

Mitochondrial Replacement Techniques: Ethical, Social, and Policy Considerations



Mitochondrial replacement techniques (MRTs) are designed to prevent the transmission of mitochondrial DNA (mtDNA) diseases from mother to child. While MRTs, if effective, could satisfy a desire of women seeking to have a genetically related child without the risk of passing on mtDNA disease, the technique raises significant ethical and social issues. It would create offspring who have genetic material from two women, something never sanctioned in humans, and would create mitochondrial changes that could be heritable (in female offspring), and therefore passed on in perpetuity. The manipulation would be performed on eggs or embryos, would affect every cell of the resulting individual, and once carried out this genetic manipulation is not reversible. Mitochondrial Replacement Techniques considers the implications of manipulating mitochondrial content both in children born to women as a result of participating in these studies and in descendants of any female offspring. This study examines the ethical and social issues related to MRTs, outlines principles that would provide a framework and foundation for oversight of MRTs, and develops recommendations to inform the Food and Drug Administration's consideration of investigational new drug applications.

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Release and briefing of Committee report, Mitochondrial Mitochondrial Replacement Techniques: Ethical, Social,

and Policy on the Ethical and Social Policy Considerations of Novel Techniques for Prevention of **Mitochondrial Replacement Techniques - NCBI Bookshelf** Mitochondrial Replacement Techniques: Ethical, Social, and Policy on Health Sciences Policy Committee on the Ethical and Social Policy Considerations of **Mitochondrial Replacement Techniques: Ethical, Social, and Policy** The Committee on Ethical and Social Policy Considerations of Novel Techniques for Prevention of Maternal Transmission of Mitochondrial **Mitochondrial Replacement Techniques: Ethical, Social, and Policy** Public Discussion Meeting for the Report Mitochondrial Replacement Techniques: Ethical, Social, and Policy Considerations **Mitochondrial Replacement Techniques: Ethical, Social, and Policy** The final report, Mitochondrial Replacement Techniques: Ethical, Social, and Policy Considerations, provides an ethical analysis of ethical, **3 Do Ethical, Social, and Policy Considerations Preclude MRT** Mitochondrial replacement techniques (MRTs) are designed to prevent the transmission of mitochondrial DNA (mtDNA) diseases from mother to child. **Ethical and Social Policy Considerations of Novel Techniques for** Mitochondrial Replacement Techniques: Ethical, Social and Policy Considerations - A Canadian Perspective. 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Front Cover National Academies of Sciences, **Mitochondrial Replacement Techniques: Ethical, Social, and Policy** Committee on the Ethical and Social Policy Considerations of Novel Techniques for Prevention of Maternal Transmission of Mitochondrial DNA Diseases Board **Appendix A: Study Approach Mitochondrial Replacement** Mitochondrial Replacement Techniques: Ethical, Social, and Policy Considerations. Washington, DC: The National Academies Press. doi: 10.17226/21871. ?. Francoise Baylis Mitochondrial Replacement Techniques: Ethical, Social and Policy Considerations The Royal Society of Canada is pleased to announce the **Mitochondrial Replacement Techniques: Ethical, Social, and Policy** Mitochondrial Replacement Techniques: Ethical, Social, and Policy the primary consideration is minimizing the risk of harm to the child born **Do Ethical, Social, and Policy Considerations Preclude MRT** The final report, Mitochondrial Replacement Techniques: Ethical, Social, and Policy Considerations, provides an ethical analysis of ethical, **Mitochondrial Replacement Techniques: Ethical, Social, and Policy** Mitochondrial Replacement Techniques: Ethical, Social, and Policy on the Ethical and Social Policy Considerations of Novel Techniques for Prevention of **Appendix B: Summary of MRT Research Mitochondrial** At the request of the U.S. Food and Drug Administration (FDA), the National Academies of Sciences, Engineering, and Medicine assembled an ad hoc committee tasked with developing a consensus report regarding ethical, social, and policy considerations related to mitochondrial replacement techniques (MRT), which entail **Mitochondrial Replacement Techniques: Ethical, Social and Policy** Release and briefing of Committee report, Mitochondrial Replacement Techniques: Ethical, Social, and Policy Considerations **Mitochondrial Replacement Techniques: Ethical, Social, and Policy** Clinical Investigations of Mitochondrial Replacement Techniques Are the primary consideration is minimizing the risk of harm to the child born as a result In examining the ethical, social, and policy issues associated with **Mitochondrial Replacement Techniques Ethical Social and Policy** The unique combination of characteristics of mitochondrial replacement techniques (MRT) raises a novel collection of ethical, social, and policy issues. First **committee on the ethical and social policy considerations of - NCBI** Mitochondrial Replacement Techniques: Ethical, Social, and Policy Considerations. Washington, DC: The National Academies Press. doi: 10.17226/21871. ?. **Clinical Investigations of Mitochondrial Replacement Techniques Are** Ethical and Social Policy Considerations of Novel Techniques for Prevention of Maternal Transmission of Mitochondrial DNA Diseases **4 Regulation and Oversight of MRT in Humans Mitochondrial** **Mitochondrial Replacement Techniques: Ethical, Social, and Policy** Mitochondrial Replacement Techniques: Ethical, Social, and Policy Considerations. Washington, DC: The National Academies Press. doi: 10.17226/21871. ?. **Mitochondrial Replacement Techniques: Ethical, Social and Policy** Mitochondrial replacement techniques (MRTs) are designed to Authors: Committee on the Ethical and Social Policy Considerations of

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