

*Paediatric Urology and Radiology Visits*  
*To*  
*Cuba and Colombia*



Professor PA Dewan and Dr Padma Rao

7<sup>th</sup> -20<sup>th</sup> December 2009

## *Introduction*

The Kind Cuts for Kids Foundation was invited to participate in the National Urology congress in Cuba, and contacted by Dr Ricardo Alvarez, requesting a Paediatric Urology teaching visit to Barranquilla, on the Caribbean coast North of Colombia. The following is a report of the back-to-back visits to Cuba and Colombia, at the end of 2009.

## *Cuba*

The trip to Cuba forms part of an ongoing education program in Paediatric Urology, centred at the William Soler Hospital in Havana, and focussed on complex Paediatric Urology, particularly the treatment of the major anomaly of bladder exstrophy. On this occasion the teaching in Havana involved lectures at the National and International meeting of the Cuban Urological Association. Planning for subsequent a nation-wide teaching program formed an important part of the visit and, in addition, negotiations took place for training visits to other South American countries, and for the inclusion of Latin American, highly trained personal in the Kind cuts for Kids programs elsewhere.

The initial visit to Cuba, in 2003, was stimulated by contact between the Cuban Children's Fund of APHEDA, motivated by the late Tas Bull. Two visits occurred in 2003 and one in 2004; the funding for the first three trips being provided by *Northcote Rotary Club*, the Cuban Children's fund committee, and generous donations from various companies, orchestrated through the Kind Cuts for Kids Foundation. The third visit was funded by the Kind Cuts for Kids Foundation, the Ministry of Health in Cuba, and by extending a visit to the Chilean Urology Society annual meeting. The 2009 mission, and those of 2005 and 2007, have been funded the Ministry of Health, the Urology Society of Cuba and the Kind cuts for kids Foundation, with the funds donated to the Foundation by the *Preston and Manningham Rotary Clubs*, the *Society for Children in Mauritius*, and *Qantas* assistance with transportation.

The Paediatric section of the **XIX CONGRESO DE UROLOGÍA and XII CONGRESO CENTROAMERICANO Y DEL CARIBE DE UROLOGÍA** from 7<sup>th</sup> to 11<sup>th</sup> of **December**, was coordinated by Dr Itsel Vella, who was also extremely active in the presentation of scientific papers. Professor Dewan presented six lectures (see program in appendix I), and assisted with the running of the program, as chairman of one of the sessions. Eminent Paediatric Urologists, Ricardo Zubieta and Ricardo Alvarez were among the many visitors from a number of countries, including Chile, Peru, South Africa, Colombia and

United States, many of whom presented scientific papers, with clinical papers being provided from a number of centers in Havana and other regional locations.



Professor Dewan relaxes at one of the Urology Conference evening functions (left). The National Television camera crew (right) as pictured just before Professor Dewan's interview, which was soon after an interview on National radio.

During the Urology meeting, several high level discussions occurred between Professor and Paediatric Surgeons and Paediatric Urologist from throughout Cuba, during which, and with the participation of the Dr Rosaria Claveat, Head of the Paediatric Urology Unit at the William Soler Hospital, plans were formulated for a multi-centre training course on surgery for bladder exstrophy, plus participation in the Cuban Paediatric Surgical conference in March, in 2010.

