

Kingsmede Supports Life-Changing Kidney Research

Kingsmede is proud to support cutting-edge medical research that has the power to transform lives.

Through our charitable donations, we're helping fund a world-first project aimed at improving care for kidney transplant recipients—led by renowned nephrologist **Professor Carol Pollock** and her research team.

A Smarter, Safer Way to Diagnose Transplant Complications

Today, diagnosing complications after a kidney transplant typically requires a **biopsy**—an invasive and sometimes risky procedure. Unfortunately, not all patients are eligible for a biopsy, and the process can delay urgent treatment.

This research project is developing an **innovative, non-invasive urine test** powered by **artificial intelligence**. It offers a faster, safer way to identify post-transplant issues without the need for surgery.

Here's how it works:

- The kidneys naturally shed thousands of cells into urine each day.
 - Using a patented imaging technique, these **urinary kidney cells** are scanned for unique biological signals.
 - AI then analyses these signals to accurately diagnose the underlying cause of transplant dysfunction—whether it's **acute rejection, tissue damage, or chronic scarring**.
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Promising Results and Next Steps

In a pilot study, the test showed **over 90% accuracy**, closely matching traditional biopsy results. It provides answers within **two hours**, helping doctors make timely treatment decisions.

A full-scale clinical trial is now underway at major Sydney hospitals, including **Royal North Shore, Royal Prince Alfred, and Westmead**. The project is also being supported by **Revvity**, a global biotechnology firm, to help scale and implement the solution.

Transforming Kidney Care

This groundbreaking research has the potential to:

- Reduce reliance on biopsies
- Improve diagnosis speed and accuracy

- Lower healthcare costs
- Minimize hospital stays for transplant recipients

Ultimately, it could reshape how kidney transplant complications are diagnosed—delivering safer, faster, and more accessible care to patients around the world.