

# MED RAG System - Chat Export

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## Query 1:

A patient who underwent a cardiac transplant is taking cyclosporine for immunosuppression. Which of the following common cardiovascular medications could potentially cause a subtherapeutic level of cyclosporine, and why?

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## Answer:

Based on medical literature review: Tacrolimus, an important constituent of the immunosuppressant regimen for renal transplant recipients, can result in posttransplant diabetes mellitus. The adverse effect profile of tacrolimus is yet to be completely understood. [PMID: 36757165] Solid organ transplant recipients on long-term immunosuppressive medication are at increased risk of developing malignancy, and treatment of advanced cancers with angiogenesis inhibitors in this context has not been widely studied. We present a case of recurrent high-grade serous ovarian carcinoma treated with paclitaxel and bevacizumab in the context of prior renal transplantation where the patient responded well to treatment with controlled toxicities, discussing the potential for increased rates of adverse events and drug interactions in this select population.. [PMID: 33499164] Chronic kidney disease (CKD) represents a major public health issue worldwide and entails a high burden of cardiovascular events and mortality. Dyslipidaemia is common in patients with CKD and it is characterized by a highly atherogenic profile with relatively low levels of HDL-cholesterol and high levels of triglyceride and oxidized LDL-cholesterol. [PMID: 32065354] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. PMID: 36757165

**Title:** Adverse Effects of Tacrolimus and Its Associated Risk Factors in Renal Transplant Recipients.

**Specialty:** diabetes

2. PMID: 33499164

**Title:** Angiogenesis Inhibitors as Anti-Cancer Therapy Following Renal Transplantation: A Case Report and Review of the Literature.

**Specialty:** oncology

3. PMID: 32065354

**Title:** Management of dyslipidaemia in patients with chronic kidney disease: a position paper endorsed by the Italian Society of Nephrology.

**Specialty:** nephrology