## *Colombia*

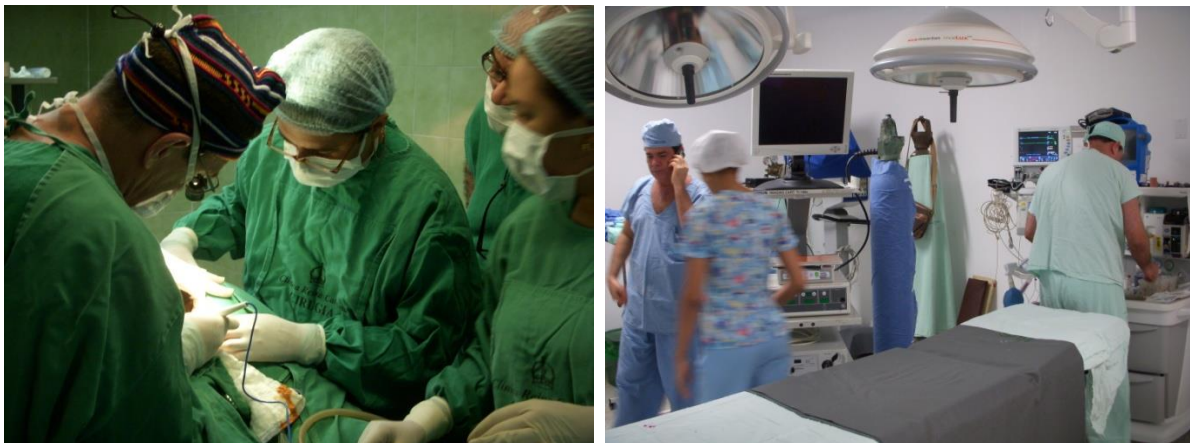
Colombia became independent in 1810, after which was built the world's biggest port jetty, at the mouth of the Magdalena river, at Puerto Colombia, which lies just beyond the now 4 million people living in Barranquilla city. Building the pier took between 1888 and 1893 to complete; now it stands deserted and partly destroyed by the pounding waves of the Caribbean. In this country of 44 million people, reputed to be dangerous and drug smuggling, beautiful areas of the immaculate city dominate the urban landscape. Unfortunately, some of the wonderful old mansions of the old town have been converted to offices. Despite good roads and the high standard of cars, horse and carts, and ladies carrying their wares on their head are commonly seen, and house servants are part of this developing countries wealth distribution system.

Paediatric Surgery services and sub-specialists are available in all the major Colombian cities, with 120 surgeons in the country, which represents roughly half the availability of surgeon to population in Australia, without taking into account the larger proportion of the

patients below the age of 15 years old in Colombia. Two specialties that are virtually non-existent in Colombia are Paediatric Urology and Paediatric Radiology, thus the value of the Kids Cuts for Kids visit.



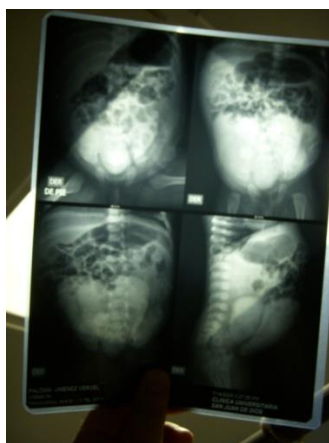
The principle clinic in which the visit was conducted is a general hospital that treats both private and public patients, with a high standard of Radiology equipment (left), but lacks paediatric ultrasound probes, sufficient viewing boxes in the clinics and sufficient understanding of radiation safety; the later point is show by the radiograph of the hand of the individual restraining the child (right). Dr Rao is pictured explaining the intricacy of a nuclear medicine study (middle).



Professor Dewan (left) performs a posterior approach urethral stricture repair (one of the two cases shown below), with the able assistance of the visit coordinator, Dr Ricardo Alvarez. The operating theatre of the Northern Clinic, in which most of the procedures were conducted; although reasonably well equipped, had many shortages of disposable equipment compared to Australian standard (right).

The accommodation for Professor Dewan and Dr Rao was provided by Dr Cristobal Abello and his wife, who allowed the team to stay at their home in Puerto Colombia, 20 minutes drive from the Hospital. Each day, transportation and meals were provided by the very generous local hosts, thus minimising the input from the Foundation coffers.

