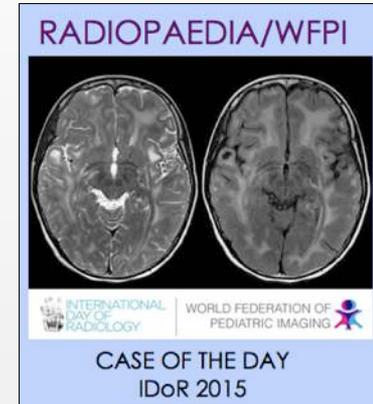
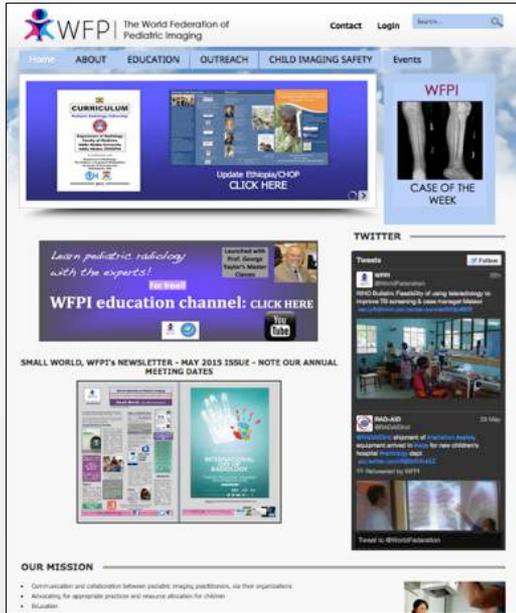


# Sanjay Prabhu, MD, Webmaster



## Regional Societies



## Founding Societies

# WEBSITE

The screenshot shows the WFPI website with a navigation menu (Home, ABOUT, EDUCATION, OUTREACH, CHILD IMAGING SAFETY) and a search bar. The main content area features a 'CHILDHOOD TUBERCULOSIS' banner, 'WFPI's TB CORNER' with a 'CLICK HERE' link, and a 'CASE OF THE MONTH' section. Below these are a newsletter preview for 'SEPTEMBER 2015', a 'WFPI education channel: CLICK HERE' banner, and a 'NEWLY ADDED TO OUR ONLINE VIDEO LIBRARY' section featuring a video on 'Approach to Neonatal Plain Radiographs'. The 'TB Corner' section includes a photo of children, a 'CLICK HERE' link, and a preview of an article titled 'EVIDENCE OF ENDOBRONCHOSCOPY'. The bottom section promotes the 'INTERNATIONAL DAY OF RADIOLOGY' on November 8th, 2015, with a fireworks image and a 'CLICK HERE' link.

WFPI The World Federation of Pediatric Imaging

Contact Login Search...

Home ABOUT EDUCATION OUTREACH CHILD IMAGING SAFETY

**CHILDHOOD TUBERCULOSIS**

**WFPI's TB CORNER**

Open access educational literature & tools. A hub for Childhood Imaging experts for action. [CLICK HERE](#)

WFPI

CASE OF THE MONTH

Small World - WFPI's Newsletter

SEPTEMBER 2015

Learn pediatric radiology with the experts!

Launched with Prof. George Taylor's Master Classes

**WFPI education channel: CLICK HERE**

NEWLY ADDED TO OUR ONLINE VIDEO LIBRARY:

- Watch
- Stream
- Clip
- Share

"Approach to Neonatal Plain Radiographs" - Prof. George Taylor (algorithm: Rita Toole) &...

Our first Spanish language video now on YouTube! Dr. Goya Enriquez from Vall d'Hebron Children's Hospital in Barcelona describes how a pediatric radiology department acquires a good chest radiograph in a young child. Residents and junior radiographers may find this video particularly useful and it may also help prepare patients and their family adequately prior to acquiring a radiograph.

Image © George Taylor

**EVIDENCE OF ENDOBRONCHOSCOPY**

Includes articles published for TB Corner. **JUST ISSUED - Nov 2015** - as part of IDoR celebrations

**INTERNATIONAL DAY OF RADIOLOGY**

November 8th, 2015

The International Day of Radiology, organized by the European Society of Radiology, the American College of Radiology and the Radiologic Society of North America, is celebrated yearly on November 8th.

2015's theme: pediatric imaging

We loved sharing the pediatric imaging celebrations with you!

World Federation of Pediatric Imaging  
United to address the challenges of global pediatric imaging training and the delivery of services. [www.wfpim.org](http://www.wfpim.org)

**INTERNATIONAL DAY OF RADIOLOGY**

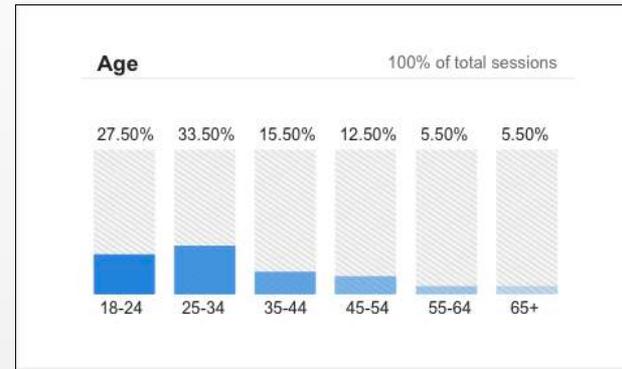
November 8th, 2015

Our thanks to all those who contributed & took part #IDoR2015 #PedsRad

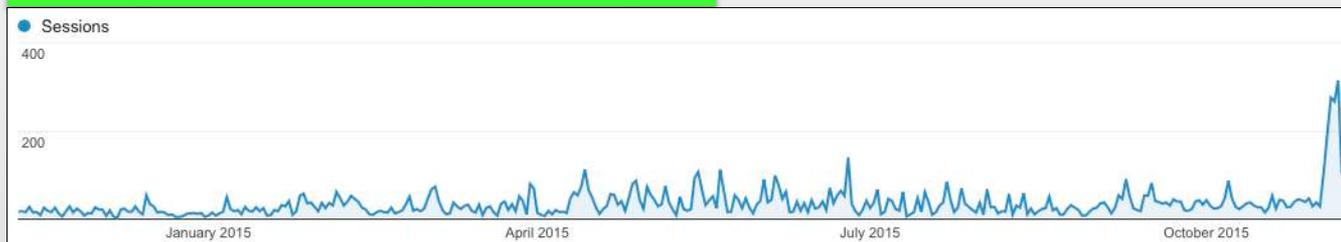
# Traffic for one year: **Nov 10 2014 – Nov 10 2015**



- 10 000 users
- 28 500 page views
- 13 000 sessions
- Viewed from 159 countries
- Desktop 78%, mobile 14%, tablet 8%



Since Jan 1st 2014 - present day



IDoR 2015

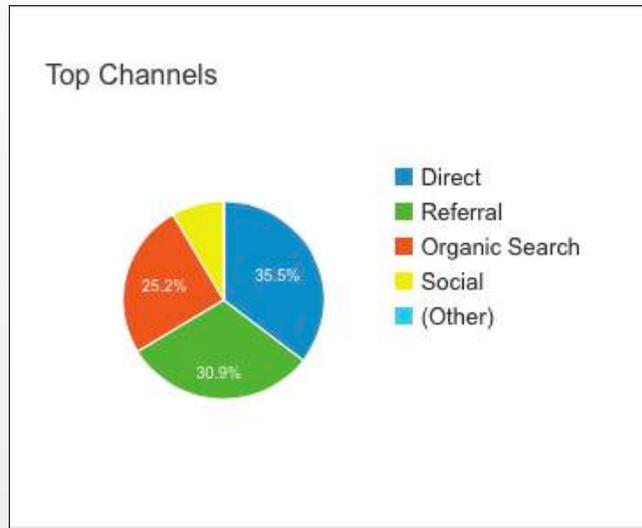


Regional Societies



Founding Societies

# Referrals for one year: Nov 2014 – Nov 2015



927 hits (7%) from Facebook  
160 hits (1%) from Twitter

## From member organizations and partners, in order of n° of hits generated

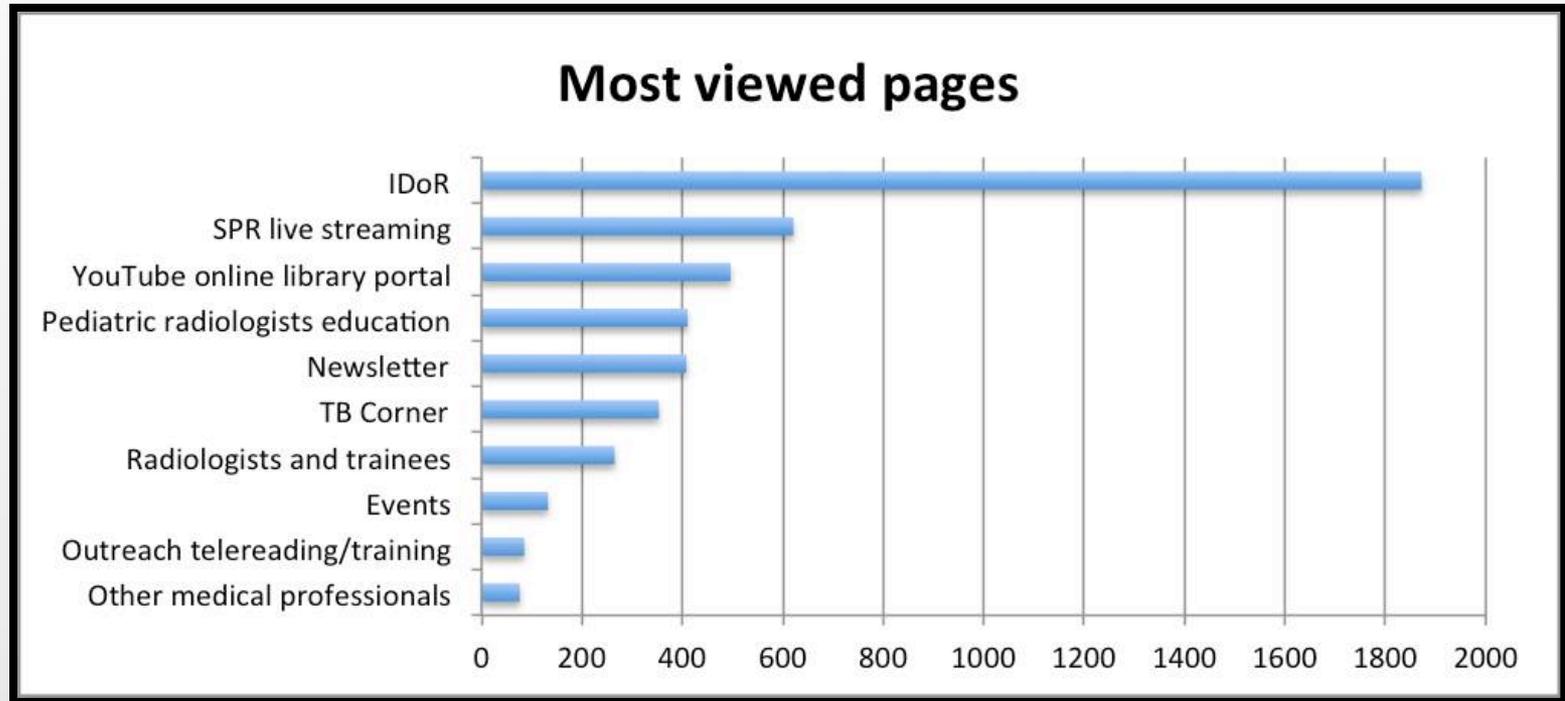
SLARP: 200	AOSPR: 39
ESPR: 172	BSPR: 16
radiologyeducation: 213	UCLA: 17
SPR: 115	SFIPP: 8
FAARDIT: 80	ACR: 7
GPR: 66	Image Gently: 9
Pediatricradiology: 176	RSNA: 2
ISR: 44	<b>Radiopaedia: 126</b>
<b>IDoR: 173</b>	

### Regional Societies



### Founding Societies

# Page views for one year: **Nov 10 2014 – Nov 10 2015**



## Regional Societies

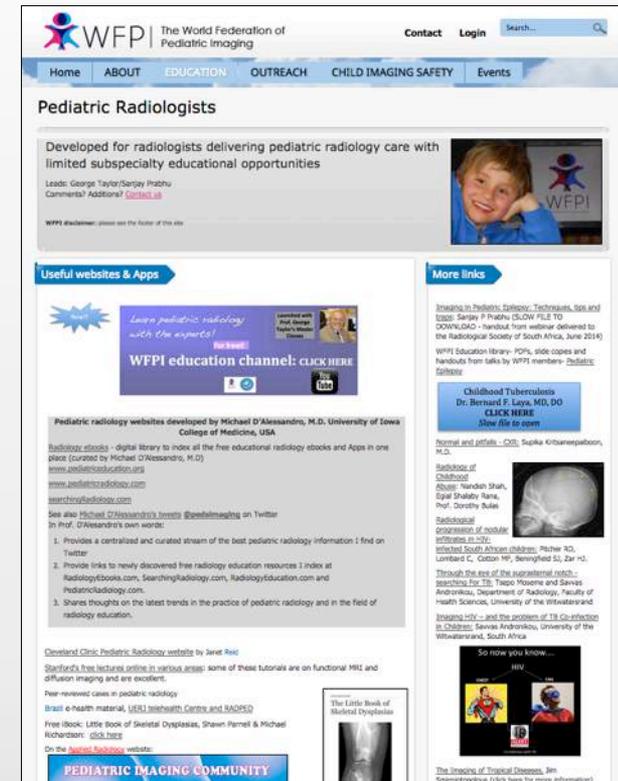
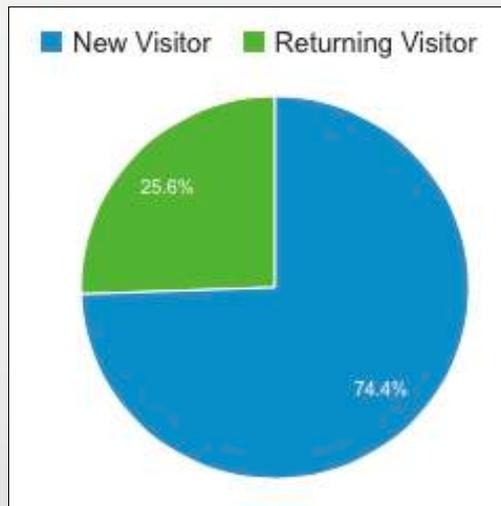


## Founding Societies

# Zoom on education pages, website



- Pediatric radiologist and trainee pages: quite popular
- Other health professionals: less traffic
- More structure & regular updates needed to improve return rate



## Regional Societies

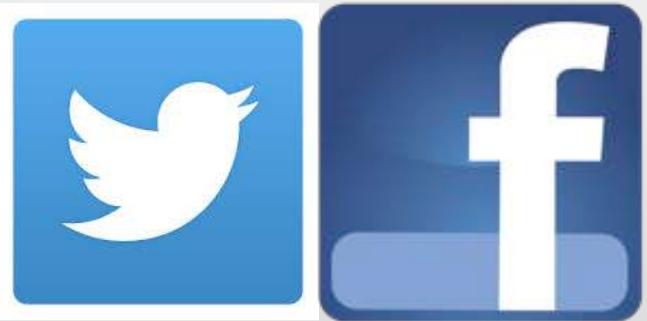


## Founding Societies



# Social media

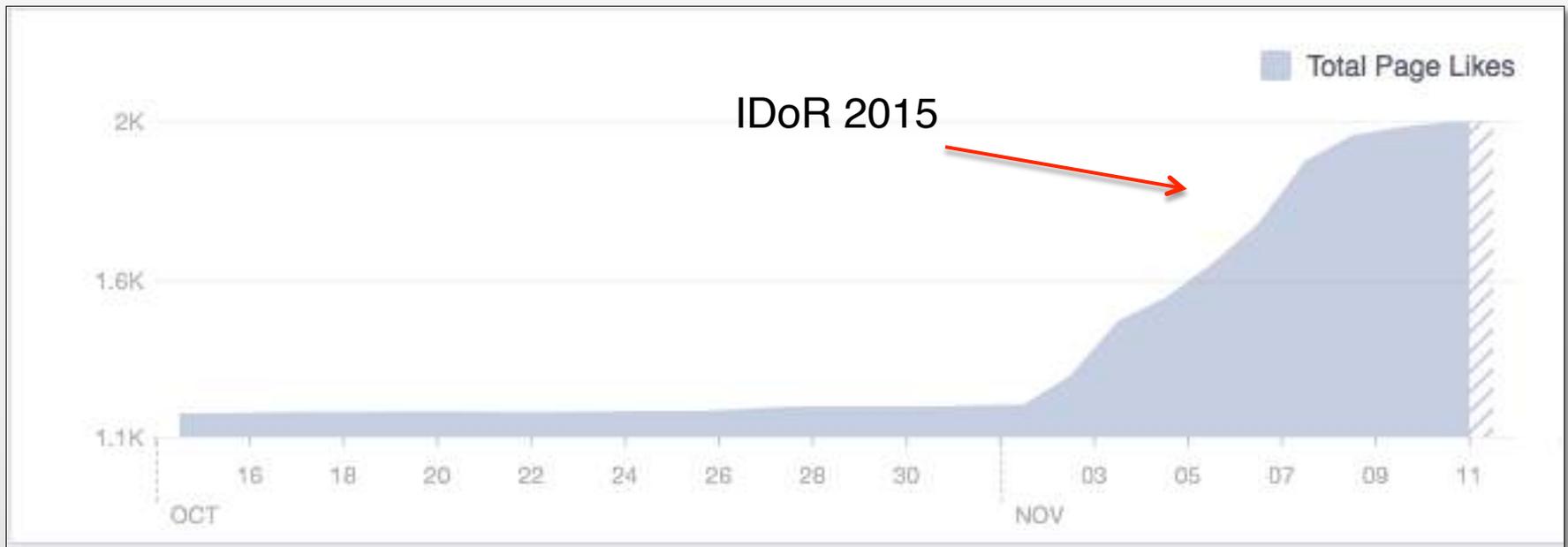
Sanjay Prabhu and Micheal Breen



# Facebook followers Jan 1 2014 – Nov 3 2015



- From c.100 countries



Regional Societies

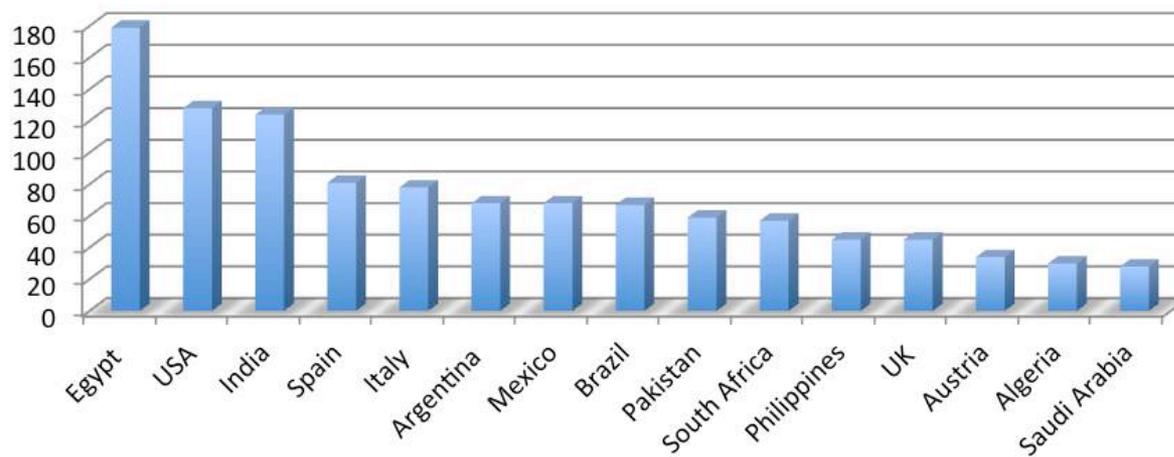


▶ Founding Societies

# Facebook reach



## Top 15 countries following Nov 11th 2015



China missing....

### Regional Societies



### Founding Societies

# Facebook most popular posts – one year **Nov 2014 – Nov 2015**



## Facebook **Popular posts**

### **IDoR celebrations – videos/photos, the Global Wave, cases**

Online educational cases

Online videos for WFPI library

IDOR pediatric imaging book: The Gentle Way

Outreach reports

Article: patient consultation boosts pediatric US experience

PedsMRI app- Hospital for Sick Kids, Toronto

Tele-reading analysis/info

WFPI meetings

Skeletal dysplasias ebook

Sonoworld videos

Journal of American Osteopathic Radiology- pediatric issue

3D printing talk - Sanjay Prabhu

European Diagnostic Reference Levels for Paediatric Imaging Workshop

AFROSAFE

#### Regional Societies



#### Founding Societies

# Twitter: November 2015



- 140 followers – 30+ post IDoR
- Common to have less followers on Twitter than on Facebook
- Nonetheless looking for a rise
- Now feeding through WFPI's website home page: sets the tone

## Regional Societies



## Founding Societies

*Learn pediatric radiology  
with the experts!*

Launched with  
Prof. George  
Taylor's Master  
Classes



**For free!!**

**WFPI education channel: [CLICK HERE](#)**



## Online video library

A joint WFPI-SPR initiative

Aims to provide ready access to quality  
pediatric radiology education to everyone  
involved in the care of children around the  
world.

**Multi-setting, multi-topic, internationally steered**



Founding Societies



the Society for  
Pediatric Radiology



# Zoom



- 6400 + views of 12 videos in 10 months
- Some videos (4) also directly embedded into Facebook
- Most viewed: Introduction to Pediatric Chest Radiograph: 1942 views
- Cross-regional steering committee



## Regional Societies



## Founding Societies

# Future directions



- Curriculum-based video creation
- Worldwide participation
- Plan to go multilingual
- Participation from member organizations
- Committee/peer review of talks for content relevance

## Regional Societies



## Founding Societies

# Education: Online cases <sup>(1)</sup>



**WFPI**  
**Case of the Week**  
*on instagram*  
**CLICK HERE**

Access channels: Instagram, Twitter, Facebook, Figure1, website



Regional Societies



▶ Founding Societies

# Education: Case of the Week <sup>(2)</sup>



Date	Reach	Engagement	Likes	Case description
1 February 14	1500	343	35	20 mth male with development pbms, brain
8 February 15	1200	356	33	Fever and lump on head
15 February 15	367	64	10	Eponymous fracture
22 February 15	536	44	24	Lung
1 March 15	752	144	11	Cheek swelling
8 March 15	584	126	8	hypogonadotropic hypogonadism and hearing loss?
11 March 15	585	105	22	Newborn, bilious vomiting
15 March 15	727	149	13	Abdominal mass
22 March 15	141	19	4	Absent septum pellucidum
30 March 15	420	103	4	Knee pain after injury
30 March 15 cont.	1100	91	26	MRI for knee injury
6 April 2015	1200	221	14	Newborn, chest mass on prenatal US
13 April 2015	1100	212	20	10 yr old abnormal movements
21 April 2015	119	22	3	Young teenager with deletion of Chromosome 9
26 April 2015	2300	682	37	8 yr old male with history of longstanding "asthma"
30 April 2015	1300	212	30	3 yr old female abdominal distention and palpable..
4 May 2015	413	103	11	2 year old infant fell to hard surface
12 May 2015	461	101	11	What abnormality is seen on this young child's CXR?
18 May 2015	759	73	14	Radiographs knees 10 mth old child
<b>TOTAL</b>	<b>15564</b>	<b>3170</b>	<b>330</b>	

## Regional Societies



## Founding Societies

# Education: Collaboration with Radiopaedia for IDoR/Case of the Week



## Pages to Watch

Compare the performance of your Page and posts with similar Pages on Facebook.

Add Pages

Likes, Comments & Shares

Page	Total Page Likes	From last week	Posts This Week	Engagement This Week
1  <b>Radiopaedia.org</b>	340.2K 	▲ 0.3%	13	11K 
2  <b>RadioGraphics</b>	12.4K 	▲ 0.7%	3	44 
3  <b>The Society for Pediatr...</b>	2.1K 	▲ 0.5%	10	
4  <b>American Society of Ne...</b>	1.7K 	0%	0	

RSNA: 51k  
MyESR: 156k  
AuntMinnie: 7.58k




**Radiopaedia.org**  
@Radiopaedia

TWEETS 4,187 FOLLOWING 516 FOLLOWERS 13.2K FAVOURITES 1,456

Tweets Tweets & replies Photos & videos

Who to follow · Refresh · View all

Jason Itri @JasonItriMD

Radiopaedia is...  
**HUGE!**

What happened during the birth of this term baby?

ANSWER: <http://goo.gl/UukLf2>

Case courtesy of Dr Derrick Chansongpen. ... [See More](#)



Like Comment Share

822 Likes

Top Comments ▾

176 shares

Write a comment...

**Radiopaedia.org** International Day of Radiology is almost here! How will you help celebrate pediatric imaging this November 8? <http://www.internationaldayofradiology.com/>

**2015 SUPPORTED** **International Day Of Radiology** :.  
November 8 is the International Day of Radiology and this year, marking the 120th anniversary of Wilhelm...  
[INTERNATIONALDAYOFRADIOLOGY.COM](http://INTERNATIONALDAYOFRADIOLOGY.COM)

Like · Reply · 8 · 2 November at 13:26

**Matteo Florentin** Right clavicle fracture  
Like · Reply · 5 · 2 November at 13:29

[View more comments](#)

2 of 90

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ENCYCLOPEDIA (Browse by topic or specialty) + Add Article (Default by topic or specialty) PATIENT CASES (Default by topic or specialty) + Add Case ? Quiz Mode

Search

### Pediatric Imaging Cases - WFPI - IDOR 2015

Playlist contributed by: Dr Andrew Dixon

Show case titles

Pediatric Imaging is the theme for the 2015 International Day of Radiology on November 8. To celebrate, the World Federation of Pediatric Imaging (WFPI) asked its members to share a selection of great cases with the world. You can see all 23 of the submitted cases below. Radiopaedia would like to thank WFPI for this fantastic initiative and for supporting IDOR 2015.

Playlist Information:

ID: 4415

Systems: Breast, Cardiac, Central Nervous System, Gastrointestinal, Gynaecology, Haematology, Head & Neck, Musculoskeletal, Paediatrics, Urogenital, Vascular

Visibility: public

“Radiopaedia's Playlists are changing how I teach my residents”

Find out more

A grid of 9 small image thumbnails, each labeled 'Case 1' through 'Case 9'. Case 1 is a sagittal MRI of the head. Case 2 is a chest X-ray. Case 3 is a lateral X-ray of the spine. Case 4 is an ultrasound of the abdomen. Case 5 is an axial CT scan of the head. Case 6 is a 3D reconstruction of a vascular structure. Case 7 is a cross-sectional CT scan of the abdomen. Case 8 is an X-ray of the lower legs. Case 9 is a lateral X-ray of the spine.

# Radiopaedia/WFPI, #IDOR 2015: the result



**Dr Andrew Dixon**

@DrAndrewDixon

10 Nov

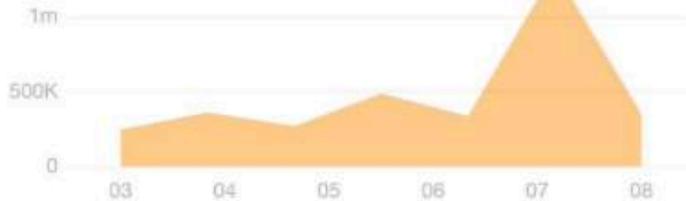
Successful #IDoR2015 week on @Radiopaedia Facebook page. 2 million people reached! Thanks @WorldFederation. #FOAMrad

**2,102,989**

Total Reach

▲ 50.2%

Organic Paid



Tweet



**myESR**

@myESR

Top Influencers of #IDoR2015:  
@radiopaedia @aetrradiologia  
@myesr @gehealthcare  
@worldfederation [symplur.com/healthcare-has...](http://symplur.com/healthcare-has...) via @symplur

Regional Societies



Founding Societies

# Standard case of the week: details



- Why bother? Demand for case based learning, greater retention with case-based approaches & decreasing attention spans
- Why social media? Greater reach, ready-made distribution tools, mostly free
- Challenges and opportunities
- Future directions- case compilations, e-books, regular cases
- Link cases to educational videos
- Congress, other events – seize the opportunities

## Regional Societies



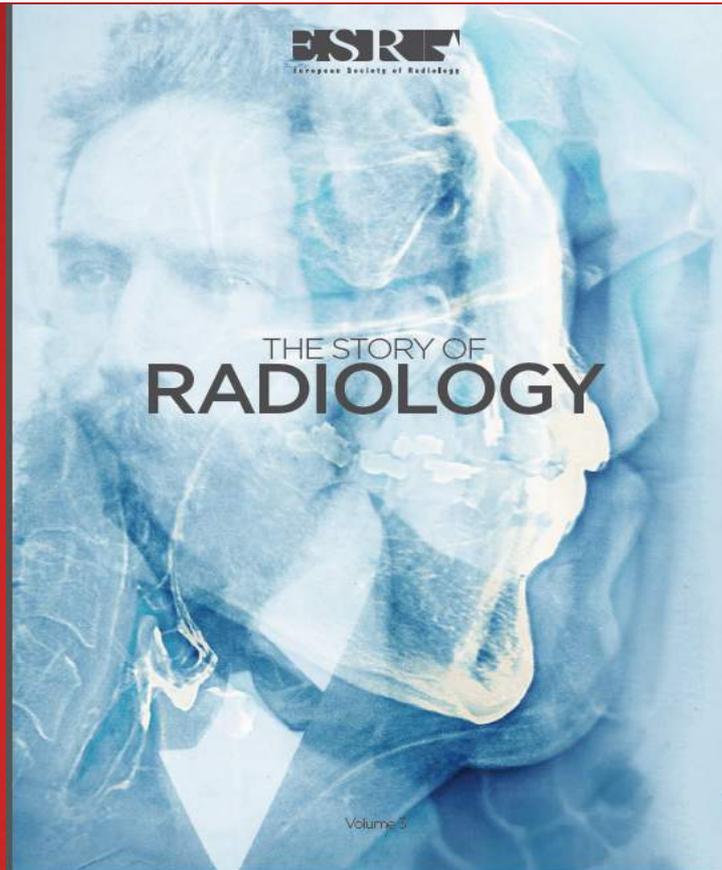
## Founding Societies



# INTERNATIONAL DAY OF RADIOLOGY

AN INITIATIVE OF THE ESR, ACR AND RSNA

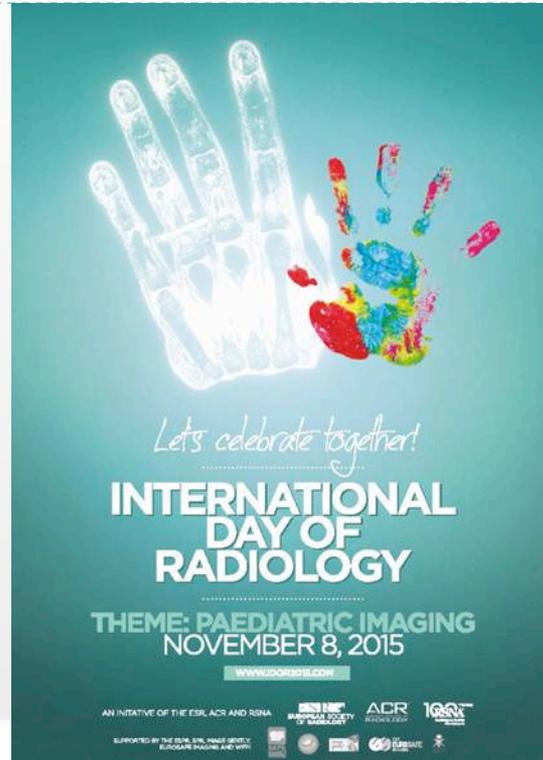
Supported by the ESPR, SPR & WFPI



# International Day of Radiology November 8, 2015



## The IDoR Poster



# International Day of Radiology

## November 8, 2015



### Participating Societies

16 international societies (AOSR, CIR, EFNA, EFRS, ELF, EPF, ERS, ESR, ESTRO, ISMRM, ISHRAD, ISR, RSNA, SAFE, WFPI, WMIS)

11 African societies (Algeria, Congo, Egypt, Kenya, Nigeria, RSSA, SPIN – Society of Pediatric Imaging in Nigeria, SRANF – representing 20 African countries, Tanzania, Tunisia, Uganda)

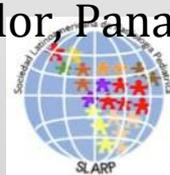
14 Asian societies (China, Hong Kong, India, Indonesia, Iran, Iraq, Japan, Korea, Lebanon, Malaysia, Philippines, Saudi Arabia, Sri Lanka, Vietnam)

65 European societies (national, subspecialty & allied sciences)

24 North American societies (incl. Canada & Mexico)

2 Oceanian societies (ADIA – Australian Diagnostic Imaging Association, RANZCR)

14 South American societies (Argentina, Brazil (CBR, SPR), Bolivia, Chile, Colombia, Costa Rica, Cuba, Ecuador, Panama, Peru, Uruguay, FAARDIT, SLARP)



International Day of Radiology  
November 8, 2015



**The Gentle Way: the Art of Paediatric Imaging**

**ESRF**  
EUROPEAN SOCIETY  
OF RADIOLOGY



**THE GENTLE  
WAY**  
THE ART OF PAEDIATRIC IMAGING

TABLE OF  
CONTENTS

4	INTRODUCTION
7	CHAPTER 1: AN INTRODUCTION TO PAEDIATRIC IMAGING
53	CHAPTER 2: PAEDIATRIC IMAGING TECHNIQUES
101	CHAPTER 3: IMAGING THE BRAIN AND SPINE
121	CHAPTER 4: IMAGING THE LUNGS AND HEART
149	CHAPTER 5: IMAGING THE ABDOMEN
169	CHAPTER 6: PAEDIATRIC CANCER IMAGING
185	CHAPTER 7: MUSCULOSKELETAL IMAGING
197	CHAPTER 8: PERINATAL IMAGING
209	THE FUTURE OF PAEDIATRIC RADIOLOGY RESEARCH
215	INTERVIEWS
235	ABOUT THE AUTHORS

# International Day of Radiology November 8, 2015



## The Gentle Way: the Art of Paediatric Imaging

(in cooperation with ESPR, SPR, WFPI, EuroSafe Imaging, Image Gently, ESTRO)

Executive Editors: Owen Arthurs, Katharine Halliday  
47 Authors

The book was published as a downloadable PDF at  
[IDOR2015.com/publications](http://IDOR2015.com/publications).

From October 6, when the book was published, to November 12, the webpage was visited 5,711 times

Regional Societies



Founding Societies

# International Day of Radiology

## November 8, 2015

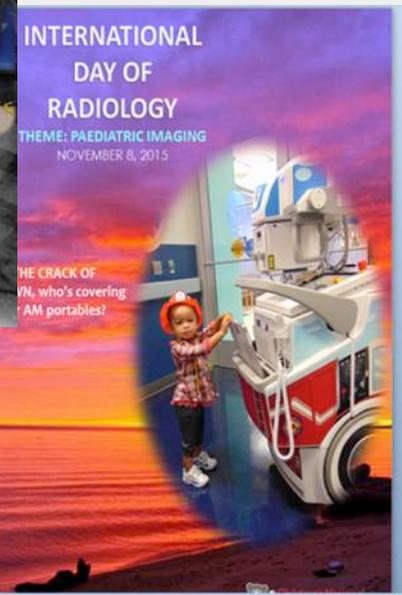
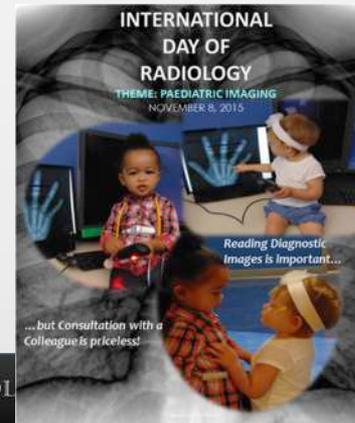


### Events & Activities worldwide:

Numerous events around the world. - notified of events in the following **42 countries:**

Algeria, Argentina, Australia, Austria, Brazil, Canada, Chile, Costa Rica, Croatia, Colombia, Czech Republic, Egypt, France, Germany, India, Indonesia, Ireland, Israel, Italy, Kenya, Kuwait, Lebanon, Luxembourg, Netherlands, Nigeria, Palestine, Philippines, Portugal, Romania, Saudi Arabia, Serbia, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Tunisia, Uganda, United Kingdom, United States.

- Open Days / Symposia
- Series of Lectures/ Conferences
- Workshops/ Seminars
- Webinars
- Poster /video Competition
- Radiopedia

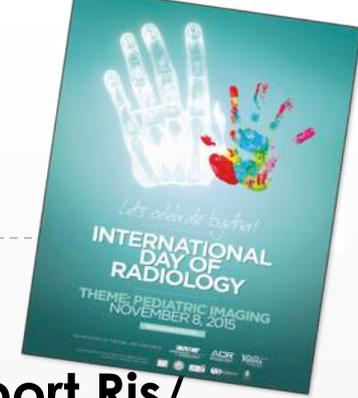


#### Regional Societies



#### Founding Societies

# Celebrations Globally



- ▶ Alliance members, AAP
- ▶ WHO – **Tool for Radiation Risk Communication To Support Ris/Benefit Dialogue in Pediatric Imaging**
- ▶ **ARDMS – Promoting Pediatric US exam**
- ▶ **ACR/Radiology/ESR ads, radio interviews**
- ▶ **Internationally**
  - ▶ RAD AID Meeting Nov 7
  - ▶ Ped Rad meeting in Uganda Nov 7,9
  - ▶ Journal in South Africa
- ▶ **Grass roots – proclamations, grand rounds, tech week**

## Regional Societies



## ▶ Founding Societies

# International Day of Radiology November 8, 2015



## Social media activities:

### IDoR Facebook page May – November 2015

promotion of WFPI photo/video competitions, IDoR events, paediatric imaging book, plus sharing fans' posts and other organisations' activities

**40** posts

**11,551** likes in total

**1,863** shares

### Number of Fans:

November 9, 2012: 1,545

November 9, 2013: 7,924

November 9, 2014: 11,891

November 9, 2015: **14,271** (+2,380 Likes)

#### Regional Societies



#### Founding Societies

# International Day of Radiology November 8, 2015



## Social media activities: Twitter

Massive increase in support for IDoR on Twitter  
3,980 tweets using the hashtag #IDoR2015 compared to just 1,825 last year

These tweets appeared in Twitter users' feeds **7,959,001** times  
(source: [Symplur.com](http://Symplur.com))

7,959,001 Impressions

3,980 Tweets

1,433 Participants

5 Avg Tweets/Hour

3 Avg Tweets/Participant

# International Day of Radiology November 8, 2015



## Social media activities: Thunderclap Campaign

Thunderclap is a tool for amplifying a message on social media. By supporting the Thunderclap, users agreed to share the same message at the same time as everyone else on their Facebook, Twitter or Tumblr pages, giving the message much more prominence and priority on social media feeds than individual posts.

The campaign was promoted on social media platforms by all three organising societies.

### Regional Societies



### Founding Societies

# International Day of Radiology November 8, 2015



## Social media activities:

### IDoR Thunderclap Campaign

- The Thunderclap message was released on November 8, 13:00 CET by 252 supporters to a combined audience of **643,294** people.

**“Radiology saves children's lives! The  
International Day of Radiology celebrates  
paediatric imaging Nov 8 #IDoR2015**

**<http://thndr.me/hIUvrB>”**

SUPPORTERS

**252** of **100**

252% of goal supported

SOCIAL REACH

**643,294**

People

TIME LEFT

**Complete**

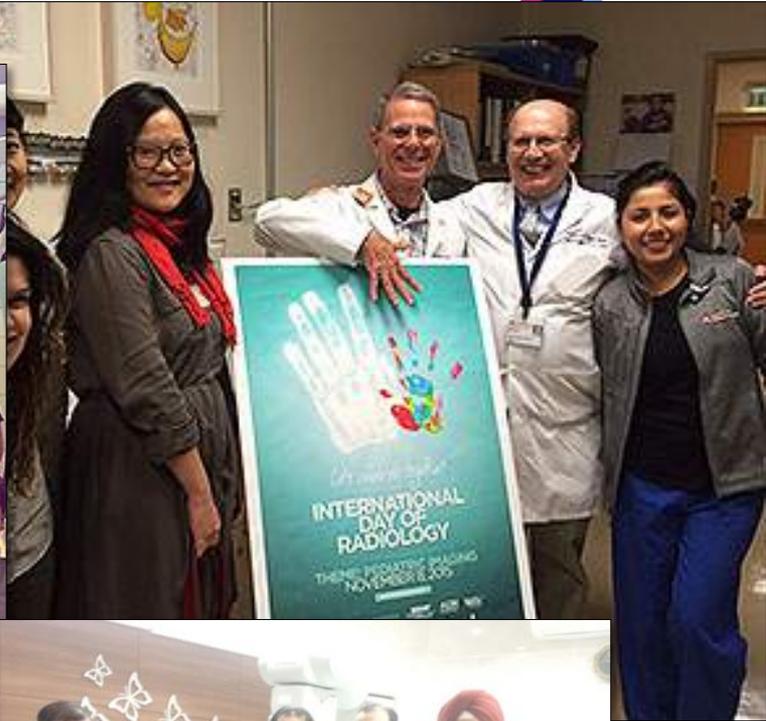
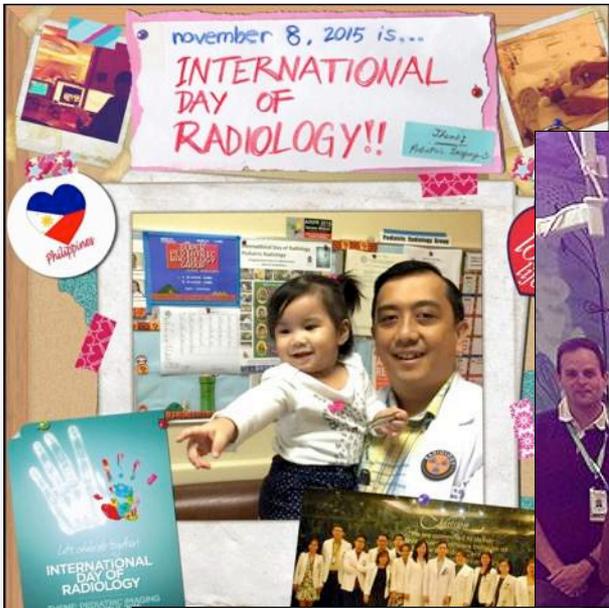
Ends Nov 08, 1:00 PM CET



myESR

EMBED





# Around the world in 24 hours

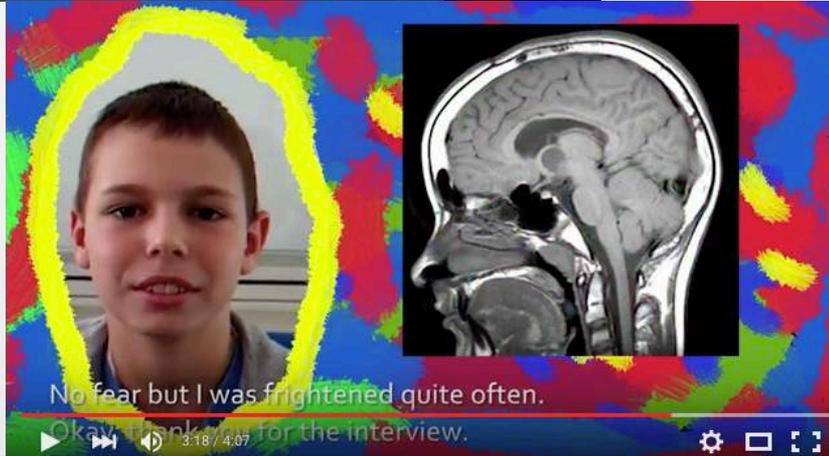


- ▶ Over 70 photos submitted!  
Australia, Philippines, India, Kuwait, Israel, Romania, Czech Republic, Italy, Sweden, Luxembourg, Austria, Germany, Serbia, Switzerland, France, Netherlands, Spain, England, Ireland, Portugal, South Africa, Nigeria, Argentina, Costa Rica, Chile, Canada, USA.
- ▶ THANK YOU to Prof. Erich Sorantin, Mr. Alex Kolli and the team in Graz, Austria, for this fantastic idea and all the webwork.

## Regional Societies



## Founding Societies



What does an ideal pediatric radiology fellowship look like? (Toronto Hospital for Sick Kids)

International Day of Radiology 2015! Celebrate Pediatric Radiology!  
A video by the pediatric radiology fellows at The Hospital for Sick Children (Sick Kids), Toronto...  
2015-08-28

Who is a paediatric radiologist? ( University Hospital Motol, Czech Republic)

Who is a paediatric radiologist?  
Have you ever wondered what makes a paediatric radiologist different from a general radiologist?  
2015-08-28

My daughter, why I became a pediatric radiologist (Dr. Ray Somcio, Texas Children's)

International Day of Radiology - My Daughter  
International Day of Radiology is on November 8, 2015, and this is Dr. Ray Somcio's Pediatric Radiology. Let's sharing the story of my daughter, my inspiration for...  
2015-08-28

What our young patients think of pediatric radiology (Prof. Erich Sorantin, Graz, Austria)

IDoR\_video\_content\_pediatric\_radiology\_graz\_austria  
2015-08-28

Radiology of NEC in neonates (Charlotte Maxeke Johannesburg Academic Hospital, South Africa).

Radiology of NEC in neonates  
International Day of Radiology is on November 8, 2015, and this is Charlotte Maxeke Johannesburg Academic Hospital in South Africa. This video for IDOR International Day of Radiology.  
2015-08-28

A video celebrating IDOR 2015 and Pediatric Imaging from Paco Galvez and the Asociación Española de Técnicos en Radiología (AETR). Look out for the horse!!

IDOR SPAIN AETR  
2015-08-28

# Global Videos: [www.wfpiweb.org](http://www.wfpiweb.org)!

Regional Societies

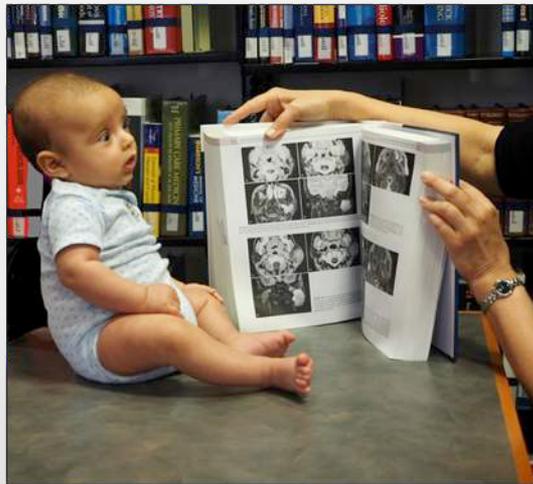


Founding Societies

# Prizes



- ▶ The award for attending video with most likes (296 likes)
  - ▶ Prof. Erich Sorantin University Hospital Graz - Austria.
- ▶ The award for the trainee video with most likes (205 likes)
  - ▶ Ray Somcio MD, Texas Children's Hospital, Texas,
- ▶ The award for the most liked photograph
  - ▶ Ronald Cohen from Oakland Children's Hospital

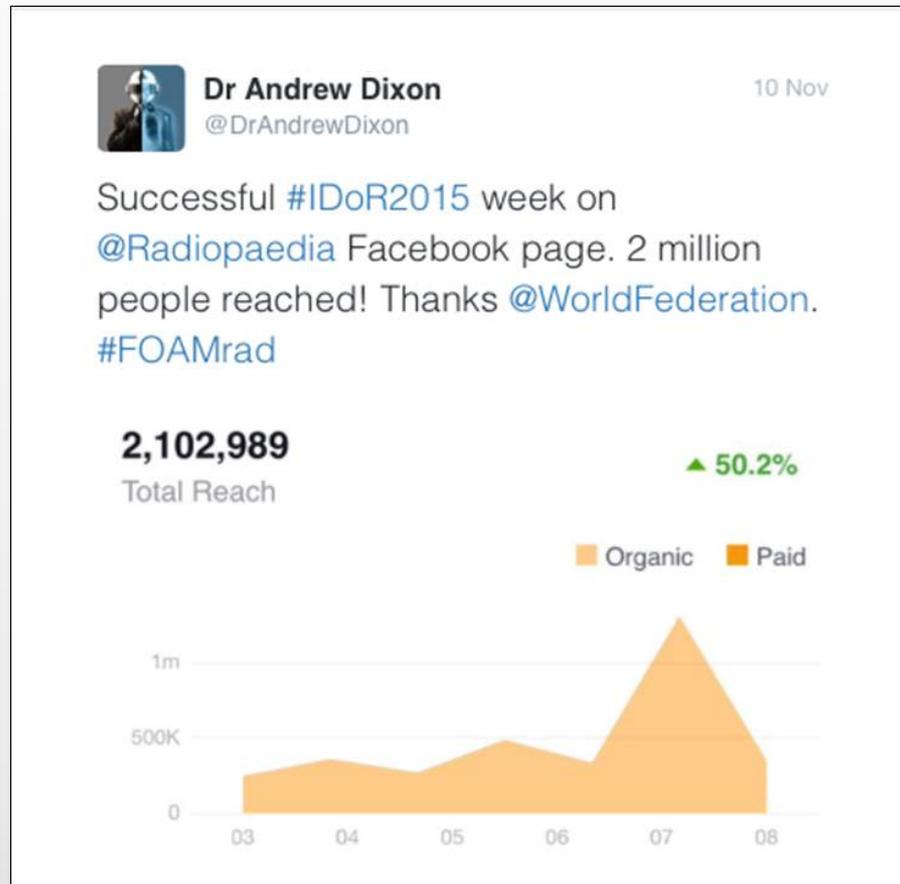


## Regional Societies



## Founding Societies

# Radiopaedia



## Regional Societies



## Founding Societies

Thank you!



Regional Societies



Founding Societies

# TB Group

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- ▶ A conglomerate of paediatric radiologists from around the world who are experts in childhood TB imaging
- ▶ Create an impact on Childhood TB diagnosis using radiology in low resource areas

---

## Regional Societies



## ▶ Founding Societies

# TB Group

---



- ▶ Formation date: **May 18, 2013**
- ▶ 56<sup>th</sup> SPR meeting, San Antonio, Texas, USA
- ▶ **Attendees:**
  - ▶ Maria Ines Boechat (Brazil / USA; WFPI president)
  - ▶ Savvas Andronikou (South Africa; TB Group Leader)
  - ▶ Ron Cohen (USA; WFPI outreach to Zimbabwe and Zambia)
  - ▶ Omolola Atalabi (Nigeria)
  - ▶ Bernie Laya (Phillipines)

---

## Regional Societies



## ▶ Founding Societies

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# TB Group: Proposed Tasks

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1. List of radiologists interested / involved in TB imaging
2. Communicate with proposed TB partners
3. Introduce to the international TB movements through communications (WHO, Gates Foundation, others, to generate financial and other support)
4. Enhanced educational activities

Lectures, videos on TB imaging

Link with ICRE of ISR

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## Regional Societies



## Founding Societies

# TB Group: Proposed Tasks

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5. To initiate a 'TB corner' in the newsletter of the WFPI
6. Outreach reporting: select new volunteer reporting projects mainly for TB and HIV clinics
7. Promote standardized reporting of suspected cases of TB (use of reporting template)

**\* Most of these tasks had been accomplished**

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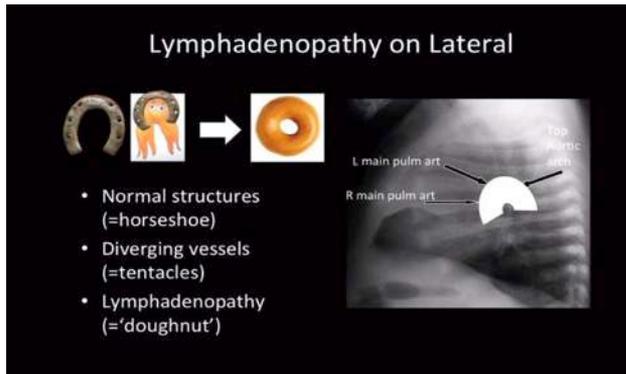
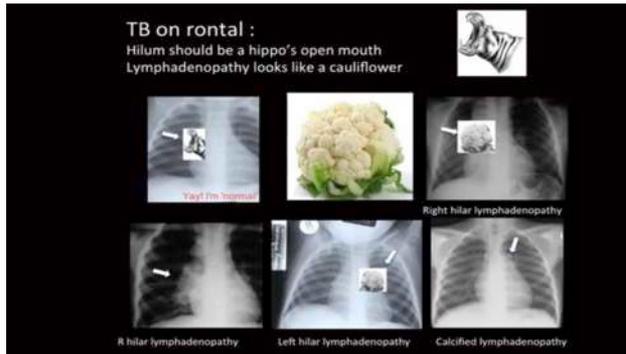
Regional Societies



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# TB Group: Educational Tools



Savvas' 7-min snippets



\* Link to important TB literature

Regional Societies



Founding Societies



# TB Group: September 2015



Create educational literature and short videos for wide online circulation

Collate existing literature and learning material and host it on TB Corner

CHILDHOOD  
TB DIAGNOSIS

Initiate and participate in childhood TB research

CONTACT US



TB GROUP HOTLINE

Regional Societies



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# Bernard F. Laya (Lead)



- ▶ Mariaem Andres (Philippines)
- ▶ Savvas Andronikou (South Africa)
- ▶ Eric Chong (Panama)
- ▶ Nathan Concepcion (Philippines)
- ▶ Rupesh Gautam (Nepal)
- ▶ Hamzaini Abdul Hamid (Malaysia)
- ▶ In-One Kim (Korea)
- ▶ Supika Kritsanepaiboon (Thailand)
- ▶ Henrique Lederman (Brazil)
- ▶ Gladys Mwangi (Kenya)
- ▶ Jaishree Naidoo (South Africa)
- ▶ Bishnu Sigdel (Nepal)
- ▶ Kushaljit Singh Sodhi (India)
- ▶ Jacqueline Austine Uy (Philippines)
- ▶ Roy Vizcarra (Philippines)
- ▶ Lavinia Wesley (Panama)

## Regional Societies



## ▶ Founding Societies

# TB Group: Online Articles 2015

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- ▶ Short and practical review articles
- ▶ Important topics related to TB
- ▶ Authored and peer-reviewed by TB Group members
- ▶ Free and online
- ▶ Building block for a book

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## Regional Societies



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# TB Group: Online Articles 2015



WFPI TB Corner September 2015

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## DRUG RESISTANT TUBERCULOSIS

### Radiologic Imaging Manifestations

Bernard F. Laya, Ma. Carmela L. Sto. Domingo, Xanthé Marie Javier and Marion Sanchez  
St. Luke's Medical Center, Philippines

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**Abstract**

Tuberculosis (TB) remains a global health problem despite the fact that the burden is slowly declining each year and millions of lives are saved through effective diagnosis and treatment. Still, the death toll from the preventable disease is still unacceptably high. Development of drug resistant TB strains is now adding to the complexity in managing this disease. The aim of this review article is to highlight the importance and impact of drug resistant TB and present the typical imaging manifestations which can be helpful in its early diagnosis.

**The Burden of Drug Resistant Tuberculosis**

Tuberculosis (TB) is considered a global health crisis with a wide epidemiological variability between the different geographical areas. About two billion people around the world have come into contact with mycobacterium TB and acquired the infection, approximately 85% of cases is in Asian and African continents (1). Drug resistant TB (DR-TB) has emerged as a new face of the disease, causing an impact in the epidemiology, and posing a major threat in TB control. It results from inappropriate drug treatment or patient non-adherence to treatment. Resistance may be defined as either primary or secondary. "Primary" or "intrinsic" resistance is identified in an individual who has never been treated with anti-TB therapy or who had undergone such therapy for less than a month. DR-TB is referred to as "secondary" or "acquired" when resistance follows the failure of previous treatment of TB (2-3). Previously treated TB patients have a significantly higher risk of DR-TB compared with new cases (2, 4).

Multidrug-resistant TB (MDR-TB) are TB strains which are resistant to at least isoniazid and rifampicin. Globally, 5% of TB cases are estimated to have MDR-TB. In 2013, there are about 480,000 cases of MDR-TB among the world's estimated 9 million incident TB cases. An estimated 210,000 people died from MDR-TB, which is relatively high compared to the total number of incident cases. About 3.5 % of new TB cases and 20.5% of previously treated cases have MDR-TB. Of all the diagnosed cases of MDR-TB, an estimated 9.0% of these patients had XDR-TB. Extensively drug resistant TB (XDR-TB), defined as MDR-TB plus resistance to a fluoroquinolone and at least one of three injectable second-line drugs (amikacin, kanamycin or capreomycin) has been identified in at least 100 countries. (1-2).

DR-TB also occurs in children but there is limited published information about this. The diagnosis of pediatric DR-TB is often delayed due to reliance on the diagnosis of the adult contact case of DR-TB. Resistance patterns in children have generally been found to be similar to those of adults from same areas and similar background, and the proportion of DR-TB in children and adults with bacteriologically confirmed TB is broadly similar (5). The clinical presentation of DR-TB is similar in children of all ages (6). DR-TB is no more infective than normal TB and clinical presentation is the same. However, it is a more serious infection, requiring prolonged administration of anti-TB drugs, has higher morbidity and mortality, and patients remain infectious for a longer period once treatment is started (7).

**Key Facts**

**MDR-TB**

- Resistant to at least isoniazid and rifampicin
- 5% of all TB cases
- In 2013, there were 480,000 MDR-TB cases worldwide, and 210,000 died
- 3.5 % of new TB cases and 20.5% of previously treated cases have MDR-TB

**XDR-TB**

- MDR-TB + resistance to a fluoroquinolone and at least 1 of 3 injectable 2nd-line drugs (amikacin, kanamycin or capreomycin)
- 9.0% of MDR-TB cases are XDR-TB

Laya BF, et al. TB Corner 2015; 1(1):1-5

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INAUGURAL ISSUE: SEPTEMBER 2015

WFPI TB Corner November 2015

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## THE MANY FACES OF HEPATIC TUBERCULOSIS

### Cross-sectional Imaging Manifestations

Vincent R. Tatco, Maria Margarita A. Mejia-Santos and Jacqueline Austine U. Uy  
St. Luke's Medical Center, Philippines

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**Abstract**

Hepatic tuberculosis is rare but its incidence is increasing. In imaging, it presents with different appearances and can mimic a variety of other conditions. A high degree of suspicion combined with appropriate diagnostic modalities greatly aid in the timely diagnosis of the disease. The aim of this review article is to illustrate and discuss the various patterns of hepatic TB on ultrasonography, computed tomography and magnetic resonance imaging.

**Introduction**

Tuberculosis (TB) is an old disease presenting with new faces in the advent of more advanced cross-sectional imaging. It typically affects the lungs but can affect other organs of the body (extrapulmonary). During the latter half of the twentieth century, a dramatic decrease in the incidence of TB was seen in the world as a result of improved nutrition, reduced crowding, public health measures, and effective treatment. But in recent years, there has been an increase in incidence of TB due to several causes, including AIDS epidemic, intravenous drug abuse, increase in the number of immunocompromised patients, and emergence of drug-resistant strains of TB bacilli. Hepatic TB is one of the manifestations of extrapulmonary TB and its incidence has also been increasing (1, 2).

**Hepatic Involvement in Tuberculosis**

TB of the liver is uncommon and accounts for less than 1% of all tuberculous infections (3). It is rare due to low tissue oxygen tension in the liver, which is unfavorable for mycobacterial growth. The disease may present at any age but is most commonly seen in young adults.

**Hepatic TB**

Hepatic TB can occur primarily or it can be secondary to a tubercular focus elsewhere in the body. Miliary disease of the liver results when TB bacilli reach the liver via the hepatic artery from a tuberculous infection of the lungs. In some cases, infection could reach the liver via the portal vein notably if there is concomitant involvement of the gastrointestinal tract. In localized hepatic TB, the route of propagation is usually through the portal vein. The TB bacilli may also reach the liver by lymphatic spread or due to rupture of a tuberculous lymph node along the portal tract. Irrespective of the mode of entry, the liver responds by granuloma formation. Both caseating and non-caseating granulomas are seen (4).

**Clinical Manifestations and Nomenclature**

The clinical presentation of hepatic TB is usually insidious and often nonspecific. Most frequently observed

**Key Facts**

**Hepatic TB**

- less than 1% of all TB cases
- may present in any age group, but is most common among young adults
- may occur primarily or as part of disseminated disease
- routes of propagation:
  - hepatic artery (miliary TB)
  - portal vein (localized hepatic TB)
  - lymphatic spread
- clinical presentations and imaging findings are often nonspecific
- biopsy is often needed to obtain definitive histological diagnosis

Tatco VR, et al. TB Corner 2015; 1(2):1-6

1

IDOR ISSUE: NOVEMBER 2015

Regional Societies



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# TB Group: Tele-reading 2015



- ▶ Yahoo group
- ▶ Moderators: Mariaem Andres and Austine Uy
- ▶ Process:
  - ▶ Moderators receives referrals and circulates the case
  - ▶ Members view images and sends their opinion
  - ▶ Opinions collated and summarized by moderators
  - ▶ Final opinion sent to source (24 hour TAT)

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## Regional Societies



## ▶ Founding Societies

# TB Group: Tele-reading 2015



## LAO FRIENDS HOSPITAL FOR CHILDREN

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# TB Group: Tele-reading 2015

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- ▶ Developing contacts
  - ▶ Cambodia
  - ▶ Philippines
  - ▶ South Africa
  - ▶ Latin America?
  
- ▶ Tele-reading is not a chore, it is education for all!
- ▶ Data collection and analysis

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## Regional Societies



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# TB Group: Research



- ▶ Novel and high impact Imaging studies related to TB in children are few
- ▶ Low resource imaging technology
  - ▶ X-ray
  - ▶ Ultrasound (point-of-care radiology)
- ▶ Utility of MRI for subgroup of children with TB
  
- ▶ Protocols can be developed and initiated
- ▶ Where to obtain funding?

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## Regional Societies



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**ON-LINE  
PUBLICATION  
ARTICLES &**

**COLLECT &  
EXISTING  
LITERATURE**

**EXPANDED  
MEMBERSHIP  
& REACH**

**TB  
HOTLINE**

**CHILDHOOD  
TB IMAGING  
RESEARCH**



# Making change at scale: WFPI strategic vision 2015-2018

Gloria Soto, Vice President

Regional Societies



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# WFPI Press release, London, May 30<sup>th</sup> 2011:



- ▶ “The leaders of the world’s regional pediatric imaging societies have united to establish the **World Federation of Pediatric Imaging** in order to address global barriers to optimal pediatric imaging care. The WFPI will promote education, best practices, appropriate imaging guidelines, and work to provide better access to vital imaging care for children worldwide.”

- The pediatric voice is not always sufficiently heard in the imaging arena,
- Strength lies in numbers (a united voice is needed)

## Regional Societies



## ▶ Founding Societies

# Mission Statement (2012)

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- ▶ WFPI provides an international platform for pediatric radiology organizations united to address the challenges in global pediatric imaging training and the delivery of services.

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## Regional Societies



## ▶ Founding Societies

# Strategic Priorities

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- ▶ **Communication** and **collaboration** between pediatric imaging practitioners, via their organizations
- ▶ **Advocating** for appropriate practices and resource allocation for children (including patient safety)
- ▶ **Education**
- ▶ **Outreach** and **training** in lower resource settings
- ▶ **Research**
- ▶ **Sharing information**

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## Regional Societies



## ▶ Founding Societies

# Nov 2015



- ▶ Progress is tangible - both on the governance and project fronts

Translating ambitions into meaningful roll out and overcoming geographic, temporal, cultural and linguistic barriers is hard work.

Regional Societies



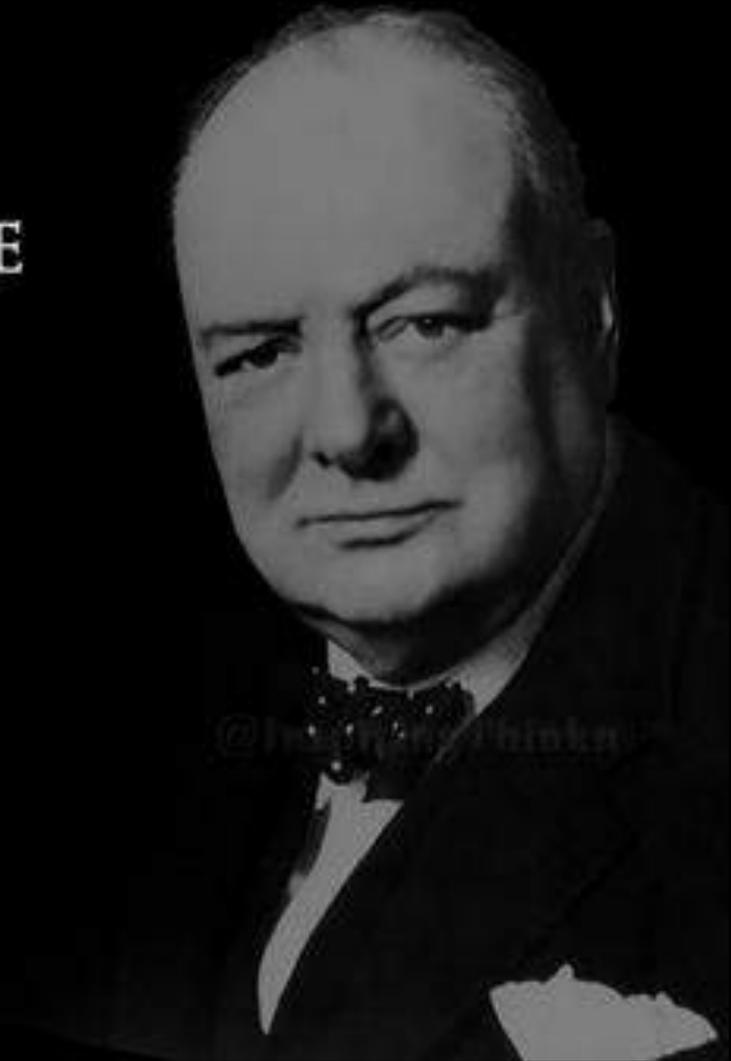
▶ Founding Societies

HOWEVER BEAUTIFUL THE  
STRATEGY, YOU SHOULD  
OCCASIONALLY LOOK AT  
THE RESULTS.

WINSTON CHURCHILL (1874-1965)

@InspiringThinkn

MOTIVATIONAL-INSPIRATIONAL-WORLD.BLOGSPOT.COM



Founding Societies



the Society for  
Paediatric Radiology



# Feedback on WFPI priorities to date

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- ▶ WFPI's member organizations via Regional representatives on WFPI's Council
- ▶ Members of the Society of Pediatric Radiology (SPR) via an internal SPR survey

Consider WFPI's priorities, projects and structure  
(Responses tied into WFPI's output and strategic approach)

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## Regional Societies



## ▶ Founding Societies

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# Feedback on WFPI priorities to date



- ▶ 5 regional societies and 273 individual members of SPR provided feedback

The results provided WFPI's leadership with guidance on member support, dissent and future strategies

## Regional Societies



## ▶ Founding Societies

# Feedback on WFPI priorities to date



General conviction: creation of WFPI was **“the right way to go”**

- ▶ Positive feedback:
  - ▶ inclusive structural set up
  - ▶ aim of providing a united front
  - ▶ facilitating the sharing of expertise
  - ▶ raising awareness of the multiple needs of pediatric imaging

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## Regional Societies



## ▶ Founding Societies

# Feedback on WFPI priorities to date

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**Consensus:**

**Attracting external funding is a challenge**

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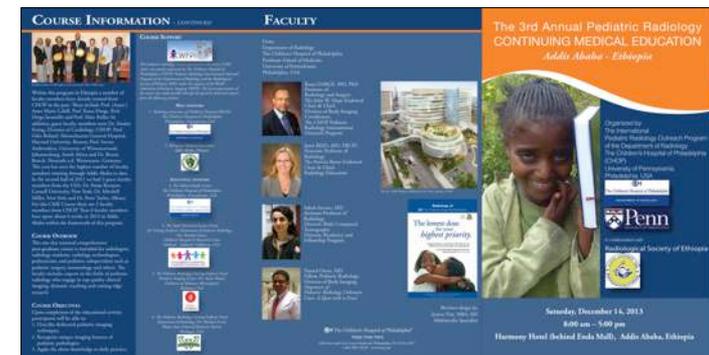


▶ Founding Societies

# Feedback on WFPI priorities to date



- ▶ Consensus: Intrinsic initiatives run by member societies are important and have to be maintained
  - ▶ Avoid duplication
  - ▶ No competition



Regional Societies



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# Feedback on WFPI priorities to date



## ▶ Consensus: WFPI's critical role:

- ▶ Channel for global dissemination of tools
- ▶ Sharing "lessons learnt"
- ▶ Opening networks & collaborative paths
- ▶ Providing recognition as an international body in pediatric imaging



### Regional Societies



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# Highest ranking priorities



## ▶ Global imaging safety



**2015:** formalized partnership with **Image Gently**

- ▶ promote efficient and effective use of resources for improved imaging healthcare for children at a **global level**

Consolidation and extension of partnerships with other regional initiatives is now required (AfroSafe, LatinSafe...)

Regional Societies



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# Highest ranking priorities



- ▶ Providing affordable online education worldwide
  - ▶ **2015 - with the support of the SPR** a multi-topic, internationally steered WFPI **online video library online** was launched (WFPI website)
    - ▶ 13 videos posted to date (one in Spanish) viewed over 5000 times
    - ▶ “Introduction to Pediatric Chest Radiology” (Prof. G. Taylor, 1425 views /October 2015).

WFPI online educational offerings: Facebook, YouTube videos, Instagram,  
To be explored: mobile and tablet apps

Learn pediatric radiology with the experts!

Launched with Prof. George Taylor's Master Classes

For free!

**WFPI education channel: CLICK HERE**

WFPI logo, UN logo, YouTube logo

## Regional Societies



## ▶ Founding Societies

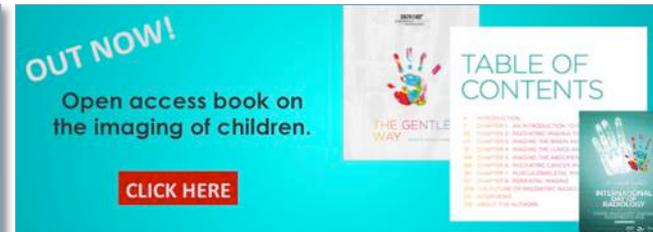
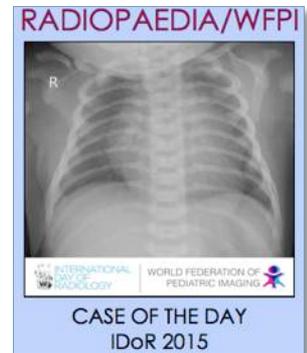
# Highest ranking priorities



## ▶ Advocacy

WFPI aims to advocate for children's imaging healthcare at every forum and meeting possible

- ▶ UN - WHA
- ▶ WHO/IAEA workshops
- ▶ RAD-AID conference
- ▶ WFUMB and ACR outreach committees
- ▶ ISR
- ▶ IDoR 2015



## Regional Societies



## ▶ Founding Societies

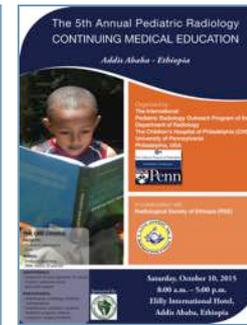
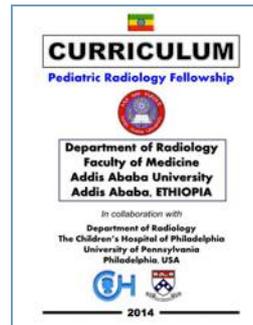
# Highest ranking priorities



## ▶ “Bolt on” outreach

Avoid resource duplication; engage with other organizations to leverage pre-existing resources - inject pediatric expertise

- Imaging the World in Malawi/ Uganda
- RAD-AID in Laos & Ghana
- ACR educational courses in Haiti
- Partnership with CHOP/USA fellowship program in Ethiopia
- MSF/DWB Tele-reading & field manuals
- MSF/DWB possible future POC-US developments



### Regional Societies



### ▶ Founding Societies

# WFPI outreach focus points



## Childhood tuberculosis



Re-launch of TB Corner

- ▶ Open access literature,
- ▶ TB hotline
- ▶ Networking needed for take-up

## PoC US in lower resource settings

- ▶ Log – activities
- ▶ List – names
- ▶ Link – to information
- ▶ Leverage - resources
- ▶ Literature - specific to interests
- ▶ Lubricate - communication
- ▶ Louder – presentations at congress



## Telereading



Regional Societies



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# Conclusions



## WFPI is “the right way to go”:

- ▶ Group of professionals with great deal of expertise.
- ▶ Only organization that advocates specifically for accessible, timely and safe diagnostic imaging in children at a global level
- ▶ It aims to create tools and generate resources that can be leveraged by multiple groups to be used where the need arises
- ▶ It has taken time to mould but we know international organizations must continuously morph and adapt.

### Regional Societies



### ▶ Founding Societies

# Conclusions



## Challenges:

- ▶ Improve communication with member societies: Increase sense of belonging and representativeness
- ▶ Identify partners and leverage points
- ▶ Enhance networks with imaging organizations
- ