

Organ transplantation in the presence of HIV

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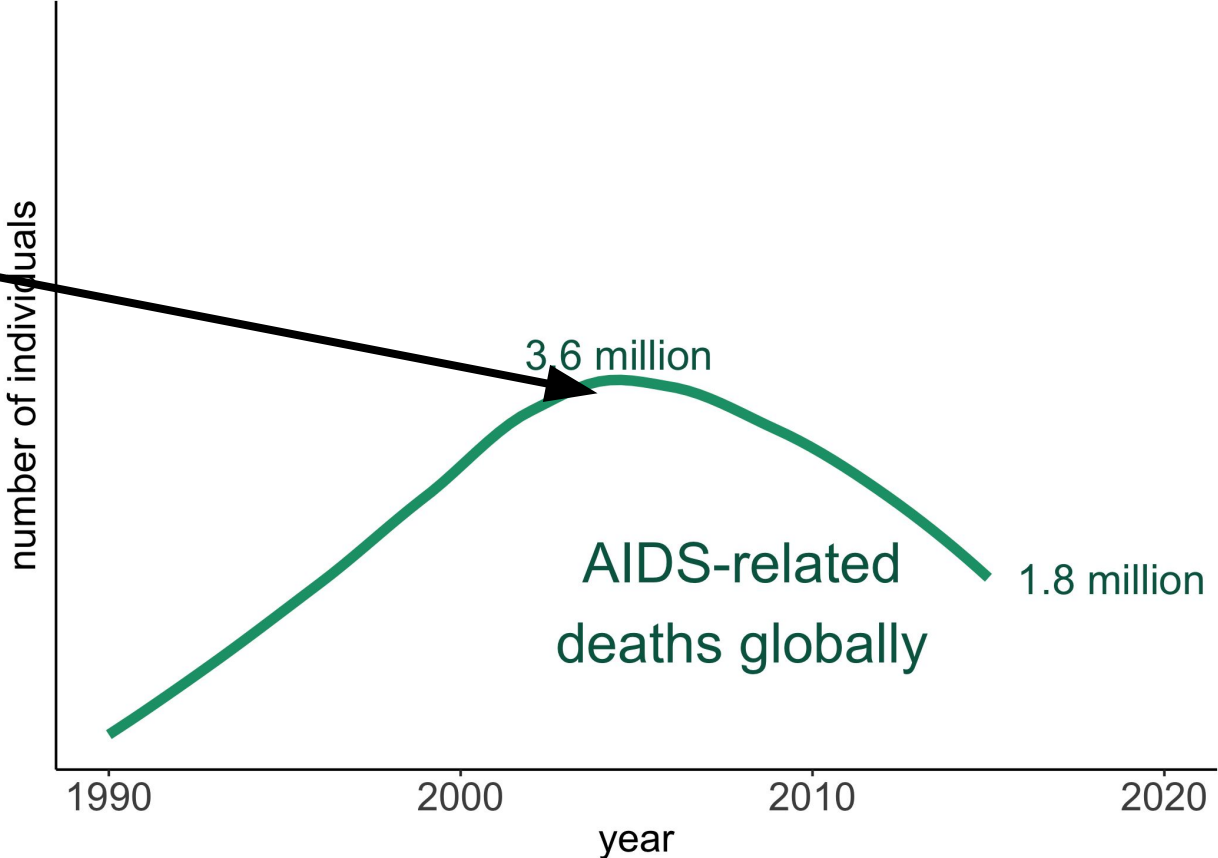
Bin Yu

