical Advisory Group (ITTAG) |
| 6. 4.3.2.2.2 | Added New Attribute Variable:  
- Reconstituted | Requested by the International Tissue Technical Advisory Group (ITTAG) |
| 7. 4.3.2.2.5 | Added New Attribute Variable:  
- Ethanol | Requested by the International Tissue Technical Advisory Group (ITTAG) |
| 8. 4.3.2.2.16 | Added New Attribute Variables:  
- Calcaneal  
- Talus | Requested by the International Tissue Technical Advisory Group (ITTAG) |
### Version 7.15 June 1, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
</table>
| 1. 4.1.5 | Added New Classes:  
• LYMPH NODE (TISSUE)  
• SPLEEN (TISSUE) | Requested by the US |

### Version 7.14 May 4, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
</table>
| 1. 3.1.3 | Added New Abbreviation:  
• MNC(CB) | Requested by Hong Kong |
| 2. 3.2.2.2.9 | Revised definition for existing attribute Mobilized:  
From:  
• Applies to cells that have been obtained from a donor treated with an agent to increase the concentration of the target cell population(s)  
To:  
• Applies to cells that have been obtained from a donor treated with an agent increasing the concentration of cells. | Requested by CTCLAG |

### Version 7.13 April 6, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
</table>
| 1. 3.1.2 | Added New Class:  
• MNC, CORD BLOOD | Requested by Hong Kong |
| 2. 4.1.1 | Added New Classes:  
• ARTERY  
• ARTERY, AXILLARY-BRACHIAL  
• ARTERY, CAROTID  
• VEIN | Requested by Spain |
## Version 7.13 April 6, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
</table>
| 3. | 4.1.2 | Added New Classes:  
- TENDON, BICEPS WITH RADIUS  
- TENDON, FLEXOR CARPI RADIALIS  
- TENDON, PATELLAR WITH TIBIA AND MENISCI  
- TENDON, PATELLAR, BISECTED WITH BONE BLOCK AND QUAD  
- TENDON, TRICEPS WITH ULNA | Requested by Spain |
| 4. | 4.1.3 | Added New Class:  
- BONE, STAPES | Requested by Belgium |
| 5. | 4.1.3 | Added New Class:  
- GLENOID WITH LABRUM | Requested by Poland |
| 6. | 4.1.3 | Added New Classes:  
- ACETABULUM WITH LABRUM  
- BONE, CALCANEUS  
- BONE, METATARSUS  
- BONE, PHALANX, FINGER  
- BONE, PHALANX, TOE  
- BONE, TALUS  
- WRIST | Requested by Spain |

## Version 7.12 March 2, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
</table>
| 1. | 10.2 10.2.1.2 | Added New Attribute Group:  
- Cryoprotectant | Requested by Fecal Microbiota subcommittee |
| 2. | 10.2.1.1 | Added New Attribute Variable:  
- Cryopreserved | Requested by Fecal Microbiota subcommittee |
| 3. | 10.2.1.2 | Added New Attribute Variables:  
- None or not specified  
- Glycerol | Requested by Fecal Microbiota subcommittee |
| 4. | 10.2.1.1 14.6 14.6.1.1 | Retired the following Fecal Microbiota Attribute Variable:  
- Frozen | Requested by Fecal Microbiota subcommittee |
### Version 7.11 February 1, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
</table>
| 1. 2.3.2.6 | Added new Attribute Variable:  
• ≥ 800 milliliters | Requested by Australia |
| 2. 2.3.2.11 | Removed retired Attribute Variable:  
• Solvent detergent-treated | Previously retired in ISBT 128 Product Description Code Database v4.34.0 |
| 3. 2.3.2.13 | Added new Attribute Variables:  
• Bacterial test day 5  
• Bacterial test day 6  
• Bacterial test day 7 | Inadvertent omission.  
This attribute was added ISBT 128 Product Description Code Database v7.10.0 |
| 4. 14.1.3.2 | Added Retired Attribute Variable:  
• Solvent detergent-treated | Previously retired in ISBT 128 Product Description Code Database v4.34.0 |

