

The Baby Footprint

Volume 1, Issue 2

Oct / Nov 2014

Points of Interest:

- Education & Training
- Outreach
- WFPI
- Conferences
- SASPI Overview

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Dearest friends and colleagues,

2014 has proved to be another exciting year for the South African Society of Paediatric Imaging with a particular focus on **Outreach**. SASPI has expanded its mission to include outreach support to centres across South Africa and neighbouring countries lacking paediatric radiology expertise. While we have concluded many exciting and rewarding projects this year, we certainly have our work cut out for us in terms of future projects.

Dr Ebrahim Banderker and Dr Nicky Wieselthaler held a successful paediatric imaging workshop in **Bloemfontein**. Dr Tracy Kilborn undertook an outreach mission and visited 3 hospitals in **Malawi**. The aim was to provide tele-reading support for paediatric imaging and to teach point of care ultrasound. I visited 3 rural hospitals in **Swaziland** where the focus was on improving imaging skills in paediatric TB. Through these outreach activities, we have collaborated and partnered with global health organisations like ICAP (Columbia University) and the World Federation of Paediatric Imaging (WFPI). Professor Savvas Andronikou is the Outreach Chairperson for the WFPI. Gain more insight on our individual experiences by reading through the official feedback reports from the various site visits. We hope to recruit more volunteers to the Outreach program in the coming year.

Education and training in paediatric imaging is ongoing, and the Red Cross Children's Hospital is currently advertising the Paediatric Radiology Fellowship for 2015.

The division of paediatric radiology at Charlotte Maxeke Johannesburg Academic hospital (CMJAH) is currently hosting an Observership. Dr Kumeshnie Kollapen from George Mukhari Hospital is the first candidate.

Included in this newsletter are updates on future **conferences and courses** as well as the feedback reports from the recent ESPR, SPR and the Observership at CHOP.

So what's on the horizon for SASPI in 2015? Outreach and education will continue to be a strong focus of SASPI. Future outreach collaborations on the cards are with Stanford University and the Baylor College of Medicine.

The next **SASPI / RSSA conference will take place in November 2016 at the Spier Wine Estate in Cape Town**. We have a panel of highly esteemed local and international speakers that will be presenting on various topics with the focus on current and future imaging perspectives of the Chest and Abdomen.

SASPI is currently working on bringing you a series of Paediatric Radiology webinars through the Radiological Society of South Africa.

We will continue to keep you updated on current and future paediatric imaging activities. **Making a difference and improving imaging in children** will continue to be SASPI's mission.

Sincerely,
Jaishree Naidoo
(SASPI Chairperson)



EDUCATION & TRAINING

Red Cross War Memorial Hospital Fellowship

Red Cross War Memorial Children's Hospital Radiology Department invites anyone interested in Paediatric Radiology to apply for a one year fellowship at our institution.

Applicants will need to register with the University of Cape Town and the Postgraduate Diploma will be awarded through the University of Cape Town

Full time position with on call commitments: starts February 2015

There will be a final exit examination as well as a Research project and Publications during your training.

Applicants must have a Radiological Postgraduate Degree through The Colleges of Medicine of South Africa and must be registered with the HPCSA.



The fellowship post is made available due to the kind financial support of Drs Schnetler, Corbett and Partners Inc, Diagnostic Radiologists, who will sponsor the full remuneration of the successful candidate.

To achieve the objective of a more equitable, geographic spread of Paediatric Radiology expertise, preference will be given to candidates from outside of Cape Town

Only applicants affiliated to a Government Hospital will be considered with the proviso that the Graduate will go back into government services in South Africa for a minimum of 3 years.

Anyone interested can apply to Dr Nicky Wieselthaler with a full CV and minimum of 3 references.

nicole.wieselthaler@westerncape.gov.za

Applications close 31 October 2014

Nicky Wieselthaler

CHOP Paediatric Imaging Observership

Earlier this year, 3 South African radiologists (Razaan Davis, Jaishree Naidoo and Tanyia Pillay) had the privilege of spending time at The Children's Hospital of Philadelphia (CHOP).

CHOP is affiliated to the University of Pennsylvania. It is a state-of-the-art hospital with friendly, committed staff. The CHOP motto is "Hope lives here" and it truly does feel that way on entering the beautiful light-filled atrium of the hospital.



