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How to apply genetics to the transplant recipient

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Genetic testing is poised to play an increasing role in the care of patients with kidney disease. The role of genetic testing in kidney transplantation is not well established.
Growth in knowledge of the genetics of kidney disease has revealed that significant percentages of patients with diverse types of nephropathy have causative mutations.
Genetic associations with AR in kidney and liver are mostly weak, and in most cases, the associations have not been reproducible. A limitation in the study of AR is the lack of sufficiently large populations that account for population stratification to study the AR phenotype.
Actionable pharmacogenomic variants are also common in transplant recipients and have implications for medications used in transplant, but yet are not broadly incorporated into practice.
This review will explore the ways in which genetic testing may be applied to improve the care of kidney transplant recipients and donors.