Liquid chromatography mass spectrometry (LCMS) has become the reference standard for measuring immunosuppressant drug concentrations. The older immunoassays are still used in our pathology service and overestimate drug concentrations by up to 50%, thereby contributing to organ rejection. In analogy to a kidney nephron, we outline our knowledge to action plan.

Evidence-based implementation process
- Purchase of equipment
- Staff training
- Working with stakeholders

This part is expected to be most time-consuming

Barriers
- Requirements for capital investment and staff upskilling
- Implementation currently not incentivised

Facilitators
- Enthusiastic implementation group
- Grant support
- Building on implementations elsewhere
- Outcome aligns with organizational values of Innovation and Excellence

Accurate drug levels in our patients will make their transplants last longer