The radiologists were inspired to visit CHOP after Prof Kassa Darge's visit to South Africa in 2013. They spent

time learning how to implement MRU's, trained with Dmitry Khrichenko (the physicist who designed the CHOP-functional MRU freeware programme), observed the MRI technicians perform the MRU study and discussed 3D volume reconstructions with the 3D lab technician.



In addition, Jaishree Naidoo spent time with the sonographers, furthering her skills in trans-cranial Doppler ultrasound and Tanyia Pillay spent time improving her knowledge of foetal MRI.

Drs T Pillay, J Naidoo & R Davis

CMJAH Paediatric Imaging Observership

Dr Kumeshnie Kollapen was accepted for an observership in Paediatric Radiology at CMJAH that commenced 6 August 2014. The observership is for a period of 3-6 months, 2 days per week.

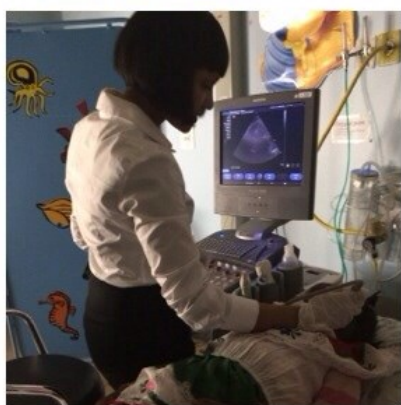
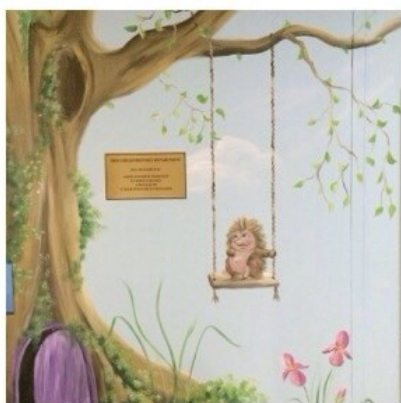
At CMJAH, we host a full range of clinico-radiological meetings, including paediatric oncology, paediatric surgery, neonatal ICU, paediatric neurology, paediatric nephrology and paediatric pulmonology.

We have a pulsed fluoroscopy paediatric unit, a 1.5 tesla MRI with a weekly general anaesthetic list dedicated to paediatric patients, a 64 and 128 CT scanner, and an ultrasound machine.

During the month of observership, I will be orientating, tutoring and guiding the observer in the various aspects of paediatric imaging, ie:

1. Performance of the various fluoroscopic paediatric procedures.
2. Ultrasound of the paediatric patient - renal ultrasound, liver imaging, transplant imaging, dopplers, cranial ultrasound.
3. Approach to plain film reporting: approach to a chest x-ray, abdomen x-ray, bone, and skeletal surveys for non-accidental imaging.
4. MRI - MRI protocols, approach to the paediatric brain, myelination, oncology imaging.
5. CT - dose, protocols, approach to the paediatric brain, abdomen, head and neck, oncology imaging.

The observer must be committed to the program for the entire period.



The observer may report on a case only under guidance of the supervisor (the paediatric radiologist).

The observer will be required to attend and contribute to the academic meetings.

Dr Kollapen has expressed her interest in starting a paediatric radiology unit at George Mukari Hospital in Ga-rankuwa and I look forward to assisting her in this endeavor.

Jaishree Naidoo

For any enquiries, contact Dr Jaishree Naidoo at CMJAH: jaishreenaidoo@hotmail.com



Dr Kumeshnie Kollapen
Observer at the CMJAH Paediatric Radiology Dept

OUTREACH

Universitas Academic Hospital, Bloemfontein

Our day long outreach program was both well received and much appreciated by our radiology colleagues and paediatric clinicians alike, who practice under the auspices of the Universitas Hospital, Bloemfontein.

The program included a series of six didactic lectures delivered by Dr Nicky Wieselthaler (Abdominal Plain Radiography, Cervical Spine Trauma in Children and Aspects of Fluoroscopic Techniques in Paediatrics) and Dr Ebrahim Banderker (Paediatric Chest Radiography, Renal Sonography and Non-Accidental Injury).

The afternoon program included practical demonstrations in ultrasound techniques (General Abdomen, KUB, Newborn Hip and Head) and fluoroscopic techniques.

The program was concluded with a presentation of "challenging cases" for which second opinions were sought.

Despite the limitations of time, much was achieved in terms of emphasizing the appropriateness of investigation and the pitfalls encountered when imaging children.

