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2 EMA/CHMP/CAT/BWP/353632/2010
3 Committee for Medicinal Products for Human Use (CHMP)
4 Committee for Advanced Therapies (CAT)

5 **CHMP/CAT position statement on Creutzfeldt-Jakob**
6 **disease and advanced therapy medicinal products**
7 **Draft¹**

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Comments should be provided using this [template](#). The completed comments form should be sent to Alberto.Ganan@ema.europa.eu

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Keywords	Creutzfeldt-Jakob disease, gene therapy, cell therapy and tissue engineering medicinal products, donor selection criteria, tissue and blood donation.
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20 In the European regulation advanced therapy medicinal products (ATMP) include those based on gene
21 therapy, cell therapy and tissue engineering. Although they are considered biological medicinal
22 products as described in the directive 2001/83/EC, specific legislation has also been developed
23 (*Regulation (EC) no 1394/2007 of the European Parliament and of the Council of 13 November 2007*
24 *on advanced therapy medicinal products*).^{1a,1b} The composition of ATMPs may include components of
25 human origin (either as active ingredient, excipients, or raw materials used in their manufacture) and,
26 therefore, the risk of transmitting CJD or vCJD agents has to be considered.

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28 Gene therapy and somatic cell therapy medicinal products have been recently redefined in Commission
29 Directive 2009/120/EC amending Directive 2001/83/EC.^{1a,1c} For gene therapy products no specific
30 considerations are given regarding the minimization of transmission of CJD or vCJD as the same
31 requirements as for other biological products, biotechnological medicinal products obtained using
32 recombinant DNA technology or vaccines could apply. For genetically modified cells the same
33 considerations as for somatic cell therapy products (sCTP) will be appropriate. Directives 2004/23/EC,
34 2006/17 and 2006/86 set standards of quality and safety for human tissues and cells intended for
35 human applications and, therefore, their donation (in particular the donor history and screening),
36 procurement and testing are to follow the described requirements.^{1d,1e,1f} The exclusion criteria for
37 donors related to risk of transmission of diseases caused by prions in Directive 2006/17 apply.^{1e}
38 Similarly where blood cells are used, the standards of quality and safety for collection and testing in
39 Directives 2002/98/EC, 2004/33/EC, 2005/61/EC and 2005/62/EC should be followed.^{1g,1h,1i,1j} The
40 exclusion criteria for transmissible spongiform encephalopathies in Directive 2004/33/EC apply.^{1h} Other
41 official guidance on donor selection criteria for tissue and blood donation, respectively, should also be
42 taken into account.

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44 Most of the cell based medicinal products currently under clinical investigation or already in use in
45 some members states are from autologous donors, therefore, no specific considerations regarding CJD
46 or vCJD risk are required. For cell based products from allogeneic donors, the WHO classification and
47 guidelines on tissue infectivity (*WHO Guidelines on Tissue Infectivity Distribution in Transmissible*
48 *Spongiform Encephalopathies 2010*)^{2a} should also be considered as a part of the benefit-risk
49 assessment of the medicinal product. Tissue infectivity in CJD seems mainly confined to the central
50 nervous system and tissues anatomically associated with it. Regarding vCJD, infectivity has also been
51 shown associated with blood and lymphoreticular tissues so precautionary measures should be
52 considered if any of those tissues are used as the starting material for a cell based product. Where
53 relevant, the recommendations of the CHMP Position statement on Creutzfeldt-Jakob disease and
54 plasma-derived and urine-derived medicinal products should be taken into account.^{3a} For human cells
55 contained in ATMPs, there is no manufacturing process to add a further barrier to transmission of a
56 TSE agent. In any case, the final risk-benefit for the therapeutic use of these medicinal products
57 derived from human cells and tissues will have to be decided on a case-by-case basis.

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59 The collection and storage of cells from umbilical cords is becoming increasingly common in both
60 allogeneic and autologous transplantation in children and adults. These cells are of foetal origin but the
61 possibility of low levels of contamination with maternal blood can not be definitively excluded.
62 However, the likelihood of infection is considered as extremely low, since vertical transmission in
63 humans has not been observed in any prion disease.

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References:

1. European Commission

- 1a Directive 2001/83/EC of the European Parliament and the Council on the Community code relating to medicinal products for human use, OJ L 311, 28.11.2001, pp. 67-128.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2001:311:0067:0067:EN:PDF>
- 1b Regulation 1394/2007 of the European Parliament and the Council on advanced therapy medicinal products and amending Directive 2001/83 EC and Regulation (EC) No 726/2004, OJ L 324, 10.12.2007, pp. 121-137.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2007:324:0121:0137:en:PDF>
- 1c Directive 2009/120/EC of the European Parliament and the Council on the Community code relating to medicinal products for human use as regards advanced therapy medicinal products, OJ L 242, 15.9.2009, pp. 3-12.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:242:0003:0012:EN:PDF>
- 1d Directive 2004/23/EC of the European Parliament and the Council on the Community setting the standards of quality and safety for the donation, procurement, testing processing, preservation, storage and distribution of human tissues and cells, OJ L 102, 7.4.2004, pp. 48-58.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2004:102:0048:0058:en:PDF>
- 1e Directive 2006/17/EC of the European Parliament and the Council on the Community as regards certain technical requirements for the donation, procurement and testing of human tissues and cells, OJ L 38, 9.2.2006, pp. 40-52.
http://eur-lex.europa.eu/LexUriServ/site/en/oj/2006/l_038/l_03820060209en00400052.pdf
- 1f Directive 2006/86/EC of the European Parliament and the Council on the Community implementing Directive 2004/23/EC as regards traceability requirements, notification of serious adverse reactions and events and certain technical requirements for the coding, processing, preservation, storage and distribution of human tissues and cells, OJ L 294, 25.10.2006, pp. 32-50.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:294:0032:0050:EN:PDF>
- 1g Directive 2002/98/EC of the European Parliament and the Council setting standards of quality and safety for the collection, testing, processing, storage and distribution of human blood and blood components and amending Directive 2001/83 EC, OJ L 33, 8.2.2003, pp. 30-40.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2003:033:0030:0040:EN:PDF>
- 1h Directive 2004/33/EC implementing Directive 2002/98/EC of the European Parliament and of the Council as regards certain technical requirements for blood and blood components, OJ L 91, 30.3.2004, pp.25-39.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2004:091:0025:0039:EN:PDF>
- 1i Directive 2005/61/EC implementing Directive 2002/98/EC of the European Parliament and of the Council as regards traceability requirements and notification of serious adverse reactions and events, OJ L 256, 1.10.2005, pp. 32-40.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2005:256:0032:0040:EN:PDF>
- 1j Directive 2005/62/EC implementing Directive 2002/98/EC of the European Parliament and of the Council as regards certain technical requirements for blood and blood components, OJ L 256, 1.10.2005, pp.41-48.
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2005:256:0041:0048:EN:PDF>
- ### 2. WHO
- 2a WHO Guidelines on Tissue Infectivity Distribution in Transmissible Spongiform Encephalopathies (2010).
<http://www.who.int/bloodproducts/tablestissueinfectivity.pdf>

- 127 3. **European Medicines Agency**
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129 3a CHMP Position Statement on Creutzfeldt-Jacob and plasma-derived and urine-derived medicinal
130 products. (EMA/CPMP/BWP/2879/02/rev 1) (Currently under revision)
131 <http://www.ema.europa.eu/pdfs/human/press/pos/287902enfin.pdf>
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