Advancements and Challenges in Transplantation Medicine: A **Comprehensive Review**

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Abstract

This comprehensive review explores recent breakthroughs and persistent challenges in transplantation medicine. Covering innovations in organ transplantation techniques, immunology, xenotransplantation, and regenerative medicine, the article highlights the evolution towards minimally invasive procedures, personalized treatment plans, and emerging technologies. Despite these advancements, challenges like the organ shortage and the fnancial burden of immunosuppressive medications persist. The review emphasizes the critical need for ongoing research, international collaboration, and heightened public awareness to address these challenges. Ultimately, the article provides a succinct overview of the feld's progress and the avenues for future advancements in transplantation medicine.

Keywords:

Introduction

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Personalized medicine and biomarkers

Challenges and future directions

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Conclusion

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