| <b><i>Patient Information</i></b> |                   |               |                                |                              |
|-----------------------------------|-------------------|---------------|--------------------------------|------------------------------|
| <b>Patient #</b>                  | <b>Age (mths)</b> | <b>Gender</b> | <b>Pathology</b>               | <b>Clinical Event</b>        |
| 1                                 | 48                | Female        | Intussusception - hamartoma    | Small bowel resection        |
| '                                 | '                 | '             | '                              | Laparoscopy                  |
| '                                 | '                 | '             | '                              | OPD                          |
| 2                                 | 172               | Female        | Cloacal exstrophy + SB         | OPD                          |
| 3                                 | 72                | Male          | Intersex                       | Vaginectomy                  |
| '                                 | '                 | '             | '                              | Cystoscopy                   |
| '                                 | '                 | '             | '                              | OPD                          |
| 4                                 | 240               | Male          | Urethral trauma c # pelvis     | Urethroscopy                 |
| '                                 | '                 | '             | '                              | Pena posterior urethroplasty |
| '                                 | '                 | '             | '                              | Cystoscopy                   |
| '                                 | '                 | '             | '                              | OPD                          |
| 5                                 | 144               | Male          | Oe stricture                   | OPD                          |
| 6                                 | 60                | Male          | Tracheal stenosis              | OPD                          |
| 7                                 | 306               | Male          | Urethral trauma c # pelvis     | OPD                          |
| 8                                 | 108               | Female        | Congenital Adrenal Hyperplasia | Vaginoplasty                 |
| '                                 | '                 | '             | '                              | Clitoroplasty                |
| 9                                 | 248               | Male          | Urethral trauma - 2 strictures | OPD                          |
| 10                                | 24                | Female        | VUReflux - duplex              | OPD                          |
| 11                                | 5                 | Male          | PUJO - lower pole vessel       | OPD                          |
| 13                                | 4                 | Male          | COPUM + vesicostomy            | OPD                          |
| 14                                | 7                 | Female        | Cloacal anomaly                | OPD                          |
| 15                                | 144               | Male          | Epispadias - incontinence      | Young Dees                   |
| '                                 | '                 | '             | '                              | Urodynamics                  |
| '                                 | '                 | '             | '                              | Cystoscopy                   |
| '                                 | '                 | '             | '                              | OPD                          |
| 16                                | 60                | Male          | Intersex - male                | OPD                          |
| 17                                | 108               | Female        | Neuropathic bladder - SB       | OPD                          |
| 18                                | 36                | Female        | Anorectal anomaly - wetting    | OPD                          |
| 19                                | 204               | Male          | Spina Bifida                   | OPD                          |
| 20                                | 84                | Male          | Intersex - 46 XX male          | OPD                          |
| 21                                | 157               | Male          | Hypospadias                    | OPD                          |



The complexity of the cases reviewed is highlight in the list of 21 different patients, but more so by the pathology in each. The young girl (far left) has had a failed closure of a cloacal exstrophy and the second child (near left) has an un-repaired cloacal anomaly, managed with a colostomy and vesicostomy. Both children have an extremely uncommon abnormality with which Kind cuts for Kids teams have had extensive experience, and who will form part of a subsequent workshop.



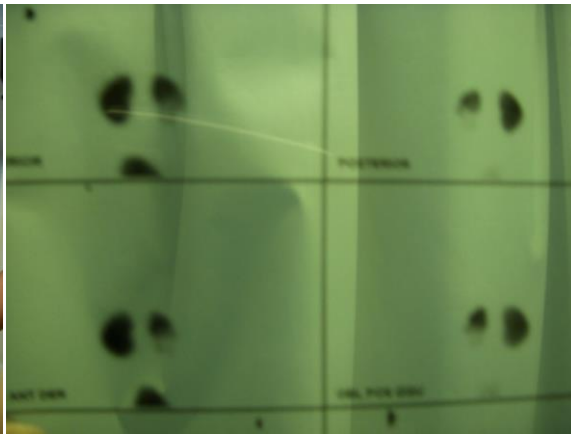
The teaching was, as always, a two way street, but again, as usual, the lesions learnt in other developing countries were useful. Particular points included:

1. Ureterocystoplasty as preferred bladder augmentation.
2. Osteotomies preferred for bladder exstrophy closure.
3. Catheterless ureteric reimplants.
4. Anatomy of posterior urethral obstruction – COPUM.
5. Medical management of phimosis.
6. Posterior approach urethroplasty.
7. Setting up a PhD Study.
8. Writing a scientific paper.
9. Urodynamic study performance
10. Managing incontinence.
11. Hinman bladder
12. Intersex management
13. Uroradiology and the jigsaw puzzle approach
14. PUJ obstruction and Ureterocalycostomy.

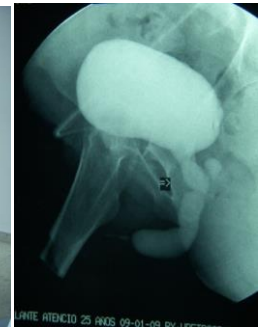
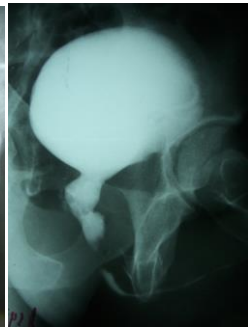
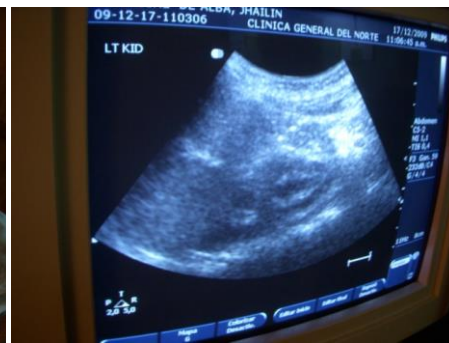
## *Summary*

