

## COMPLICATIONS IN THE POST-OPERATIVE KIDNEY TRANSPLANT

---

*Bernardo Freire Formozinho de Sá*

*Ana Carolina Firmino*

*Gabriel Pacheco Ribeiro*

*Júlia Medeiros Valente*

*Lara Bastos Frango de Oliveira*

*Laura de Abreu Festa Britto*

*Mariana Campos Vale*

*Rafaela Schott Ferraz Alves*

All content in this magazine is licensed under a Creative Commons Attribution License. Attribution-Non-Commercial-Non-Derivatives 4.0 International (CC BY-NC-ND 4.0).



**Keywords:** Post-operative, kidney transplant, surgery, complication.

## **OBJECTIVES**

This study aims to analyze the consequent post-surgical complications of kidney transplantation, addressing clinical and epidemiological aspects, aiming to improve the clinical and surgical approach by applying effective care that has a positive impact on patients' quality of life.

## **METHODS**

This article consists of a literature review based on scientific studies published from 2010 to 2019 through data searches on the Scielo, Google Scholar, PebMed Portal, Revista Uningá, Faculty of Medicine of ``Universidade de Coimbra`` and Brazilian Transplant Association of Organs. The search keywords were: Post-operative complications and kidney transplant.

## **RESULTS**

Chronic renal failure is defined as the loss of renal function, which is progressive and irreversible, resulting in poor renal filtration that will retain urea and other nitrogenous products from the blood that would have to be degraded. Treatment, to improve the patient's prognosis, consists of Renal Replacement Therapy (RRT), which can be performed in three ways: Hemodialysis, dialysis and kidney transplant. When dealing with kidney transplantation, it is observed that many

patients who undergo it are successful, while others demonstrate complications 4. The main complications described in the literature vary: Initial graft dysfunction, rejection, various infections, which can be bacterial, viral or fungal, complications metabolic, cardiovascular and bone 5. A 2013 study showed that the main complications were rejection, in 32.1% of patients, and infection, in 29.2%. Bacterial infections are the main cause of respiratory and urinary infections, common in the first month - followed by viral and fungal infections - after this period, between the first and sixth months, viral infections become more common when compared to bacterial ones, especially Cytomegalovirus. Another study, from 2010, demonstrated that the most prevalent infectious complications were urinary tract infection (31.3%), cytomegalovirus infections (12%), surgical incision infection (10.3%), herpes virus infection (9 .1%), lung infection (5.2%) and bloodstream infection (4.3%).

## **CONCLUSION**

The best prognosis for kidney failure was observed with Renal Replacement Therapy (RRT), which can be performed in three ways, including kidney transplantation. While many patients exposed to kidney transplantation are successful, some still experience complications, the main ones being rejection and infection, which can have different etiologies. Therefore, the relevance of this topic for the search for a better quality of life for patients is evident.

## REFERENCES

- 1) Smeltzer SC, Bare BG. Brunner e Suddarth: Tratado de enfermagem médico-cirúrgica. 6a ed. Rio de Janeiro: Guanabara Koogan; 2002.
- 2) Fontoura FAPA. Compreensão de vida de pacientes submetidos ao transplante renal: significados, vivências e qualidade de vida. Mato Grosso do Sul: Campo Grande. 2012. 3) Almeida D.E.S, Ceccato M.G.B, Júnior A.A.G, Acurcio F.A. Avaliação normativa do processo de prescrição e dispensação de imunossuppressores para pacientes transplantados renais no estado de Minas Gerais, Brasil. 2008.
- 3) Almeida D.E.S, Ceccato M.G.B, Júnior A.A.G, Acurcio F.A. Avaliação normativa do processo de prescrição e dispensação de imunossuppressores para pacientes transplantados renais no estado de Minas Gerais, Brasil. 2008
- 4) Corrêa APA. Complicações em pacientes transplantados renais internados em um hospital universitário do sul do Brasil. Rio Grande do Sul: Porto Alegre. 2011
- 5) Manfro RC, Carvalho GF. Simpósio sobre Transplantes: Transplante renal. Rio Grande do Sul: Porto Alegre, 2003.
- 6) CORREA, Ana Paula Almeida et al . Complicações durante a internação de receptores de transplante renal. **Rev. Gaúcha Enferm.**, Porto Alegre , v. 34, n. 3, p. 46-54, Sept. 2013 .
- 7) TIZZO, Juliana Moura & MACEDO, Luciana Conci. Principais complicações e efeitos colaterais Pós-transplante renal. Revista UNINGÁ Review, Vol.24,n.1,pp.62-70 (Out - Dez 2015).
- 8) SOUSA, Sirlei Regina de et al. Incidência e fatores de risco para complicações infecciosas no primeiro ano após o transplante renal.