Local imaging protocols for children were refined with an increased awareness of the role of technical factors in interpretation, radiation sparing techniques and the preferred use of ultrasound and MRI (non-ionizing radiation modalities) where possible.

The lecture series embraced the most frequently encountered paediatric pathology under the topics

presented as well as highlighting conditions not to be missed as for instance in NAI and cervical spine trauma.

Teaching files and imaging protocols as employed by Red Cross Children's Hospital and SASPI were made available to the local team.



The team from Red Cross Children's Hospital have also offered their ongoing support and availability for consultation in difficult cases.

Our experience once again illustrates the need for dedicated subspecialty training

in paediatric radiology as numerous matters regarded by ourselves as being basic are often not readily apparent to those with more general radiology training.

Whilst local expertise in paediatric radiology may indeed be limited, much can be achieved through ventures of this nature that should hence be enthusiastically encouraged.

Ebrahim Banderker

"Our experience once again illustrates the need for dedicated subspecialty training in paediatric radiology"



Drs Nicky Wieselthaler and Ebrahim Banderker

Reaching out to Malawi - SASPI / WFPI Outreach Program

This trip was commissioned by the WFPI as an initial exploratory outreach mission to teach and determine pediatric radiology needs in a number of differing environments in Malawi.

This mission was executed with a view of providing tele-reading support for pediatric imaging and also for providing future teaching and training visits. I volunteered for this particular mission after being a telereader for WFPI previously.

South African paediatric radiologists are well suited for regional outreach missions because of our proximity and because of our experience with endemic diseases and limitations of both equipment and the environment.



Radiology services in state healthcare are basic and limited. The small number of radiologists cannot provide support for radiography and ultrasound; they tend to spend most of their reporting time in CT (Lilongwe) and MRI (Blantyre).



The paediatricians in both centres, and paediatric surgeons in Blantyre would benefit from teleradiology support for their imaging. They did however express concerns about turnaround times, and also that

they have previously found reports vague and unhelpful i.e. a description of findings without a definitive diagnosis, particularly in the cases where they are querying TB.

Point of care ultrasound in all the centres I visited would be of immense relevance

and value. I feel strongly that this is something that should be concentrated on by the WFPI in any further visits.

Thank you to the WFPI for facilitating this outreach visit to Malawi, I loved every minute of it and really felt like we made a difference.

Tracy Kilborn

Follow this link for Dr Kilborn's full report:

http://www.pedrad.org/Portals/7/Outreach/Malawi_Report_July14_website_compressed.pdf



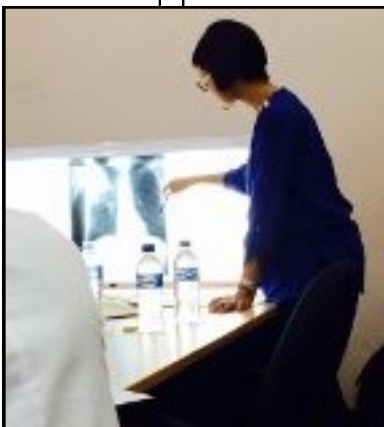
Reaching out to Swaziland - SASPI / ICAP Paediatric Imaging TB Outreach Program

TB infection control in Swaziland is a health concern as a high rate of people living with HIV/AIDS are co-infected with TB (85% in adults and 60% in children).

The South African Society of Paediatric Imaging has expanded its mission to include outreach support to centres in South Africa and neighbouring countries lacking paediatric radiology expertise.

ICAP (Columbia University) has been supporting regional multidisciplinary mentorship teams in Hhohho, Lubombo and Manzini Regions in their integration of HIV and TB issues into health facilities in collaboration with CDC Atlanta and the MOH. ICAP has also been working with the national HIV and TB program to reinforce and centralize TB/HIV collaboration activities including building technical capacity of site providers to decentralize TB services.

In this regard, ICAP and SASPI collaborated and planned an outreach activity to develop skills for radiology use to diagnose and manage TB in children in different referral health sites. The activity entailed a 3 day visit by myself and radiographer Mrs Stella Legobe to conduct on-site radiology sessions with radiology technicians and clinicians.



The visit rationale: support a QI exercise on the radiology department with the technicians and facilitate an on-site session with physicians to strengthen their reading skills of x-rays and with sonographers in point of care ultrasound when diagnosing TB in children.

The 3 centres that were visited included Good Shepherd Hospital, Piggs Peak Hospital and Mbabane Government Hospital.

The Number 43 Trelawney Park Foundation and African Financial Group made this Paediatric Imaging TB Outreach project possible due to their generous donation and sponsorship.



