**Project Title:** Renal stones after kidney transplantation in childhood.  

**Code:** CHW2

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<tr>
<th><strong>Host School/ Institute</strong></th>
<th>The Children’s Hospital at Westmead Clinical School</th>
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<tr>
<td><strong>Address:</strong></td>
<td>Kid’s Research Institute, The Children’s Hospital at Westmead Clinical School, Westmead, 2145</td>
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**Project Type:** Clinical, Data Analysis

**Project Category:** Nephrology/Urology, Paediatrics/Child Health, Transplantation

**Project Keywords:**
1. Kidney transplant  
2. Renal stones  
3. Children

**Project Description:**

Renal calculus formation is a well-recognised complication of renal transplantation occurring in about 6% of adult transplants. There is good data regarding the incidence, precipitating factors and treatment of post-transplant calculi in adults but very limited data in paediatrics. Calculus in a renal graft has serious implications as it has the potential to move and cause obstruction in the pelvis or ureter resulting in acute renal failure, therefore early detection and intervention is imperative.

The proposed study will be a case note review (the majority of the notes will be available electronically). There have been just over 150 paediatric kidney transplants performed at the Children’s Hospital at Westmead over the last 20 years. We will review the notes of all patients for evidence of stone formation in the allograft. Data collected will include demographics, clinical presentation, possible predisposing factors, treatments and graft outcomes.

The department has a record of all transplanted patients. Identifying those with stones will be achieved by interrogation of the medical records coding system and by review of medical imaging results. Based on the published incidence of transplant stones and clinical recall, I anticipate that there will be no more than 7 or 8 incident cases. This will allow plenty time to read around this topic, collect the data, analyse it and write up a report. Given the lack of published data, this should lead to a publication in a paediatric and/or nephrology/urology journal.