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## Scientists predict stem cell trials by 2004

Science editor
The first human trials of embryo etem cells as a treatment for Parkinson's disease could take place within three to five years, experts said yesterday.

A vote in the House of Lords on Monday night cleared the last political hurdle to a change in the rules governing research on human embryos.

For the past IO years, the only use permitted has been for infertility treatment and research. Now, against hotty

gets are likely to be the slow, related to the slow of the collection and preservation of stem cells from up to 1,000 existing embryos, all of which must be destroyed if not wised for fertility treatment. These 1,000 dishes of frozen cells would, said Richard Gardner of Oxford University, cover the range needed for safe transplantation. The hope is that injected stem cells of the correct type would migrate to the damaged organs and at least relieve symptoms.

research said yesterday that the Lords verlick was "a decision and hope" and that scientists needed to develop their knowledge and techniques as rapidly as possible. "Our initial target will be to generate nerve cells that might be used to treat neurodegenrative conditions such as Parkinson's or Huntington's diseases. We are only at the beginning of this research, however, and I think it will be at least five years and probably

somewhat longer before the first cell transplantations into humans."

Other diseases in the researchers' sights include diabets, mucular dystroph, multiple sclerosis, stroke and spinal cord injury.

Although much of the debate centred on so-called therapeutic cloning, the creation of embryos from cells fertilised by transferred DNA, this is not likely to happen in the near future. "In practical terms it isn't a realisite thing for helping patients on a large