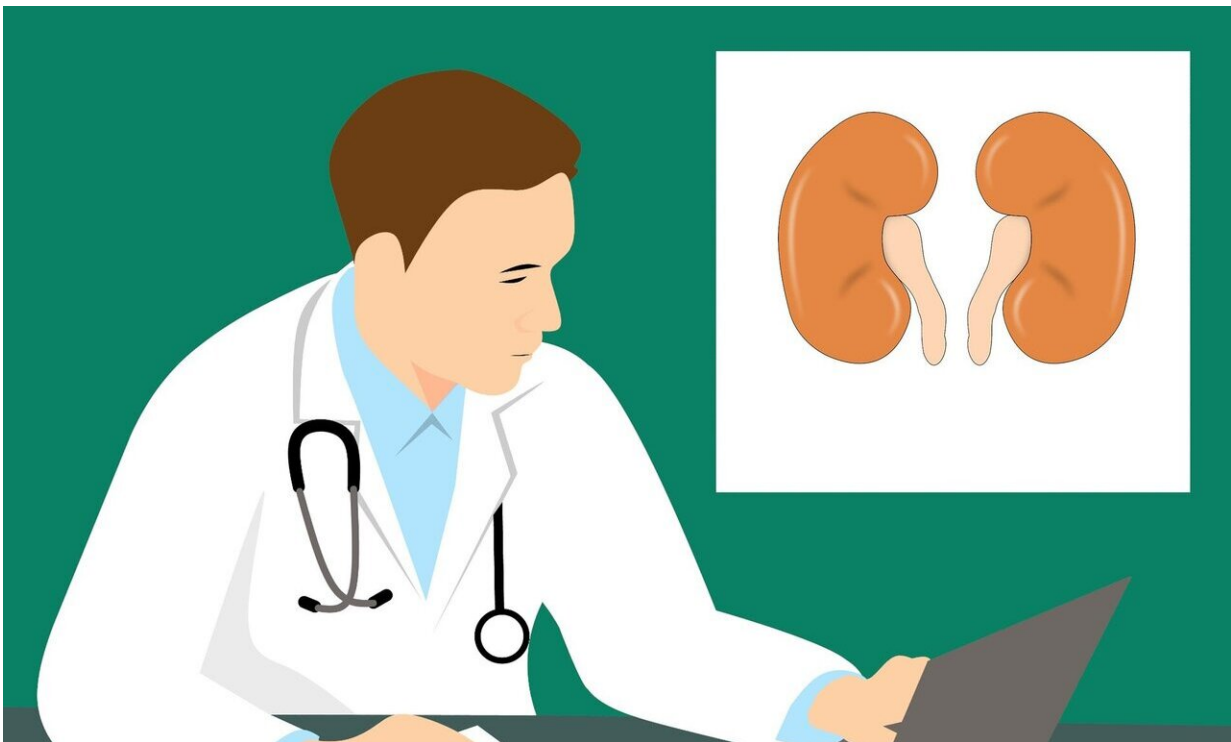


Coronavirus vaccination: Kidney transplant patients hardly develop any protection

December 21 2021



Credit: CC0 Public Domain

Even after three vaccinations, kidney transplant patients who have to take immunosuppressive drugs on a permanent basis fail to develop adequate protection against SARS-CoV-2. This is the finding of a study conducted by the Department of Medicine III at MedUni Vienna and University Hospital Vienna, which has now been published in the journal

JAMA Internal Medicine. Based on these results, the Department of Medicine III is starting a new study into the efficacy and safety of a human antibody cocktail against SARS-CoV-2 in those patients who have not developed immunity as a result of vaccination.

Following the transplantation of an organ such as the heart, lungs or kidneys, patients have to take [immunosuppressive drugs](#) for the rest of their lives. These prevent rejection of the transplanted organ, but also weaken the response to vaccines. A [team](#) led by Roman Reindl-Schwaighofer, Andreas Heinzl and Rainer Oberbauer from the Division of Nephrology of the Department of Medicine III at MedUni Vienna and University Hospital Vienna has investigated the efficacy of the Coronavirus vaccine in patients who have had a [kidney transplant](#). The results show that, even after the third vaccination, around 90% of patients have not built up adequate cellular and humoral protection against the SARS-CoV-2 virus, regardless of whether they received an mRNA or a vector vaccine.

Current study investigates the efficacy of coronavirus drug

These results are now being used as a basis for a further study starting at the Division of Nephrology of the Department of Medicine III in the group of patients who failed to develop any protection after the third vaccination. This will investigate the efficacy and safety of a human antibody cocktail against SARS-CoV-2.

More information: Roman Reindl-Schwaighofer et al, Comparison of SARS-CoV-2 Antibody Response 4 Weeks After Homologous vs Heterologous Third Vaccine Dose in Kidney Transplant Recipients, *JAMA Internal Medicine* (2021). [DOI: 10.1001/jamainternmed.2021.7372](https://doi.org/10.1001/jamainternmed.2021.7372)

Provided by Medical University of Vienna

Citation: Coronavirus vaccination: Kidney transplant patients hardly develop any protection (2021, December 21) retrieved 4 July 2023 from <https://medicalxpress.com/news/2021-12-coronavirus-vaccination-kidney-transplant-patients.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.