### Version 7.10 January 3, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 2.3.2.1</td>
<td>Minor revisions to some of the Attribute Group names.</td>
<td>To provide exact consistency of the group names with the ISBT 128 Product Description Code Database.</td>
</tr>
</tbody>
</table>
| 2. 2.3.2.1  
2.3.2.2.15  
2.3.2.2.16 | Reordered the Antibody Specificity and Infection groups. | To match the order of appearance in the ISBT 128 Product Description Code Database. |
<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3.</strong></td>
<td>2.3.2.2 3.2.2.2</td>
<td>Updated Attribute Group section headers to reflect appearance in ISBT 128 Product Description Code Database.</td>
</tr>
<tr>
<td><strong>4.</strong></td>
<td>3.2.2.1</td>
<td>Minor revisions to some of the Attribute Group names.</td>
</tr>
<tr>
<td><strong>5.</strong></td>
<td>11.1</td>
<td>Updated definitions for the following Classes: • EMBRYO • OOCYTE • TESTICULAR TISSUE</td>
</tr>
<tr>
<td><strong>6.</strong></td>
<td>11.2</td>
<td>Renamed Attribute Group and updated description: • “Collection/Recovery Method&quot; to “Sperm Procurement Method”</td>
</tr>
<tr>
<td><strong>7.</strong></td>
<td>11.2</td>
<td>Updated Attribute Group description: • Type of Preservation</td>
</tr>
<tr>
<td><strong>8.</strong></td>
<td>11.2</td>
<td>Added New Attribute Groups: • Oocyte Maturation • Embryo Development • Embryo Preservation Day • Sperm Preparation</td>
</tr>
<tr>
<td><strong>9.</strong></td>
<td>11.2.1.1</td>
<td>Updated Attribute Variable Definition: • Default: Not specified</td>
</tr>
<tr>
<td>Section</td>
<td>Change</td>
<td>Rationale</td>
</tr>
<tr>
<td>---------</td>
<td>--------</td>
<td>-----------</td>
</tr>
</tbody>
</table>
| 10. 11.2.1.1 | Added New Attribute Variables:  
- Cryopreserved by slow active freezing  
- Cryopreserved by slow passive freezing  
- Cryopreserved by vitrification  
- Not cryopreserved | Requested by ARTTAG |
| 11. 11.2.1.2 | Renamed Attribute Group:  
- “Collection/Recovery Method” to “Sperm Procurement Method” | To accommodate new Assisted Reproductive Technology terminology |
| 12. 11.2.1.2 | Updated Attribute Variable Definitions:  
- Default: Not specified  
- Ejaculated | Requested by ARTTAG |
| 13. 11.2.1.2 | Added New Attribute Variables:  
- Aspirated epididymal  
- Aspirated testicular  
- Biopsy testicular | Requested by ARTTAG |
| 14. 11.2.1.3 | Added New Attribute Group and Variables:  
- Default: Not specified  
- GV  
- MI  
- MII | Requested by ARTTAG |
| 15. 11.2.1.4 | Added New Attribute Group and Variables:  
- Default: Not specified  
- Blastocyst  
- Cleavage stage  
- Fertilized oocyte  
- Morula | Requested by ARTTAG |
| 16. 11.2.1.5 | Added New Attribute Group and Variables:  
- Default: Not specified  
- Day 1  
- Day 2  
- Day 3  
- Day 4  
- Day 5  
- Day 6  
- Day 7 | Requested by ARTTAG |
<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
</table>
| 17. 11.2.1.6 | Added New Attribute Group and Variables:  
- Default: Not specified  
- Unwashed  
- Washed | Requested by ARTTAG |
| 18. 14.6 | Added New Retired Terminology section for obsolete Reproductive Tissue terms. | New Assisted Reproductive Technology terminology added and obsolete terminology were retired |
| 19. 14.6.1 | Added section for retired Attribute Groups:  
- Donor-Intended Recipient Relationship  
- Processing Status | New Assisted Reproductive Technology terminology added and obsolete terminology were retired |
| 20. 14.6.2.1 | Added section for Donor-Intended Recipient Relationship group. Retired the following Attribute Variables:  
- Default: Not specified  
- Allogeneic  
- Autologous | New Assisted Reproductive Technology terminology added and obsolete attribute variables were retired |
| 21. 14.6.2.2 | Added section for Processing Status group. Retired the following Attribute Variables:  
- Default: Not defined  
- For further processing | New Assisted Reproductive Technology terminology added and obsolete attribute variables were retired |
| 22. 14.6.2.3 | Added section for Type of Preservation Group. Retired the following Attribute Variable:  
- Cryopreserved | New Assisted Reproductive Technology terminology added and obsolete attribute variables were retired |
### Version 7.10 January 3, 2018

<table>
<thead>
<tr>
<th>Section</th>
<th>Change</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.</td>
<td>14.6.2.4</td>
<td>Added section for Sperm Procurement Group. Retired the following Attribute Variable: • Extracted</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New Assisted Reproductive Technology terminology added and obsolete attribute variables were retired</td>
</tr>
</tbody>
</table>