



A project of Kind Cuts for Kids,

supported by

South African Urological Society

University of the Free State

Red Cross Children's Hospital

Tygerberg University Hospital

Professor Paddy Dewan

***September 2022***



## Introduction

As always – thanks to our donors.

Kind Cuts for Kids first connected to assisting with teaching in South Africa through a chance meeting with Professor Chris Heyns at a Urological meeting in Indonesia, after which an invitation was extended to Professor Dewan to attend a meeting in South Africa as a guest of the South African Urological society. The recent visit has been one on 11 trips to South Africa, during which attendance at the Urological congress, Paediatric Urological workshops and clinical work on complex cases has been undertaken. Visits that have included participation of Dr Titus Pakop from Papua New and Dr Baton Kelmendi from Kosovo, and medical student Olivia Wilkinson, plus Radiological teaching by Dr Padma Rao during seven of the missions.

The following table shows the breakdown of the distribution of patients treated, with a total of 169 patients having been reviewed, 59 of whom have had an anaesthetic for a total of 172 operative procedure on the 57 patients who have undergone surgery during that time. Two of the visits were for facilitation of education by participation in the South African Urological Association meeting. Many of the visits have involved clinical work and teaching in more than one centre, and all of the procedures have been major operations.

<i>Visit #</i>	<i># Patients</i>	<i>Anaesthetics</i>	<i># Operations</i>	<i># Pts Operated</i>
1	0	0	0	0
2	51	3	7	3
3	0	0	0	0
4	11	5	20	5
5	6	5	10	5
6	32	9	28	9
7	12	7	17	7
8	8	7	32	6
9	12	3	9	3
10	16	11	25	10
11	21	9	24	9

## Conference Participation and Lectures

This mission was a combination of participation in the South African Urological Association meeting, an associated Paediatric Urology workshop and clinical work at two locations in Cape Town, Red Cross Children's Hospital and Tygerberg. The conference contribution included the judging of the Kind Cuts for Kids poster prize, and a keynote lecture on ***Vesicoureteric Reflux – our expanding ignorance***, and active participation in the discussion of Paediatric papers. The workshop contribution included a demonstration operative case, and presentation of several complex cases for detailed discussion. Notably, ***Dr Manatsa Chimhamhiva***, who was studying at the Red Cross Children's Hospital ***on a KCFK scholarship*** presented at the workshop. A further International presentation was on ***Innovations in Paediatric Urology***.

## Clinical Care

The 2022 visit to South Africa had a dual focus; the participation in the Urology conference and clinical care in Cape Town, both at the Red Cross Children's Hospital and Tygerberg.

In total, 21 patients were reviewed of who 9 had surgery, with a total of 24 procedures under 9 anaesthetics.

### Diagnoses included:

Hypospadias	– 8
Exstrophy/epispadias	– 9
Spina Bifida/neuropathic bladder	– 3
Cross fused renal ectopia	– 1
Anorectal anomaly	– 1
Vesicoureteric reflux	– 1
Double penis	– 1

### Operations included:

Cystoscopy	– 4
Vaginoscopy	– 1
Retrograde Pyelogram	– 2
Osteotomy	– 4
Bladder Exstrophy closure	– 2
Bladder neck procedure	– 2
Abdo wall repair	– 1
Omphaloplasty	– 1
Double penis	– 1
Ureterocystoplasty	– 1
Ureteroureterostomy	– 1
Vaginopasty	– 1
Wound revision	– 1



One of the patients who had a procedure at the Red Cross Children's Hospital

## Clinical Care ... Case Study

An 8 yo boy with spina bifida and an associated neuropathic bladder had a complex upper renal tract with bilateral double systems, with the right lower component appearing to be cross fused ectopia (see radiology studies). The nuclear medicine (right image – below) study showed that the right component did not function, but at operation the two sides of the kidney were joined, leading to the option of removal of the non-functioning part of the kidney not being possible.



With the expert assistance of Dr Manatsa, the right kidney was approach through a lateral incision, and the need for preservation of the kidney, because of its attachment to the left renal tissue, was identified. The drainage systems of the renal units were then joined by ureteroureterostomy and the subsequently available ureter was mobilized into the pelvis. The upper wound was closed and the patient repositioned to enable the second phase of the operation, which was the incorporation of the ureter into the bladder to make it bigger, thus protecting the kidney from the high pressures that had been damaging the kidneys. The images below show the right kidney, the large ureter with the bladder open and the ureter partly incorporated into the bladder.





## *Kind Cuts for Kids Scholars at Red Cross - 2022*



Professor Dewan with Dr Edward Ebo Ocran (Radiology Fellow)



Prof Dewan, Dr Manatsa Chimhamhiva (Urology Fellow) and Prof Lazarus

## *The Pictures Tell the Story – The Work*





## *The Pictures Tell the Story – The Patients*