The doctors and support staff expressed their gratitude for the presentations and our hands-on approach. They were eager for follow up visits and more workshops.

In all 3 hospitals that we visited, no lateral chest x-rays were done. During the teaching and training sessions at the different centres, the critical importance of lateral

chest x-rays in assisting with the diagnosis of TB was emphasized.

The ultrasound equipment at these centers was suboptimal. There was no linear, high frequency ultrasound probe, essential for better detection and assessment of splenic micro abscess/lymphadenopathy in TB.

There is only 1 radiologist in the country and he is based at Mbabane Government Hospital.

Due to the shortage of specialists, paediatric x-rays are interpreted by the medical officers and interns.

These doctors need support in interpretation of difficult cases. However, there is no digital x-ray machine and therefore images would have to be photographed and sent via email. SASPI has offered to assist the doctors in the interim but a more sustainable solution needs to be found.

The new TB clinic at the Baylor Center is a welcome addition to Swaziland's healthcare services as it will provide access to pathology and radiological investigations in one center. SASPI has offered its assistance with the training of the new staff in paediatric x-ray and ultrasound technique and interpretation of pulmonary and extra pulmonary manifestations of TB.

I am very grateful for this experience, as it was deeply humbling. It has ignited a passion in me to do more outreach as I can see the positive influence we made by sharing our knowledge and expertise.

Jaishree Naidoo

<https://www.facebook.com/pages/World-Federation-of-Pediatric-Imaging/176723089107785?ref=hl>

"the critical importance of lateral chest x-rays in assisting with the diagnosis of TB, was emphasized"

OTHER NEWS...

Nelson Mandela Children's Hospital

The Nelson Mandela Children's Fund has initiated the establishment of the Nelson Mandela Children's Hospital in Johannesburg. The construction began mid 2014 and is currently in its foundation phase.

The hospital will be situated on the Wits College of Education premises, in close proximity to the Wits Medical School and Charlotte Maxeke Johannesburg Academic Hospital.

The hospital is to provide specialised tertiary and quaternary healthcare to all sick children on a referral basis, irrespective of their socio-economic status.

The hospital will be a 200-bed dedicated children's hospital with centres of excellence in disciplines such as cardiology, nephrology, oncology, pulmonology, imaging, nuclear medicine, surgery and neurology. Expansion to 300 beds has been included in the design of the hospital.

The project was initiated in 2005 with stakeholder

consultative stages that included National and Provincial Departments of Health and the Wits Health Sciences Department, which have led to the design and configuration of the hospital.

NMCH will open its doors in 2016 and it will serve as the second children's hospital in the country, the other being the Red Cross War Memorial Children's Hospital in Cape Town.

At the recent NMCF Migration of Services Workshop, a discussion with the key stakeholders was held to determine the migration of paediatric hospital services and resources, in line with the national budgeting process. The Radiology department is expected to be a Centre of Excellence with an integral role in servicing the needs of the various sub-specialties with state of the art equipment and advanced imaging modalities.



Jaishree Naidoo

WFPI Mini-Symposium

Coordinated and edited by Professor Savvas Andronikou, this mini-symposium features a series of short commentaries and papers from paediatric radiologists around the world who are active in WFPI or in other outreach activities.

In the words of Dr. Peter Strouse, Pediatric Radiology Editor, *As you read, you will be struck by the disparity between wealthy countries, where most of us live and work, and the developing world, where health care resources are sparse and help is needed. These disparities are even more striking if one considers the sheer number of children who live in underserved areas of the world.*

This mini-symposium aims to expose the readership to the work of WFPI and related outreach ac-

tivities and convey a greater sense of the needs, the opportunities that exist, the challenges ahead and the accomplishments to date.

Above all, this international production reflects WFPI's primary purpose: communication and collaboration between paediatric imaging physicians via their organizations. This is the volunteer-based nucleus driving WFPI outreach forward. We hope our authors fuel its expansion, along with the ever-closer union on which our future work depends.

<http://www.pedrad.org/associations/5364/wfpi/Home/WFPIMiniSymposium.aspx>



<https://www.facebook.com/pages/World-Federation-of-Pediatric-Imaging/176723089107785>

RECENT PAEDIATRIC IMAGING CONGRESSES

The 57th annual meeting of the Society for Pediatric Radiology (SPR), Washington DC, USA 13 May -17 May 2014

The Society for Pediatric Radiology held their 57th annual meeting in Washington DC in May 2014. Three South African radiologists (Razaan Davis, Jaishree Naidoo and Tanyia Pillay) were amongst nearly 400 delegates in attendance.