Jas Sekhon

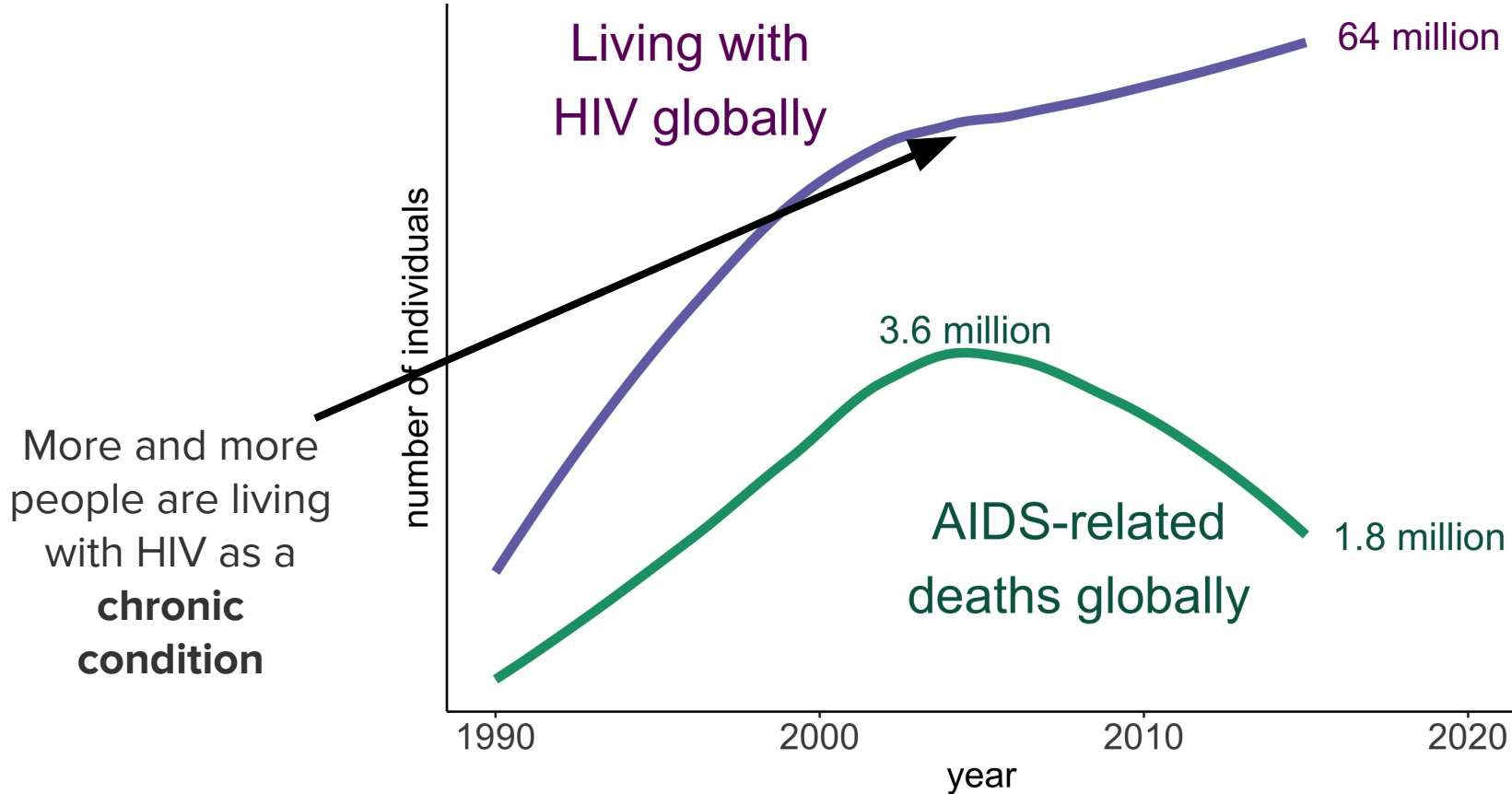
HIV/AIDS



HAART led to a significant reduction in HIV **mortality**



HIV/AIDS



More and more people are living with HIV as a **chronic condition**

Living with HIV globally

64 million

3.6 million

AIDS-related deaths globally

1.8 million

number of individuals

year

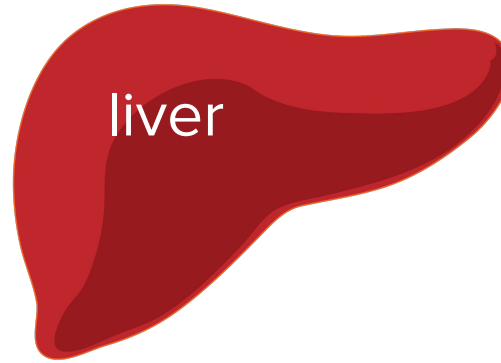