Two visits to two different countries were combined, giving time and cost efficiencies, with two specialties teaching subjects to which there has been insufficient educational input to place those specialties on the same level as in Australia. There has been previous input into Cuba, which is now extending to a more nationwide and workshop orientated model. In Colombia, it is clear that, like Cuba there is a shortage of some disposable equipment, but more-so there is a lack of opportunity for education in the subspecialties of Paediatric Urology and Radiology. Return visits to Colombia should focus on enhancing research and developing workshops to further the gains achieved during the first visit.





An 18 month old girl (top left), presenting with recurrent urinary tract infections, was noted to have vesicoureteric reflux into a probable duplex system, which was not evident on the initial ultrasound. A repeat study by Dr Rao (bottom left), confirmed the presence of the abnormal lower pole (bottom right), consistent with the DMSA nuclear medicine study (top right).



Two patients were treated for urethral disruption, both of whom had undergone previous repairs. The two left films show the urethrally inserted, then the bladder inserted, contrast, demonstrating the bulboprostatic injury, plus a stone in the prostatic urethra. The second patient displays his long-term suprapubic catheter, as well as a second, iatrogenic stricture in the penile urethra.

## ***Appendix I - Program for Cuban Paediatric Urology meeting:***

MARTES 8/12/09 SALÓN 8 Tarde. 2.00-6.00 p.m SESIÓN PLENARIA UROPEDIATRIA

PRESIDENTE Paddy Dewan (Australia) SECRETARIA Marlene Guerra Rodríguez (Cuba)

2:00- 2:20 CONCURSO DE UROPEDIATRÍA “DR. FIDEL PRESMANES”

Jurado: Presidenta. Ma. Elena de la Moneda. Vice-presidenta. Rosario Mendoza. Vocal. Emilio Vega Azcué.

2:20- 3:20 Mesa Redonda:

Tratamiento de la extrofia vesical. Coordinadora. Rosario Calviac Mendoza (Cuba)

Disertantes. Ricardo Álvarez (Colombia) Paddy Dewan (Australia) Ricardo Zubieta (Chile)

Conferencias magistrales

3:20-3:40 Avances en Urología Pediátrica Ricardo Zubieta (Chile)

4:40-5:00 Ureterocalicostomía. Paddy Dewan (Australia)

5:00-5:20 Cirugía genital de la hiperplasia adrenal congénita. Ricardo Zubieta (Chile)

5:20-5:40 Centralizando el manejo de pacientes con hipospadias: Ricardo Álvarez (Colombia)

5:40-6:00 Doble sistema y ureteroceles Dr. Paddy Dewan (Australia)

MIÉRCOLES 9 SALÓN 9 SESIÓN MAÑANA Uropediatria II

9:00-12:30 am Presidente. Paddy Dewan (Australia) Secretario. Dania Madiedo (Cuba)

9:00-10:00 Mesa redonda

Obstrucción del tracto urinario en la infancia. Paddy Dewan (Australia) Ricardo Zubieta (Chile) Emilio Cordiés Jackson (Cuba)

Conferencias:

10:00-10:30 Imagenología en urología pediátrica Natacha Sandín (Cuba)

10:30-10:50 Resultado en el tratamiento de 35 pacientes con extrofia vesical. R Calviac Mendoza, Prof. Paddy Dewan, M Guerra, Itsel Vela Caravia, Ma. Carmen Castro Prada (Cuba)

10:50- 11:00 Receso

SESION DE VIDEOS

11:00-11:10 V1 Nefrectomía laparoscópica en la infancia. Vela Caravia I, et al (Cuba)

11:10-11:20 V2 Nefrectomía lumboscópica en paciente pediátrico. M Castillo Rodríguez, et al (Cuba)

11:20-11:30 V3 Nefrectomía laparoscópica en riñón ectópico y atrófico. Vela Caravia I, et al (Cuba)

11:30-11:40 V4 Exploración laparoscópica en paciente hermafrodita. Vela Caravia I, et al (Cuba)

11:40-11:50 V5 Tratamiento laparoscópico del varicocele en la infancia Vela Caravia Itsel, et al (Cuba)

