

# The World Federation of Pediatric Imaging

General Assembly - 2020 – 2022

Joanna Kasznia Brown, MD, President



Regional Societies



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## Council of Directors, 2020-2022



- ❖ President: Joanna Kasznia-Brown (ESPR)
- ❖ Vice-President: Andrés García Bayce (SLARP)
- ❖ Past President: Dorothy Bulas (SPR)
- ❖ Secretary: Cristian Garcia (SLARP)
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- ❖ Vice-Treasurer: John Chris Rodrigues (AfSPI)
- ❖ 5<sup>th</sup> Society Representative: Jae-Yeon Hwang (AOSPR)



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## Society Representatives 2020 -22



- ❖ AfSPI: Jaishree Naidoo and John Chris Rodrigues
- ❖ AOSPR: Timothy Cain, Kushaljit Singh Sodhi
- ❖ ESPR: Martin Stenzel, Rutger Jan Nivelstein
- ❖ SLARP: Pilar Dies, Alexandra Monteiro
- ❖ SPR: Taylor Chung, Diego Jaramillo



## Committee Chairs

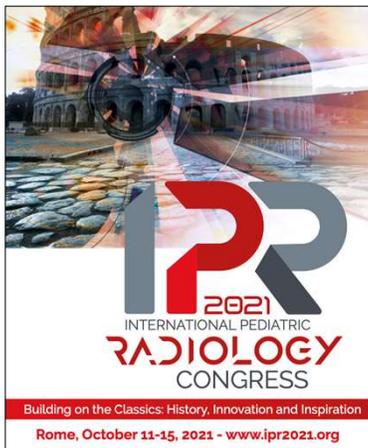


- ❖ Education: Sanjay Prabhu
- ❖ Outreach: Hansel Otero
  - ❖ Vice Chairs : Ricardo Faingold, Ramdas Senasi
- ❖ TB Leader: Kushaljit Singh Sodhi
- ❖ MRI Protocols: Michael Gee
- ❖ Thoracic – Ed Lee
- ❖ Research Assistance – Savvas Andronikou
- ❖ Neuroradiology – Kish Mankad



# The World Federation of Pediatric Imaging

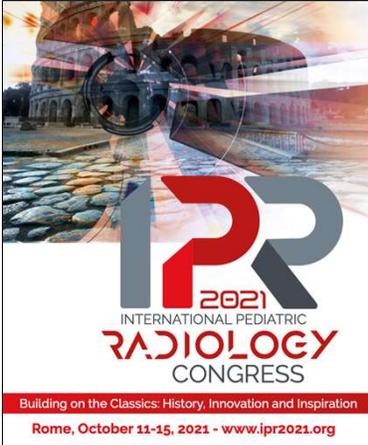
2021 – 2022



10<sup>th</sup> Anniversary of WFPI  
@ IPR 2021



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**IPR 2021**  
INTERNATIONAL PEDIATRIC  
**RADIOLOGY**  
CONGRESS

Building on the Classics: History, Innovation and Inspiration  
Rome, October 11-15, 2021 - [www.ipr2021.org](http://www.ipr2021.org)

## WFPI @ IPR 2021



- Open Forum and coffee morning
- 5 scientific sessions
- 2 poster presentations
  - history and achievements
  - mapping project



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## poster @ IPR 2021





**Pediatric Radiology for the World:  
10 years of the World Federation of Pediatric Imaging**

Dr. Andrés García-Bayce\*, Dr. Joanna Kasznia-Brown\*\*, Dr. Maria Inés Boechat\*\*\*

WFPI founded in 2011 at IPR London

**History...**

Mission: to provide an international platform for pediatric radiology organizations united to address the challenges in global pediatric imaging training and the delivery of services.

Member societies:

- African Society of Pediatric Imaging
- Asian and Oceanic Society of Pediatric Radiology
- European Society of Pediatric Radiology
- Sociedad Latinoamericana de Radiología Pediátrica
- Society for Pediatric Radiology

Founding president: Prof. Dr. Maria Inés Boechat

**... Present ...**

**Committees and Leadership**

**Education:** Dr. Sanjay Prabhu

- Web-based educational contents
- Pediatric radiology for the World webinar series
- WFPI Youtube channel (multilingual)
- Cases of the week in social media
- Partnerships:
  - Social media webinar series
  - Continuum Webinar Series

**Outreach:** Drs. Sander Odeyinka, Françoise Kamdem Sene

**Teleradiology:** Second opinion for difficult cases

- Existing referring centers:
  - Mexico (Morelia)
  - Zimbabwe (South Africa)
  - Las Fierres Hospital for Children (Luis)

**Tuberculosis group:** Dr. Karish Ingh-Isolt

- Collaboration for TB cases via WhatsApp
- Cases of interest
- Regional TB-focused cases:
  - Philippines
  - India

**Covid-19 group:** Dr. Michael Gao

- Collaboration in publications
- Cases of interest
- Podcasts

**MRI protocols:** Dr. Michael Gao

- Partnership with Siemens, GE and Philips
- Development of 11 standardised protocols available online



**WFPI mapping project**

A Global Mapping of Pediatric Radiologists and Pediatric Radiology Training

- First edition 2017
- Second edition 2021

**Observerships**

From 2018, with support of WFPI and Bill Shields Foundation.

3 months observerships at Pediatric Radiology training centers

- South Africa (2018)
- India (2019-2020)
- Philippines (2019)
- Argentina (2019)
- Chile (1 delayed due to pandemic)

**Website** – Dr. Sanjay Prabhu

- Content coordination
- Digital ambassador
- Link to health centers:
- Book Order: India (India) - Hyderabad
- Hospital Central de Niños - Montevideo
- South African Pediatric Hospital - Grahamstown
- Las Fierres Hospital for Children - Luis

**On-site teaching**

Partnerships and "bolt-on" affiliations to existing initiatives:

- Medeiros sans frontiers
- RAD-ASB (Luis)
- Imaging the World (Hyderabad)
- CHOP- South Alabaca University fellowship program (Chile)
- UCLA's Center for World Health (Chile)
- ACR (India)

**Radiation safety alliances**

WFPI supports and enhances the Image Gently Alliance and the work of the World Health Organization, other societies and agencies throughout the world in the goal of promoting radiation protection for children worldwide

**WFPI / ISR collaboration**

The WFPI has signed a collaboration agreement with the International Society of Radiology on the basis of scientific and educational purposes

**... and Future**

- Resuming of observerships post Covid-19 pandemic
- WFPI-SLARP Network for Online MRI Teaching in Latin America: new webinar series
- Creation of MRI safety video material
- Expansion of number of teleradiology referring centers
- Creation of Research Committee for editorial support, in collaboration with SLARP
- Creation of Ultrasound task force to work on on-site and online teaching initiatives



# WFPI @ IPR 2021



## Global Mapping of Paediatric Radiologists and Paediatric Radiology Training

Dr J Whitworth<sup>1</sup>, Dr R Guaba<sup>2</sup>, Prof K Sodhi<sup>3</sup>, Prof A Garcia-Bayce<sup>4</sup>, Dr I Boechat<sup>5</sup>, Dr J Kasznia-Brown<sup>6</sup>

European Society of Paediatric Radiology

### Aims

- To establish the number of Paediatric Radiologists per country around the world
- To assess how the training of a specialist Paediatric Radiologist is defined in different countries
- To demonstrate the availability of centres offering dedicated training in Paediatric Radiology, and in which imaging modalities

### Methods

- Using WFPI members, and regional & national member societies, a survey was distributed to Paediatric Radiologists around the world. Responses were collated from 75 countries from the following questions:
  - How is a Paediatric Radiologist defined in your country, and how are they trained?
  - Based on this definition, how many Paediatric Radiologists are there working in your country?
  - What proportion of Paediatric studies are reported by Paediatric Radiologists?
  - How many Paediatric Hospitals are there in your country and how many offer formal fellowships in Paediatric Radiology?

### Europe

- 28 respondents – 1/28 (Belarus) has no dedicated Paediatric Radiologists
- Majority of countries have at least 1 Paediatric Radiologist per 100,000 children – the exceptions are Turkey, Germany and Albania (although countries have different definitions of the role – the first two require a fellowship)
- The proportion of Paediatric studies being reported by Paediatric Radiologists ranges from 100% (Germany) to 15% (France) – Mean = 55%

### Asia/Oceania

- 14 respondents – all have dedicated Paediatric Radiologists
- Number of children per Paediatric Radiologist ranged from 16 million (India) to 40,000 (Australia and Qatar), although India requires a 1-2 year fellowship
- 12 countries have centres offering dedicated fellowships
- All these offer training in DR, US, CT, Fluoroscopy & MRI. There is partial availability of Nuclear Medicine (11 countries) and PET/CT (8)

### Europe

- 28 respondents – 1/28 (Belarus) has no dedicated Paediatric Radiologists
- Majority of countries have at least 1 Paediatric Radiologist per 100,000 children – the exceptions are Turkey, Germany and Albania (although countries have different definitions of the role – the first two require a fellowship)
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### Africa

- 13 respondents – 2/13 (Mauritius and Sierra Leone) have no dedicated Paediatric Radiologists
- Number of children per Paediatric Radiologist ranged from 14.7 million (Ethiopia) to 400,000 (Egypt) – although countries have different definitions of the role. Ethiopia requires a 1-2 year fellowship
- The proportion of Paediatric studies being reported by Paediatric Radiologists ranges from 90% (Tunisia) to 10% (Ligandja) – Mean = 40%
- Ethiopia, Sudan and South Africa have centres offering dedicated fellowships
- All these centres offer training in DR, US, CT & MRI. There is partial availability of Fluoroscopy (2 countries), Nuclear Medicine (1) and PET/CT (1)

### The Americas

- 19 respondents – 1 has no dedicated Paediatric Radiologist (Bolivia)
- Number of Children per Paediatric Radiologist ranged from 1.6 million (Ecuador) to 32,000 (Uruguay). The majority of countries have more than one specialist/million children.
- The proportion of Paediatric studies being reported by Paediatric Radiologists ranges from 100% in Argentina to 3% in El Salvador – Mean = 32%
- 12 countries have centres offering dedicated fellowships
- All these offer training in DR, US, CT & Fluoroscopy. There is partial availability of MRI (8 countries), Nuclear Medicine (7) and PET/CT (5)

### Key Points

- The majority of countries have specialist Paediatric Radiologists, but the numbers and level of training are highly varied
- 41 of 75 countries are able to offer dedicated fellowships, although training in some modalities is not widely available.



# WFPI @ IPR 2021



**11:00-13:00 WFPI PRE-COURSE COLLOQUIUM**  
**Session II-A**  
**Epidemics and pandemics – the role of the pediatric radiologist**  
 Moderators: Timothy Cain (Melbourne, Australia), Joanna Kasznia-Brown (Bristol, UK)

11:00-11:20 **New pediatric lung infections including COVID-19 pneumonia: what radiologists need to know**  
 Edward Y. Lee (Boston, USA)

11:20-11:40 **Atypical chest infections and mimickers: interactive session**  
 Winnie Chu (Hong Kong)

11:40-12:00 **The changing picture of HIV infections**  
 Tracy Kilborn (Cape Town, South Africa)

12:00-12:20 **Malaria - when and how to image**  
 Omolola Atalabi (Ibadan, Nigeria)

12:20-12:40 **ZIKA virus - experience from South America**  
 Pedro Daltro (Brazil)

**14:15-15:45 WFPI PRE-COURSE COLLOQUIUM**  
**Session II-B**  
**Imaging of tuberculosis – past or current problem?**  
 Moderators: Savvas Andronikou (Philadelphia, USA), Kushaljit Sodhi (Chandigarh, India)

14:15-14:35 **Classical signs of TB – what do I need to know?**  
 Nasreen Mahomed (Johannesburg, South Africa)

14:35-14:55 **Look beyond the lungs – MSK and CNS involvement**  
 Bernard Laya (Quezon City, Philippines)

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 Jaishree Naidoo (Johannesburg, South Africa)

15:15-15:35 **New imaging approach and future directions in TB imaging**  
 Kushaljit Sodhi (Chandigarh, India)

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## WFPI @ IPR 2021



### 16:15-17:45 WFPI PRE-COURSE COLLOQUIUM

#### Session II-C

#### Paediatric MRI – worldwide approach

*Moderators:* Wendy Lam (Hong Kong, Hong Kong), Michael Gee (Boston, USA)

16:15-16:35 **Standardisation of paediatric MRI: international initiatives**

Wendy Lam (Hong Kong, Hong Kong)

16:35-16:55 **Challenges in paediatric MRI: technical details I hate, but need to know**

Michael Gee (Boston, USA)

16:55-17:15 **Updates and new approaches in paediatric musculoskeletal MRI**

Ramy Mansour (Oxford, UK)

17:15-17:35 **Oncology and whole body MRI imaging: how and when to achieve the best results**

Joanna Kasznia-Brown (Bristol, UK)

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## WFPI @ IPR 2021



### 8:30-10:00 WFPI PRE-COURSE COLLOQUIUM

#### Session II-D

#### Paediatric ultrasound – who, how and where (WFPI)

*Moderators:* Savvas Andronikou (Philadelphia, USA), Jovan Lovrenski (Novi Sad, Serbia)

8:30-8:50 **Point-of-care ultrasound initiatives - the bridge to health partnership experience and beyond**

Hansel Otero (Philadelphia, USA)

8:50-9:10 **Training initiatives and task shifting in Africa**

Kristen Destigter (Burlington, USA)

9:10-9:30 **Standards and experience: a long history of practice in South America**

Ramon Sanchez (Washington DC, USA)

9:30-9:50 **New techniques and equipment – value and challenges**

Jeevesh Kapur (Singapore)

9:50-10:00 **Discussion**

### 10:30-12:00 WFPI PRE-COURSE COLLOQUIUM

#### Session II-E

#### Paediatric ultrasound – forgotten tool

*Moderators:* Bernard Laya (Quezon City, The Philippines), Tracy Kilborn (Cape Town, South Africa)

10:30-10:45 **Value of neuro ultrasound**

Sanjay Prabhu (Boston)

10:45-11:00 **Chest ultrasound: yes, we can see it**

Jovan Lovrenski (Novi Sad, Serbia)

11:00-11:15 **Ultrasound for diagnosing tuberculosis**

Savvas Andronikou (Philadelphia)

11:15-11:30 **New recommendations in abdominal imaging**

Joanna Kasznia-Brown (Bristol, UK)

11:30-11:45 **Musculoskeletal imaging: when to replace x-rays and MRIs?**

Ramy Mansour (Oxford, UK)

11:45-12:00 **Discussion**

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# 10<sup>th</sup> Anniversary of WFPI @ IPR 2021

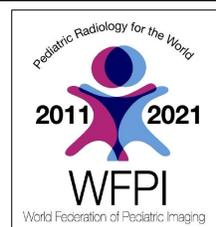


- 15:50-16:50 SCIENTIFIC SESSION II-C: (concurrent)  
WORKING TOGETHER - Celebrating the 10th Anniversary of the WFPI**  
Moderators: Joanna Kasznia-Brown (Bristol, UK), SLARP
- 15:50-16:05 **The time is now - urgent need for global approach in paediatric imaging**  
Catherine Owens (Doha, Qatar)
  - 16:05-16:20 **WFPI and current international initiatives in paediatric radiology**  
Dorothy Bulas (Washington, USA)
  - 16:20-16:35 **The importance of understanding cultural and political differences in large international societies**  
Timothy Cain (Melbourne, Australia)
  - 16:35-16:50 **The WFPI: a success story**  
Maria Ines Boechat (Los Angeles, USA)



Working together

2021 - 2022



## Working together

2021 - 2022



- SPR
- ESPR
- SLARP
- AOSPR
- AfSPI



## Annual scientific meetings 2022

- SPR: 27 Apr–1 May 2022, Denver, Colorado
- SLARP: 12-14 May 2022, Cartagena, Columbia
- ESPR: 6-10 June, Marseille, France



## Annual scientific meetings 2022

- AOSPR: 19 – 20 August, Manila – virtual



## Annual scientific meetings 2023

- SLARP: 27 – 30 Apr 2023, Sao Paulo, Brazil
- SPR: 16 - 20 May 2023, Austin, Texas
- ESPR: 5 - 8 June, Belgrade, Serbia
- AOSPR: 2 – 3 September 2023, Hong-Kong



WFPI sessions



Working together

2021 - 2022



- **WHO**
- **ISR** – International Society of Radiology
- **WFUMB** – World Federation of Ultrasound in Medicine and Biology
- **ISMRI** – International Society of MRI
- **RAB** – Radiology Across Borders



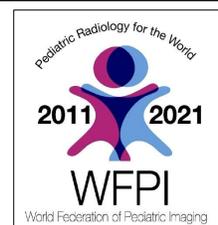
**WORLD TB DAY 2022  
SCIENTIFIC SYMPOSIUM**

Updated WHO guidelines on the management of tuberculosis in children and adolescents: the role of chest radiography

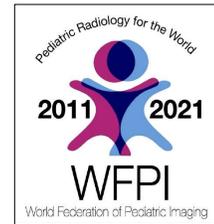
THURSDAY, 24 MARCH 2022  
5PM-7PM CET

INVEST TO END TB SAVE LIVES

World Health Organization

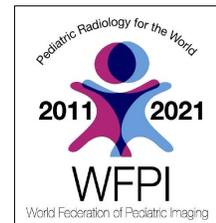
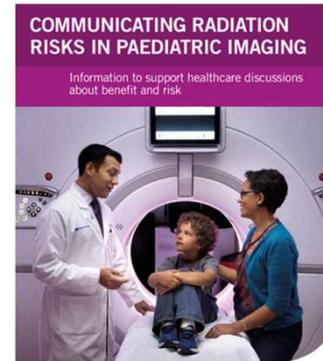


**WHO-ISR-WFPI World TB Day 2022 Scientific Symposium**



- Phase 1 - Course
  - 22 March – 28 May 2021
- Phase 2 – Impact Acceleration Launch Pad
  - 7 March – 1 April 2022

**The Geneva Learning Foundation (TGLF) and WHO Scholar Level 1 Course “Radiation Risk Communication to Improve Benefit-risk Dialogue in Paediatric Imaging”**



- ISR Quality and Safety Alliance
- Educational Committee
- International Congress Radiology
  - 13-15 March 2023
  - Hurghada, Egypt



# World Federation of Ultrasound



- MoU
- Educational programme
- World Congress of WFUMB – 25 – 28 May 2022, Romania
- Paediatric session at WFUMB Congress



## WFPI sessions

1. Emergency ultrasound imaging in paediatric intensive care  
Dr Joanna Kasznia-Brown, Bristol, UK
2. Importance of cerebral ultrasound for evaluation and monitoring of neonates undergoing surgery  
**Dr Oana Stanciu, Bucharest, Romania**
3. Catheter related complications in the Neonatal Intensive Care  
Dr Andres Garcia Bayce, Uruguay
4. Chest ultrasound in paediatric imaging  
**Dr Jovan Lovrensky, Novy Sad, Serbia**
5. Imaging of small bowel in children  
Dr Joanna Kasznia-Brown, Bristol, UK
6. Pre and postsurgical ultrasound aspects in paediatric ultrasound torsion  
**Cristina-Mihaela Popescu, Bucharest, Romania**



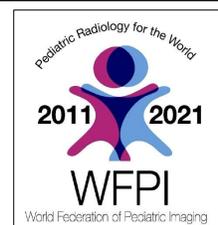
## Meeting with WFUMB Exec Com



- Educational material in pediatric ultrasound
- Safety standards and guidelines
- WFUMB Centres of Educations
  - 19 centres through all continents
  - paediatric radiology representative to each centre
- WFPI sessions at future meetings
  - Euroson – May 2023, Estonia
  - WFUMB Congress - 3 -7 November 2023, Oman



## ISMRI – WFPI



## International Society of MRI



### *Work in progress*

- MoU
- Educational programme
- MRI protocols and technical support
- Survey of paediatric MRI services
- Joint sessions at scientific meetings
  - 3 – 8 June 2023, Toronto, Canada

#### MR Academy

*Introducing the MR Academy Vault!*

#### MR Safety Resources

**NEW** MR Safety Week: 24-30 July

#### E-Library



## Radiology Across Borders



- MoU
- Educational programme

#### PAEDS VITAL

Paediatric imaging  
In-nation visits &  
conferences

#### CERTIFICATE

International Certificate  
in Radiology  
Fundamentals

#### RABINARS

Radiology  
teleconferences

### Paeds VITAL

**Education** and training in paediatric imaging to enhance, improve and support child imaging services

## Education Project Report – Sanjay Prabhu



- ❖ Pediatric Radiology for the World Webinars during pandemic
- ❖ Continued presence on social media-case-based education, review summaries
- ❖ YouTube channel growth
- ❖ Partnerships with other societies (co-promotion)
  - ASNR, ASPNR, IPNTN
  - SPR multi-institutional webinar series
  - ESPR/JESPeR webinars
  - COVID education (Dr. Lee)
  - TB Day (Dr.s Brown & Sodhi)



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## Education Project Report



- ❖ Next 3-6 Months:
  - ❖ Further partnerships with other organizations- RAD-AID
  - ❖ Study day (Dr. Mankad will elaborate)- house the study day videos on the YouTube channel
  - ❖ Revive case-based education
  - ❖ “How I do it” videos of common pediatric imaging procedures
- ❖ Transition of digital education leadership



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## Outreach Leadership

- ❖ Hansel Otero - Outreach Chair
- ❖ Ricardo Faingold and Ramdas Senasi appointed co-chairs for the same term.



Hansel Otero, MD



Ricardo Faingold, MD



Ramdas Senasi, MD



## Updates

- ❖ Teleradiology platform - Hospital Central de Maputo, Lao Friends Hospital, Zithulele, South Africa
  - ❖ Mean number of cases March-May: 11
  - ❖ Median allocation delay 0.8 hours (min=0.0, max=6.7)
  - ❖ Median answer delay was 8.1 hours (min=0.2, max=101.2)
- ❖ Educational Programs
  - ❖ Kummasi, Ghana: Edward Ebo
  - ❖ Addis, Ethiopia: Fathia Salah, Samuel Sisay
  - ❖ Pediatric QA/QI through PAHO
- ❖ Research
  - ❖ Teleradiology cases for education
  - ❖ Butterfly



## Questions?

oteroh@email.chop.edu



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## TB Group – Kushaljit Singh Sodhi

- ❖ Lead- Kushaljit Singh Sodhi
- ❖ Founding Lead-Bernard Laya
- ❖ Members- ~18 -20



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# TB Group 2021-22 Update



- TB lectures have been stored on the WFPI website
- TB session at IPR 2021 in Rome
- Mini Symposium on ‘Imaging in Pediatric Tuberculosis’
- Joint WFPI-WHO-ISR global session World TB day: March 24



<https://www.wfpiweb.org/OUTREACH/TBCorner.aspx>



WFPI  
TB CORNER  
ON WFPI  
WEBSITE



# WFPI TB Corner

<https://www.wfpiweb.org/OUTREACH/TBCorner.aspx>

❖ TB lectures on WFPI website

**Literature produced by WFPI's Childhood TB Group for TB Corner**

- Nontuberculous Mycobacterial Pneumonia: Radiologic and Clinical Correlation in an Infant Presenting with Respiratory Distress
- Tuberculous Meningitis: Basal Cistern Enhancement Pattern on CT imaging
- The Role of Ultrasound in the Diagnosis of Extrapulmonary TB
- Tuberculosis with HIV Co-infection - Chest, Abdomen and Neuroimaging Manifestations
- Skeletal Involvement in Pediatric Tuberculosis - Radiologic Imaging Manifestations
- Chronic diarrhea: an unusual symptom of gastrointestinal tuberculosis
- The Many Faces of Hepatic Tuberculosis
- Drug Resistant Tuberculosis - Radiologic Imaging Manifestations

**Lectures & videos from our Childhood TB group**

**CHILDHOOD TUBERCULOSIS**

From Prof. Bernard Laya MD  
 Prof. Laya is a member of [The Philippine College of Radiology, AOSPR](#), a former member of WFPI's governing Council and formerly led WFPI's Childhood TB Group

**Below: Sav's Snippets** "Sav's 7 Minutes Radiology" - a series of short, informative and entertaining lectures on pediatric X-rays Produced by Prof. Savvas Andronikou

Developed by SAMU - Medical Unit of MED South Africa ([www.samu.co.za](#)) - and WFPI. Produced by Aviro health ([www.aviro.com](#))

[Clues: frontal film, click here](#)

[Clues: lateral film, click here](#)

# WFPI TB Corner: TB SESSION AT IPR 2021 ROME

IPR 2021 ROME : Sunday, October 10, 2021



<b>14:15-15:45</b>	<b>WFPI PRE-COURSE COLLOQUIUM</b> <b>Session II-B</b> <b>Imaging of tuberculosis – past or current problem?</b> <i>Moderators:</i> Savvas Andronikou (Philadelphia, USA), Kushaljit Sodhi (Chandigarh, India)	
14:15-14:35	<b>Classical signs of TB – what do I need to know?</b> Nasreen Mahomed (Johannesburg, South Africa)	
14:35-14:55	<b>Look beyond the lungs – MSK and CNS involvement</b> Bernard Laya (Quezon City, Philippines)	
14:55-15:15	<b>Mimics and pitfalls in imaging of childhood TB</b> Jaishree Naidoo (Johannesburg, South Africa)	
15:15-15:35	<b>New imaging approach and future directions in TB imaging</b> Kushaljit Sodhi (Chandigarh, India)	
15:35-15:45	<b>Discussion</b>	<b>BACK TO INDEX</b>



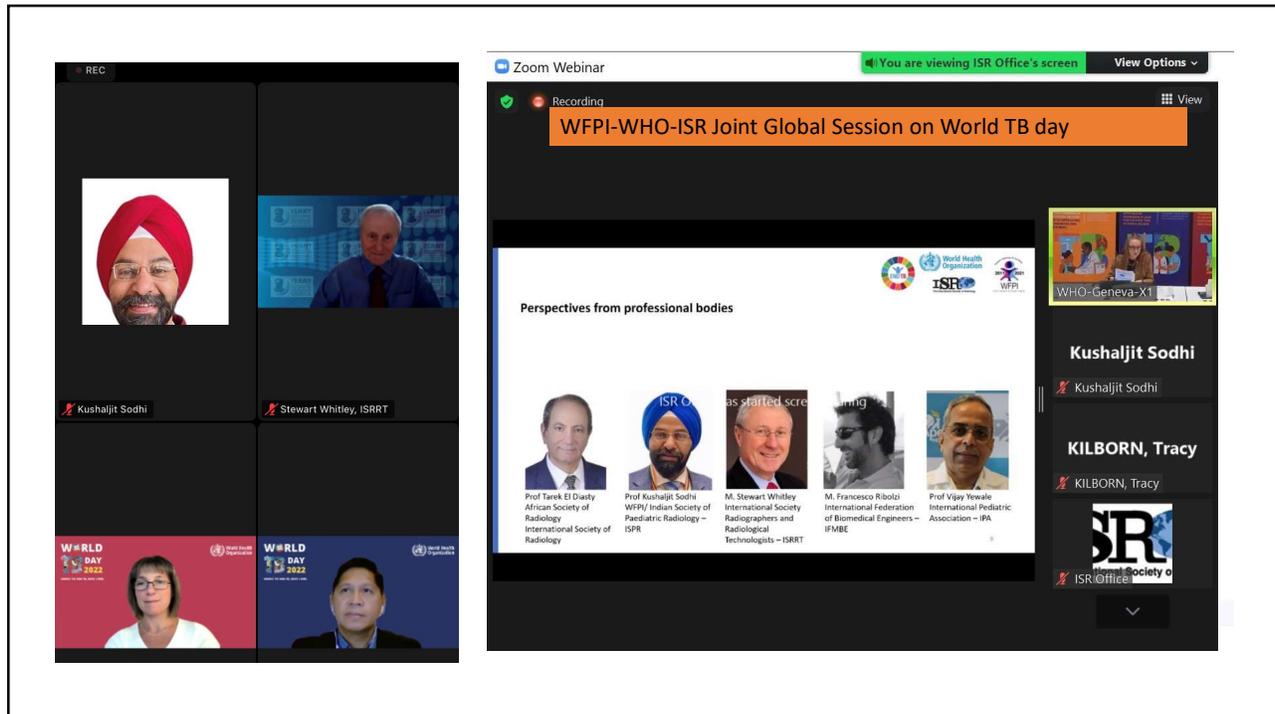
## WORLD TB DAY : 24<sup>TH</sup> March,2022



## WFPI-WHO-ISR Joint Global Session



- The World Health Organization (WHO) and the International Society of Radiology (ISR) along with the World Federation of Paediatric (WFPI) jointly hosted a special World TB Day 2022 scientific symposium: **Updated WHO guidelines on the management of tuberculosis in children and adolescents: the role of chest radiography** to mark the release of updated WHO guidance.



## Highlights of the WHO-ISR-WFPI Global session



Program was introduced by Dr Tereza Kasaeva, Director, Global Tuberculosis Programme, World Health Organization

### Session was moderated by Chairs:

- Dr Donald Frush (ISR),
- Dr Farai Mavhunga (WHO)
- Dr Joanna Kasznia Brown (WFPI)
  
- Kushaljit Singh Sodhi, from WFPI presented the WFPI and Indian Society perspective.
- Bernard Laya – participated in panel discussion: Challenges in accessing chest radiography and using it to diagnose and treat TB in children



## World TB day

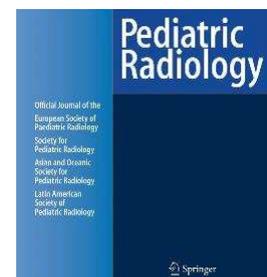
- > 400 people attended.
- Session received a lot of questions and comments
- WHO has also released a newsletter for this event
- Link to access :  
<https://mailchi.mp/who/worldtbdays2022newsletter>



## Mini Symposium on 'Imaging in Pediatric Tuberculosis' in the Pediatric Radiology Journal

1. Evolving role of plain radiograph in Pulmonary TB
2. Ultrasound and MRI in Thoracic TB
3. Classical Imaging findings in Tuberculosis : TB revisited
4. Guidelines and Imaging Algorithm for Pediatric TB
5. AI in Pediatric Tuberculosis
6. Global Resources in fight against TB

## TB Group



# WFPI MR Protocols Committee: standardized MR protocol content now online on WFPI website

<https://www.wfpiweb.org/Resources/Modalities/MRIProtocols.aspx>

Sequence	Phase	Duration	Indications	Best acquisition plane
RAPID	Fast	1.5 min	Acute pathology	in coronal to optimize imaging of sinuses
FLAIR	Fast	2.5 min	Acute pathology	
T2	Fast	2.5 min	Chronic pathology	
T2	Fast	2.5 min	Chronic pathology	
SAR	Control	2.5 min		
T1	Fast	1-10.15 min		

Sequence	Phase	Duration	Indications	Best acquisition plane
RAPID	Fast	1.5 min	Acute pathology	in coronal to optimize imaging of sinuses
FLAIR	Fast	2.5 min	Acute pathology	
T2	Fast	2.5 min	Chronic pathology	
T2	Fast	2.5 min	Chronic pathology	
SAR	Control	2.5 min		
T1	Fast	1-10.15 min		

Sequence	Phase	Duration	Indications	Best acquisition plane
RAPID	Fast	1.5 min	Acute pathology	in coronal to optimize imaging of sinuses
FLAIR	Fast	2.5 min	Acute pathology	
T2	Fast	2.5 min	Chronic pathology	
T2	Fast	2.5 min	Chronic pathology	
SAR	Control	2.5 min		
T1	Fast	1-10.15 min		

# WFPI-SLARP Network for Online MRI Teaching in Latin America

12 conferences over a 9-month period beginning in 2020:

- Initially 1 Saturday / month
- Increased to 2 Saturdays /month

Webinar format

- 1324 registered for the webinar.

Content in Spanish:

- Available to stream on WFPI education channel

## Entrenamiento Virtual en Resonancia Magnética Pediátrica

### RESONANCIA MAGNÉTICA EN ANOMALÍAS MULLERIANAS EN PEDIATRÍA



**Mónica Sestopal Epelman, MD**  
Newours, Children's

**Fecha:** Tercer sábado de cada mes, 11:00 am EST

17 de Octubre, 2020  
21 de Noviembre, 2020  
19 de Diciembre, 2020  
16 de Enero, 2021

**20 de Febrero, 2021**

20 de Marzo, 2021  
17 de Abril, 2021  
15 de Mayo, 2021

La SLARP y la WFPI los invita a participar en una serie de seminarios virtuales sobre Resonancia Magnética Pediátrica especializada (Piel, hepatobiliar, urinario, cerebro, cabeza y cuello, musculoesqueléticos y mucho más)

**Auspician:** WFPI - The World Federation of Pediatric Imaging

**Inscripción gratuita:**

## Disminuyendo el uso de sedación en RM pediátrica



**Maddy Artunduaga**  
UT Southwestern  
Dallas, TX



**Camilo Jaimes**  
Boston Children's Hospital  
Boston, MA



**Michael Gee**  
Mass General Hospital  
Boston, MA

Courtesy of Camilo Jaimes



## WFPI-SLARP Network for Online MRI Teaching in Latin America



Total number of  
live attendees:  
**2609**

Total number of  
streams from  
WFPI website:  
**1982**

Title	Attendees (Live)	Stream (WFPI online)
Radiogenomics in Pediatric Brain tumors	511	320
Hepatobiliary Contrast Agents	272	202
Common and not so Common Fetal Lung Lesions	204	170
Pediatric Hip Imaging	170	440
Mullerian Anomalies	236	135
Evaluation of Response in Pediatric Brain Tumors	191	75
MRI of the Knee in Children	212	217
MRI of Normal Skeletal Development	218	181
Twin-Twin Transfusion Syndrome	143	70
Principles of Pediatric Cardiac MRI	153	67
MRI of the Genitourinary System	163	105
Decreasing Sedation in Pediatric MRI	136	Just posted!

Courtesy of Camilo Jaimes



### WFPI MR Protocols Committee ongoing projects:

- Create MRI safety material as WFPI educational content
- Identify sites for testing/optimizing pediatric MR protocols
- Expand set of standardized MR protocols
- Discussions with ISMRM re: shared pediatric MRI educational content

## Sample MRI safety content under development

(courtesy of Jon Chia, Philips Healthcare)

ACR Zone	Occupants	Hazards
Zone I	General public	Negligible MRI hazards
Zone II	Unscreened MRI patients	Immediately exclude metals of patient
Zone III	Screened MRI patients / personnel	Potential for projectile interference and access to MRSA zones
Zone IV	Screened MRI patients under constant direct supervision of trained MRI personnel	No projectile interference, RF heating, acoustic effects, and cryogen

Can you name objects that should not be in the examination room?



## Thoracic Imaging Committee

### ❖ Establishment

- ❖ Formerly COVID-19 Task Force (successful transition)
- ❖ Fulfills the current need for the organized approach to advancing pediatric thoracic imaging
- ❖ Enthusiastic experienced and young representatives from all continents

### ❖ On-Going Activities

- ❖ Pediatric Thoracic Imaging Expert Consensus Statement Paper
  - ❖ Invited review article on Neonatal Thoracic Imaging
  - ❖ Journal of Thoracic Imaging
  - ❖ Collaborating with ISPTI (International Society of Pediatric Thoracic Imaging)
- ❖ Follow-up Survey Study on Impact of COVID-19 on Pediatric Radiology
  - ❖ Lead by previous WFPI COVID-19 Task Force
  - ❖ Journal of Radiology: Cardiothoracic Imaging



Perceived Impact of COVID-19 on Pediatric Radiology Departments Around the World: WFPI COVID-19 Task Force Survey Results from 6 Continents

### WFPI Thoracic Imaging Committee

Edward Y. Lee, MD, MPH, USA (Chair)

#### Europe

Tom Semple, MD (England)  
 Jenny Bracken, MD (Ireland)  
 Pilar Garcia-Pena, MD (Spain)  
 Domen Plut, MD (Slovenia)  
 Jovan Lovrenski (Serbia)

#### Asia

Winnie C. Chu, MD (Hong Kong)  
 Marielle V. Fortier, MD (Singapore)  
 Supina Kritsaneepaiboon, MD (Thailand)  
 Adji Saptogino, MD (Indonesia)  
 Kushajit S. Sodhi, MD (India)

#### North America

Ricardo Restrepo, MD (USA)  
 Abbey J. Winant, MD (USA)  
 Monica Epelman, MD (USA)  
 Mark Liszewski, MD (USA)

#### South America

Pedro Daltro, MD (Brazil)  
 Jose Ernesto Lipsich, MD (Argentina)

#### Africa

Tracy Kilborn, MD (South Africa)  
 Omolola M. Atalabi, MD (Nigeria)

#### Middle East

Karuna M. Das, MD (United Arab Emirates)  
 Abdusamea Shabani, MD (Qatar)



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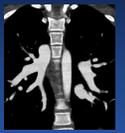
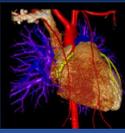
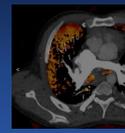
**❖ Planned Activities**

- ❖ Creation of up-to-date and practical pediatric thoracic imaging education
  - ❖ Monthly “meet the experts” session
  - ❖ Quarterly hot topic didactic lecture
- ❖ WFPI Trainee Thoracic Imaging Committee
  - ❖ Medical school students, residents and fellows
  - ❖ Developing early interest in pediatric radiology in general and pediatric thoracic imaging in particular
  - ❖ Increased involvement in social media presence







**WFPI Thoracic Imaging Committee**

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## Research Assistance



**Committee members**

- ❖ Savvas Andronikou, Chair
- ❖ Hansel Otero, Vice Chair and research training
- ❖ Jovan Lovrenski, Eastern Europe, US
- ❖ Kushalijit Sodhi, Asia Oceania, TB
- ❖ Monica Miranda Schaeubinger - data and statistics
- ❖ Africa – Tracy Kilborn?

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## Research Assistance



### Mission/Charge:

- ❖ to promote and support research in paediatric radiology, for under-resourced environments through mentoring, teaching, training and writing support.

Amaka Offiah

Re: Proposal to assist authors from developing countries and non-English first language

To: savvas.andronikou, Cc: Dr Joanna Kasznia-Brown, Joanna Kasznia-Brown, Mojisola Atalabi, Monica Epelman, Monica Epelman, andrew.trout@cchmc.org & 1 more

2 June 2022 at 18:23

Details

AO

Siri found updated contact info Amaka Offiah I.crowson@sheffield.ac.uk

update...

Dear Savvas,

Thanks for your email and congratulations on your new role.

We (editors) will discuss and get back to you on this, bearing in mind the discussions I instigated with you and Joanna late last/early this year about improving quality of publications from lower resourced countries and actions I've already taken to put those plans in motion.

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## Global Issues Supplement *Pediatric Radiology*:

Guest Editors: H. Otero, S. Andronikou (and P. Pavićević)



### Introduction and general interest topics

1. Guest Editorial [HO, SA] **We move beyond neglected tropical disease to showcase the value of international research and collaboration with a focus on innovation that can teach colleagues in high-income/high-resource settings how to advance academic endeavours without complicated bureaucratic structures, expensive software and external funding**
2. Supporting publication of research from LMIC [Amaka Offiah]
3. Global Village – engineering a global community of future academic pediatric radiologists [S.A.]
4. The value of educational endeavours- Teaching pediatric radiology as a strategy for the specialty survival] [Joanna K Brown]

### Innovative Global Research “We will send out a call for research innovations in LMIC topics through our societal partners”

1. Low field MRI for Malaria – [Lorena Vidal et al]
2. Non-fluoroscopy fluoroscopic studies in new-borns and children: a story from Malawi [Karen Chetcutti]
3. AI diagnosis of paediatric COVID in Africa [Jaishree Naidoo]
4. FAST MRI for diagnosing TB in children: the sub-ten-minute scan [Tanyia Pillay]
5. Communicating Complex Imaging to lay people: picking out abnormal brains from 3D printed models [Anith Chacko]

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## Neuroradiology

- ❖ Kish Mankad, Chair
- ❖ Committee members
- ❖ Mission/Charge: Creation of BUILDING BLOCKS- focused study days
- ❖ Not restricted to Neuroradiology
- ❖ Once every two months for an annual cycle
- ❖ Sundays, at a world time suited to all/most
- ❖ Suggest British 13:00-17:00 (as an example)
- ❖ Teachers from across the planet for enhanced inclusivity
- ❖ Topics: Pediatric H&N; Neuro-oncology; Then to roll over to some body imaging days
- ❖ Timeline: First day can be delivered in October.
- ❖ Discussion point: Change from Neuroradiology, and amalgamate with education & training



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## Observerships - 2022

- ❖ Philippines – 7/1/2022 – 9/30/2022
- ❖ India – 10/1/2022 – 12/31/2022
- ❖ Chile – 9/1/2022 – 11/31/2022
- ❖ Dubai – TBA



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## Argentina



❖ Observership in Argentina – Under the mentorship of Jose Lipsich

❖ December 1, 2019 – February 29, 2020

❖ Dr. Leticia Gadea



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## Chile



❖ Observership in Chile – Under the mentorship of Cristian Garcia

❖ Submitted applications out for review

**CALL FOR APPLICATIONS**

THE WFPI-SHIELDS FOUNDATION PEDIATRIC RADIOLOGY OBSERVERSHIP @ PONTIFICIA UNIVERSIDAD CATOLICA IN SANTIAGO, CHILE

Online application and program details available at [www.wfpinet.org/fellowships/](http://www.wfpinet.org/fellowships/)

Questions? [wfpnet.office@gmail.com](mailto:wfpnet.office@gmail.com)

Application Deadline: July 17 2022  
Program: September - November 2022








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## India

### ❖ Observerships in India – Under the mentorship of Kushaljit Sodhi

- ❖ April 1 – June 30, 2019
  - ❖ Dr. Anitha Kini
- ❖ March 9 – June 8, 2020
  - ❖ Dr. Anand Muthiah
- ❖ October 1 – December 31, 2022
  - ❖ Submitted applications out for review



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## The Philippines

### ❖ Observerships in the Philippines – Under the mentorship of Bernie Laya

- ❖ August 1 – October 30, 2019
  - ❖ Dr. Joanna Marie Choa
- ❖ 2020 program delayed due to COVID-19
- ❖ July 1 – September 30, 2022
  - ❖ Dr. Justin Yap



## South Africa



- ❖ Planned Observership in South Africa postponed indefinitely due to COVID-19
  - ❖ Re-schedule in 2023
- ❖ WFPI Providing support for year-long fellowship @ Red Cross Children's Hospital : Edward Ebo Ocran



**PROGRAM POSTPONED DUE TO COVID-19  
CALL FOR APPLICATIONS**

THE WFPI-SHIELS FOUNDATION PEDIATRIC RADIOLOGY OBSERVERSHIP @ PONTIFICIA UNIVERSIDAD CATOLICA IN SANTIAGO, CHILE  
Online application and program details available at [www.wfpweb.org/Fellowships/](http://www.wfpweb.org/Fellowships/)  
Questions? [wfp.office@gmail.com](mailto:wfp.office@gmail.com)



Application Deadline: **Postponed**  
Program: **TBA**






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## Support from the Shiels Memorial Foundation



We are grateful for the support of the William Shiels Memorial Foundation at Nationwide Children's Hospital who has pledged 5 years of support for the WFPI Pediatric Radiology Observership Program.

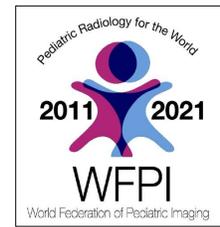


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# The World Federation of Pediatric Imaging

2022 – 2023



## Welcome to 2022-23 President: Andrés García Bayce



Left:  
 Andrés García Bayce, President  
 Joanna K. Brown, Past President  
 Tim Cain, Vice President  
 At ESPR 2022

Right: Andrés García Bayce, WFPI President  
 – 2022 – 2023



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## Council of Directors, 2022-2023

- ❖ President: Andrés García Bayce (SLARP)
- ❖ Vice-President: Timothy Cain (AOSPR)
- ❖ Past President: Joanna Kasznia-Brown (ESPR)
- ❖ Secretary: Rick Van Rijn (ESPR)
- ❖ Vice-Secretary: Kushaljit Sodhi (AOSPR)
- ❖ Treasurer: Tatiana Fazecas (SLARP)
- ❖ Vice-Treasurer: John Chris Rodrigues (AfSPI)
- ❖ 5<sup>th</sup> Society Representative: Jennifer Nicholas (SPR)



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## Society Representatives 2022 -23

- ❖ AfSPI: Jaishree Naidoo and John Chris Rodrigues
- ❖ AOSPR: Ashley Robinson, Kushaljit Singh Sodhi
- ❖ ESPR: Martin Stenzel, Rutger Jan Nievelstein
- ❖ SLARP: Pilar Dies, Alexandra Monteiro
- ❖ SPR: Taylor Chung, Chris Cassady



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# Advisory Committee

This committee was formed to provide WFPI leaders a continuing role in the work of the Federation. The original members are the Past Presidents.

Ines Boechat	SPR
Veronica Donoghue	ESPR
Gloria Soto	SLARP
Wendy Lam	AOSPR
Omolola Atalabi	AfSPI
Dorothy Bulas	SPR
Joanna K. Brown	ESPR



# In Appreciation to Outgoing President

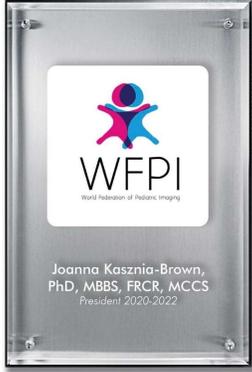


Left: Joanna K. Brown, WFPI President – 2020 – 2022

Right:  
 Dorothy Bulas, Past President  
 Ines Boechat, Founding President  
 Andres Garcia Bayce, Vice President  
 Joanna K. Brown, President  
 at IPR 2021



# In Appreciation to Outgoing President



For extraordinary leadership during the Covid Pandemic



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Founding Societies



# Thank you, Jennifer

Regional Societies



Founding Societies

Thanks to the SPR for infrastructure support (Accounting, Financial, IT) which reduces WFPI operating costs.

Thanks to the William Shiels Foundation at Nationwide Children's for support for the Observership Program.



Thank you  
To the supporting societies, members and staff for  
continuing support