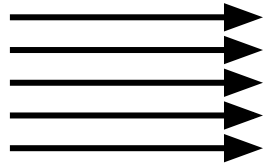
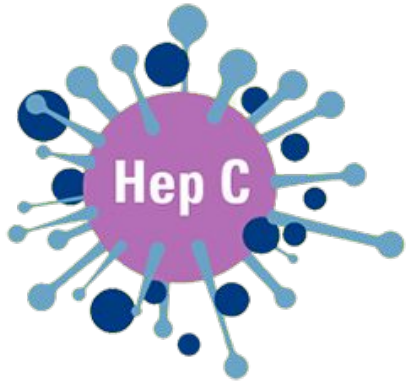
1990

2000

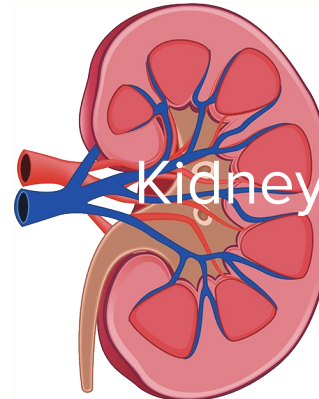
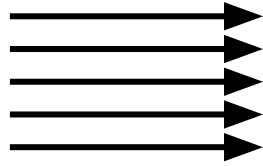
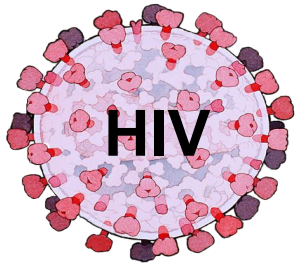
2010

2020

HIV causes kidney and liver disease

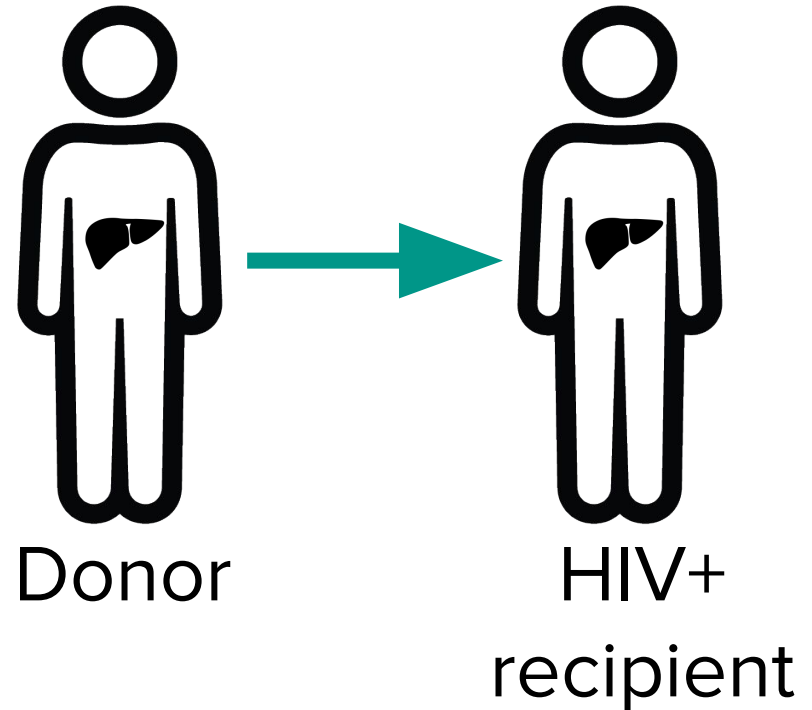
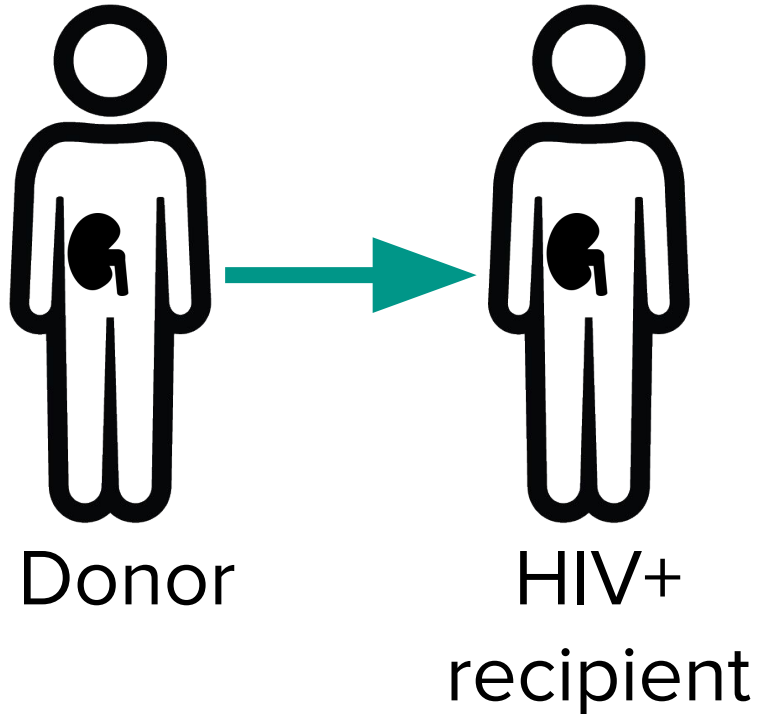


