

HFEA Licence Committee Meeting

25 November 2010

21 Bloomsbury Street London WC1B 3HF

Minutes – Item 2

Centre 0102 (Guys Hospital) – PGD for Ataxia Telangiectasia OMIM# 208900

Members of the Committee:
David Archard (lay) – Chair
Debbie Barber (professional)
Anna Carragher (lay)
Sally Cheshire (lay)
Mair Crouch (lay)
Jane Dibblin (lay)
Rebekah Dundas (lay)
Sue Price (professional)

Committee Secretary:
Terence Dourado

Legal Adviser:
Graham Miles, Morgan Cole

Declarations of Interest: members of the Committee declared that they had no conflicts of interest in relation to this item.

The following papers were considered by the Committee:

- Executive Summary
- PGD Application form
- Application form attachment (Ataxia Telangiectasia.doc)
- Redacted Peer Review
- Genetic Alliance opinion

The Committee also had before it:

- HFEA Protocol for the Conduct of Licence Committee Meetings and Hearings
- 8th edition of the HFEA Code of Practice
- Human Fertilisation and Embryology Act 1990 (as amended)
- Decision trees for granting and renewing licences and considering requests to vary a licence (including the PGD decision tree); and
- Guidance for members of Authority and Committees on the handling of conflicts of interest approved by the Authority on 21 January 2009.
- Guidance on periods for which new or renewed licences should be granted
- Standing Orders and Instrument of Delegation
- Indicative Sanctions Guidance

- HFEA Directions 0000 – 0012
- Guide to Licensing
- Compliance and Enforcement Policy
- Policy on Publication of Authority and Committee Papers

1. The Committee had regard to its Decision Tree and was satisfied that the Centre has an established PGD programme and has considerable experience of carrying out PGD.
2. The Committee was satisfied that the Centre's proposed purpose of testing the embryos was as set out in paragraph 1ZA(1)(b) of schedule 2 of the Act, ie. 'where there is a particular risk that the embryo may have any gene, chromosome or mitochondrion abnormality, establishing whether it has that abnormality or any other gene, chromosome or mitochondrion abnormality'.
3. The Committee noted that Ataxia Telangiectasia is inherited in an autosomal recessive pattern. If an embryo inherits a copy of the faulty gene from both parents it will develop the disease, i.e. there is a 25% chance of the embryo having the abnormality.
4. The Committee noted that there is a significant risk that a person with the abnormality will develop a serious medical condition because it is fully penetrant.
5. The Committee was satisfied that the condition is serious. It presents in early childhood, symptoms which include delay in motor milestones, discomposure and frequent collapse, followed by progressive ataxia (lack of muscle control leading to poor balance/coordination). The condition affects the individual's fine motor skills such as use of hands/fingers impacting upon their ability to eat, dress, write, etc. Walking becomes limited with age; and speech and swallowing difficulties also develop. Children have restricted eye movements and difficulty keeping their heads upright. On average, individuals with the condition require a wheelchair by the age of ten and require assistance with everyday activities of living.
6. The Committee noted that children are more susceptible to infections as one of the symptoms of the condition is immune deficiency. Children also have an increased risk of developing leukaemia (cancer of blood cells) or lymphoma (cancer of lymphatic tissue). Death usually results from deteriorating lung function and/or major infection.

7. The Committee noted the variability of phenotype of the condition; however, it was minded to base its consideration on the most serious form of the condition.
8. On the basis of the information presented, the Committee was satisfied that there is a significant risk that a person with the abnormality will have or develop a serious physical or mental disability, a serious illness or any other serious medical condition. Accordingly, it was appropriate to grant the application under 1ZA(1)(b) of Schedule 2 to the Act.
9. The Committee agreed that the licence should be varied to authorise the testing of embryos for Ataxia Telangiectasia OMIM # 208900, and that no conditions should be put on the licence in relation to the variation. The Committee confirmed that this condition will be added to the published list of conditions for which PGD may be carried out.

Signed...  ... Date... 8/12/2010

David Archard (Chair)