

Immunosuppressive Therapy in Organ Transplantation: Key Considerations

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Abstract

Organ transplantation has become a life-saving procedure for patients with end-stage organ failure.

However, the success of transplantation hinges on effective immunosuppressive therapy to prevent rejection of the transplanted organ by the recipient's immune system. This article provides a comprehensive overview of immunosuppressive therapy in organ transplantation, discussing the underlying immunological mechanisms of rejection, the various classes of immunosuppressive agents, their mechanisms of action, associated side effects, and key considerations for optimizing immunosuppressive regimens. The article further explores emerging strategies aimed at minimizing long-term immunosuppression and promoting tolerance.

Abstract (continued) ...

1. Introduction

2. Immunological Mechanisms of Rejection

3. Immunosuppressive Agents

4. Clinical Considerations

5. Emerging Strategies

6. Conclusion

7. References

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