14-18% of all
HIV-related
deaths



30% have
abnormal
renal function

Increased demand for **kidney and liver transplants**
in HIV patients



Initial transplantation outcomes

Survival outcomes comparable to
HIV-negative recipients



Initial transplantation outcomes

Survival outcomes comparable to
HIV-negative recipients

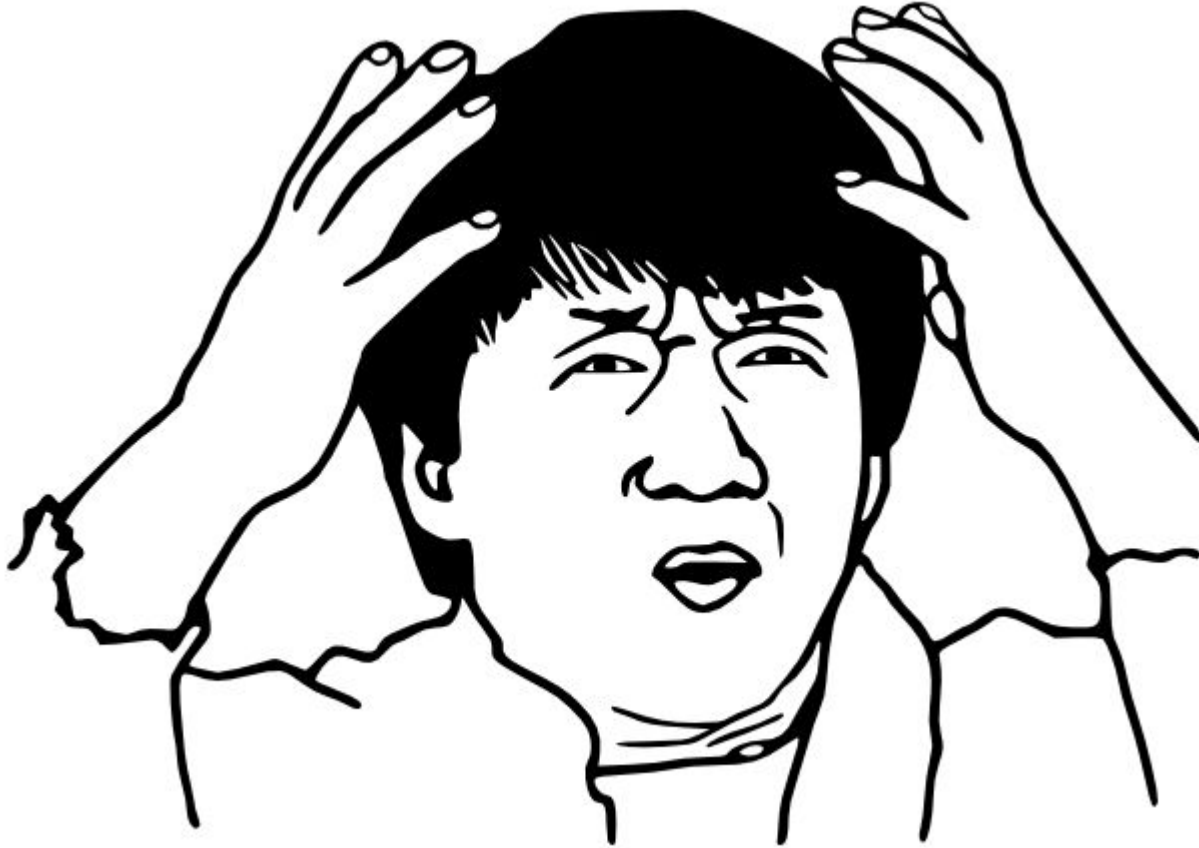


but...

Rejection rates are 2-3x higher than
HIV-negative recipients



Initial transplantation outcomes

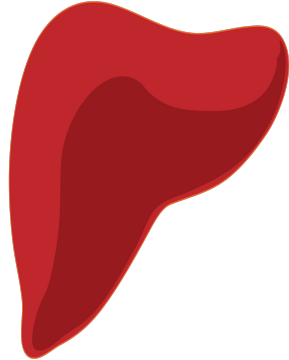


**Prospective UCSF trial
November '03 - June '09**

Prospective trial: Stock et al. (2010), Roland et al. (2016)

