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Belatacept in renal transplantation in comparison to tacrolimus and molecular understanding of resistance pattern: Meta-analysis and systematic review

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Abstract

BACKGROUND

The T-cell costimulation blocking agent belatacept has been identified as a possible substitute for calcineurin inhibitors, however, no consensus has been established against its use over the standard care agent Tacrolimus.

Match Overview

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Figure 1 Glucose metabolism after kidney transplantation. Comparison of OGTT-derived parameters in tac-KTRs versus bela-KTRs. Insulin release is shown as OGTT-derived AUC insulin, by [Glc] 2h (left). Insulin sensitivity is shown as OGTT-derived OGIS index, by [Glc] 2h (right). The regression lines included 2 splines for **tacrolimus** with a knot at 140 mg/dL and 1 spline for **belatacept** up to 140 ...

Author: Martin M. Müller, Elisabeth Schwaiger,... **Publish Year:** 2020

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Author: Janani Rangaswami, Roy O Mathew, Rav...

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Author: Calvin J. Meaney, Mario V. Beccari

Publish Year: 2015

[Practical Recommendations for Long-term Management of ...](#)

<https://journals.lww.com/transplantjournal/Fulltext/2017/04002/Practical...>

Oct 14, 2016 · This consensus is backed up by a **systematic review** and meta-analysis of 64 studies (32 randomized controlled, 32 observational), published in 2013, which found that **tacrolimus** trough concentrations of 6 to 10 ng/mL in the first month posttransplant led to a twofold reduction in **renal** impairment, with no increase in TCMR. 158 A further study ...

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Calcineurin Inhibitor Nephrotoxicity | American Society of ...

<https://cjasn.asnjournals.org/content/4/2/481> ▾

Feb 01, 2009 · The use of the calcineurin inhibitors cyclosporine and **tacrolimus** led to major advances in the field of **transplantation**, with excellent short-term outcome. However, the chronic nephrotoxicity of these drugs is the Achilles' heel of current immunosuppressive regimens. In this **review**, the authors summarize the clinical features and histologic appearance of both acute and chronic calcineurin ...

Cited by: 1154

Author: Maarten Naesens, Dirk R. J. Kuypers, Minni...

Publish Year: 2009

(PDF) Two decades of tacrolimus in renal transplantation ...

<https://www.researchgate.net/publication/304074233...>

kidney transplant recipients treated with **tacrolimus**: a **systematic review** and **meta-analysis** of observational studies. Pharmacogenomics J. 2015;15(1):38-48.

Tacrolimus Trough Levels, Rejection and Renal Impairment ...

<https://www.researchgate.net/publication/227163107...>

Tacrolimus Trough Levels, Rejection and **Renal** Impairment in Liver **Transplantation**: A **Systematic Review** and **Meta-Analysis** June 2012 American Journal of **Transplantation** 12(10)

Novel Drugs in Kidney Transplantation - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/B9780128017340000217>

Jan 01, 2017 · P.S. Macklin, P.J. Morris, S.R. KnightA **systematic review** of the use of rituximab for desensitization in **renal transplantation** **Transplantation**, 98 (8) (2014), pp. 794-805 View Record in Scopus Google Scholar

Author: Sindhu Chandran, Flavio Vincenti

Publish Year: 2017