11:50-12:00 V6 Genitoplastia en paciente con hiperplasia adrenal congénita. R Calviac Mendoza, et al (Cuba)

12:00-12:10 V7 Uretroplastia con fistula uretrocutanea post-circuncisión. O Urrutia Fuentes, et al. (Cuba)

12:10-12:20 V8 Tratamiento quirúrgico del mucocolpo. R Calviac Mendoza, et al (Cuba)

12:20- 12:30 COMENTARIOS Y DISCUSION

JUEVES 10 SALÓN 9 UROPEDIATRIA III

9:00- 12:30 am Presidente Prof..Ángel Árias Lorente (Cuba) Secretario Dr.Ernesto Martínez Toledo (Cuba)

Temas libres

9:00-9:10 T1 Retos de la urología pediátrica. Dra. Itsel Vela Caravia (Cuba)

9:10- 9:20 T2 Varicocele en la infancia. Dr. José Pérez Rodríguez (Cuba)

9:20- 9:30 T3 Cuando debe realizarse circuncisión o dilatación prepucial. Julio Morales et al (Cuba)

9:30- 9:40 T4 Reflexiones acerca de las operaciones genitales reconstructivas. Jorge Luis Losada Guerra (Cuba)

Conferencias

9:40-10:00 Hipospadias: algoritmo para el siglo XXI.Dr. Ricardo Álvarez (Colombia)

10:00- 10:20 L.E.C. en el tratamiento de la litiasis en el paciente pediátrico. María Labrada Rodríguez (Cuba)

10:20-10:40 Cirugía fetal. Dra. Itsel Vela Caravia (Cuba)



10:40-11:00 Trastornos del desarrollo sexual o genitales ambiguos. Nuestra experiencia. Martha Pérez (Cuba)  
11:00-11:20 Corrección de hipospadias: errores que pueden implicar. Dr. Ricardo Álvarez (Colombia)

#### Temas Libres:

11:20- 11:30 T5 Infecciones nosocomiales en el servicio de urología. Rafael Martínez Fera, et al. (Cuba)  
11:30- 11:40 T6 Hidronefrosis congénita grave. Estudio de 5 años. Dra. Daimarelis Rodríguez., et al (Cuba)  
11:40- 11:50 T7 Cirugía urológica en pacientes a trasplante renal. Emilio Cordiés Jackson, et al (Cuba)  
11:10- 11:20 T8 Cirugía conservadora en las vías gemelas. Dr. Francisco Fong Aldama, et al. (Cuba)  
11:20- 11:30 T9 Reconstruction following septic circumcision. Dr. Howard j. Kngu, et al (Sudafrica)

#### Póster

11:30-11:35 P1 Hipospadias masculino: manejo diagnóstico y terapéutico. D. María E. de la Moneda;  
11:35- 11:40 P2 Manejo del hipospadias resultado de 7 años de trabajo. García Sosa Niurka,  
11:40- 11:45 P3 Tratamiento quirúrgico del hipospadias. nuestros resultados. Dania Madiedo Pérez., (Cuba)  
11:45- 11:50 P4 Resultados del tratamiento del hipospadia. Dras. Rosario Calviac Mendoza, (Cuba)  
11:50- 11:55 P5 Triamcinolona tópica una alternativa del fimosis. Dr. Emilio Vega Azcúe. (Cuba)  
11:55- 12:00 P6 Complicaciones de la circuncisión en Africa del Sur. Nelson. Bustamante (Sudáfrica)

#### Conferencia

12:00- 12:30 Tumores uropediátricos. Actualización del tratamiento Dra. Caridad Verdecia (Cuba)  
12:30- 2:00 pm Almuerzo

VIERNES 11/12/09 SALÓN 9 PÓSTER UROPEDIATRIA IV.

9.00-11.00 am SESIÓN UROPEDIATRIA CASOS ÚNICOS- SERIE DE CASOS  
PRESIDENTE Ricardo Álvarez (Colombia) SECRETARIO Francisco Fong Aldama (Cuba)

#### SESIÓN DE CASOS ÚNICOS BLOQUE 1. PÓSTER

9.00-9.05 P1 Transposición de genitales externos femeninos y genitoplastia Martha Rodríguez Pérez, (Cuba)  
9.05-9.10 P2 Hidronefrosis en doble sistema pielocalicial Vela Caravia I, et al (Cuba)  
9.10-9.15 P3 Carcinoma transicional de vejiga en la infancia M C Castro Prada, et al(Cuba)  
9.15-9.20 P4 Hermafrodita verdadero convertido al sexo masculino Vela Caravia Itsel, et al (Cuba)  
9.20-9.25 P5 Divertículo uretral congénito Marlene Guerra Rdguez, (Cuba)  
9.25-9.30 P6 Síndrome de Williams-Beuren y uropatía obstructiva Mtz Toledo Ernesto, et al (Cuba)  
9.30-9.35 P7 Divertículo uretral adquirido en la adolescencia Marlene Guerra Rodríguez, et al (Cuba)  
9.35-9.40 P8 Hidronefrosis por obstrucción en paciente monorenal lactante Marlene Rodríguez, (Cuba)  
9.40-9.45 P9 Reconstrucción quirúrgica de un megauréter de reflujo en riñón único Losada Guerra, et al (Cuba)  
9.45-9.50 P10 Uretroplastia en un caso de megalouretra escafoide Losada Guerra Jorge Luis; et al (Cuba)  
9.50-10.00 DISCUSION

10.00-10.05 P11 Traumatismo de pene por mordedura de perro Daimarelis Ortega Rodríguez, (Cuba)  
10.05-10.10 P12 Tumor de Wilms asociado a agenesia renal Daimarelis Ortega Rodríguez, (Cuba)  
10.10-10.15 P13 Cirugía plástica de urgencia en una lesión traumática de pene y escroto Orlando Urrutia (Cuba)  
10.15-10.20 P14 Hiperplasia de en tumoración de epidídimo Rodríguez Rubié Carlos Manuel, (Cuba)  
10.20-10.25 P15 Tratamiento combinado en la condilomatosis genital Rdguez Rubié Carlos Manuel, De León Sanfiel Rodolfo (Cuba)

#### SESIÓN SERIE DE CASOS BLOQUE 2. PÓSTER

10.25-10.30 P16 Tumores retroperitoneales en la infancia. Casuística en 15 años Emilio Cordiés Jackson, Bárbara Navarro, Usbail Santana Pérez, Ana Dairy Ramírez (Cuba)  
10.30-10.35 P17 Manejo quirúrgico del reflujo vesicoureteral por la técnica de avance ureteral Francisco,Fong Aldama, Toledo Martínez Ernesto, García Sosa Niurka (Cuba)  
10.35-10.40 P18 Quiste renal en la infancia. nuestra experiencia Martha Rodríguez Pérez (Cuba)  
10.40-10.45 P19 Valva de uretra posterior. Conducta asumida Emilio Cordiés Jackson, et al (Cuba)  
10.45-10.50 P20 Implantes protésicos testiculares en pediatría. José Pérez Rodríguez, et al(Cuba)  
10.50-11.00 Receso

## ***Appendix 2 - Paediatric Urology Workshop, Saturday 19<sup>th</sup> Dec., Barranquilla, Colombia:***

|           |   |                                      |
|-----------|---|--------------------------------------|
| 07:30 am: | Welcome:                                | Dr.Carlos Hernandez T.               |
| 08:00 am: | Empty Scrotum, Actuality.               | Dr. Moises Miele (Spain)             |
| 08:30 am: | Advance in Uropediatric Surgery.        | Dr. Cristobal Abello (Colombia)      |
| 09:00 am: | Penis surgical Patologies.              | Dr. Mosies Miele (Spain)             |
| 09:30 am: | Fetal Surgery: New Expectatives.        | Dr. Abrahan Chams (Colombia)         |
| 10:00 am: | Break                                   |                                      |
| 10:30 am: | VUReflux: Medical New Concepts.         | Dr. Ariel Polo (Colombia)            |
| 11:00 am: | VUReflux: Surgical Update.              | Prof. Paddy Dewan (Australia)        |
| 12:00 pm: | Urinary Incontinence and Treatment.     | Prof. Paddy Dewan (Australia)        |
| 13:00 pm: | Imagenology in Pediatric Urology        | Dra. Padma Rao (Australia)           |
| 13:45 pm: | Questions and Answers                   | Coord: Dr. Jose Gutierrez (Colombia) |
| 14:00 pm: | Lunch and forum for Paediatric surgeons |                                      |
| 15: 00 pm | Close                                   |                                      |



Paediatric Urology is a developing component of Paediatric Surgical service in Colombia. The Saturday workshop, just before Christmas, was attended by an impressive number of people, as shown above.