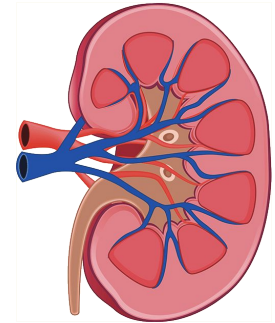
Liver transplant recipients

125 X



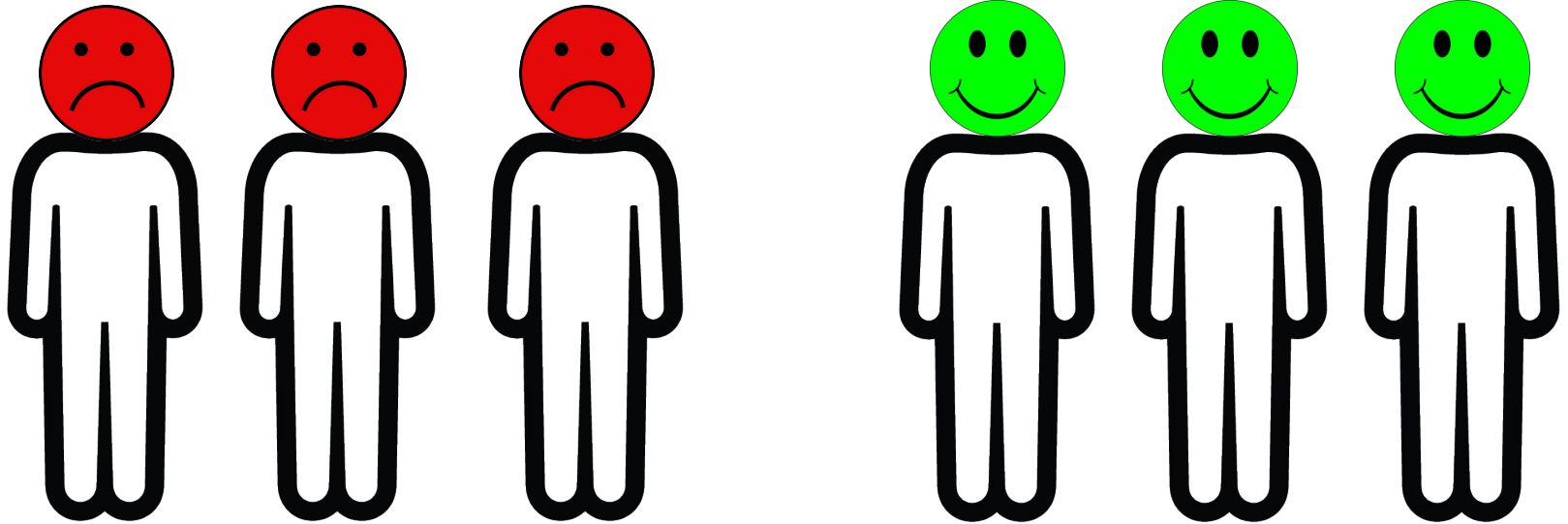
Kidney transplant recipients

150 X