The theme this year was “The paediatric radiologist consultant: bridging patient care and innovation to improve child health”.

This year the postgraduate conference had a new format, with each talk being ten minutes in duration. This allowed numerous topics to be covered in a short space of the conference with each speaker highlighting the essential points.



The scientific program was of an extremely high standard, covering various topics in all fields. The advances in research and the variety of original research projects were impressive. The “M&M cases: Stump the experts” was a great teaching and learning experience.



Drs T Pillay, J Naidoo & R Davis

The 51st annual meeting of the European Society of Paediatric Radiology (ESPR), Amsterdam. Netherlands 2-6 June 2014

The 37th Postgraduate course and 51st Annual meeting of the European Society of Paediatric Radiology was held on 2-6 June 2014 at the Grand Hotel Krasnopolsky, located at the Dam Square in the heart of Amsterdam.

The theme of ESPR 2014 was “Back to the future”. The presentations highlighted the numerous technical innovations in paediatric radiology whilst also emphasizing basic techniques that remain invaluable when imaging children.

There was also a specific focus on infectious diseases of the world and Professor Andronikou presented on “HIV and related infections”

Dr Namakulu Katende who is a 3rd year radiology

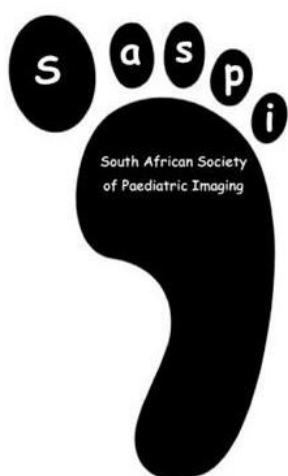
resident at the University of Witwatersrand presented her paper “Crash course for improving non-radiologists’ interpretation of chest radiographs for suspected TB in children; a ‘task shifting’ exercise”. Both these presentations were very well received.

Dr Jaishree Naidoo was a voting representative for SASPI at the World Federation of Paediatric Imaging (WFPI) annual general meeting held on June 5th at ESPR. The 2014 president’s and treasurer’s report was approved unanimously.

The quorum was satisfied for an amendment to WFPI’s bylaws authorizing future bylaw revisions to take place by e-mail subject to strict member voting provisions.

UPCOMING PAEDIATRIC IMAGING CONGRESSES

- ⇒ **Radiological Society of North America (RSNA)** - Chicago; 30 Nov - 5 Dec 2014
- ⇒ **International Conference on Radiology (ICR)** - London; 16 - 17 Feb 2015
- ⇒ **Society for Pediatric Radiology (SPR)** - Bellevue, Washington; 27 Apr - 1 May 2015
- ⇒ **European Society of Paediatric Radiology (ESPR)** - Graz, Austria; 2-6 June 2015
- ⇒ **Asian & Oceanic Society for Paed Radiology (AOSPR)** - Tokyo; 11-13 June 2015
- ⇒ **SASPI / RSSA PAEDIATRIC IMAGING CONGRESS - Cape Town; Nov 2016**



Formally inaugurated in March 2011, **SASPI** is a sub-group of the Radiological Society of South Africa (RSSA), and aims to:

- optimise national paediatric **imaging protocols** (available on the RSSA website)
- promote the **reduction of radiation exposure to children** during imaging (in accordance with the 'Image Gently®' campaign)
- advance **education** in paediatric radiology
- encourage paediatric radiology **research**
- support **outreach** projects locally and internationally (such as tele-reporting, site visits and clinico-radiological meetings)

Chair: Jaishree Naidoo

Vice-Chair: Tanyia Pillay

Administrator / Secretary: Vicci du Plessis

Co-opted Council Member: Tracy Kilborn (Education)

Our Members:

SASPI members are RSSA members with a special interest in paediatric radiology. Currently, we consist of **100 members** including registrars, radiologists, paediatric radiology fellows, and paediatric radiologists. Anyone who is a member of RSSA is welcome to join SASPI.

Affiliations:

Radiological Society of South Africa (RSSA)
 African Society of Paediatric Imaging (AfSPI)
 World Federation of Paediatric Imaging (WFPI)

Contact us: paediatricimaging@gmail.com



The Baby Footprint - compiled and edited by Vicci du Plessis