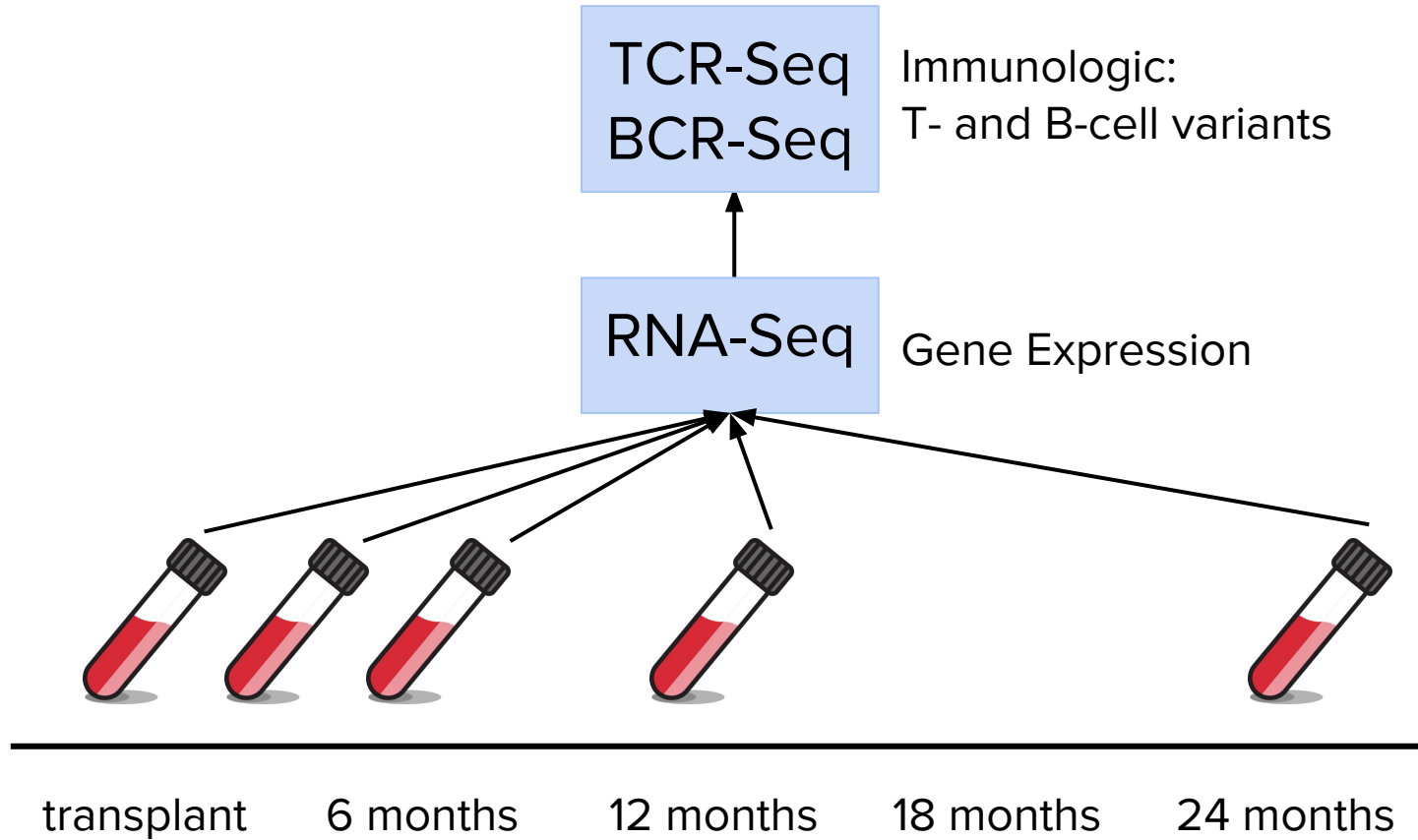


Cohort matching

Identify differences between matched cohorts of **rejectors** and **non-rejectors**



Study details



Thanks!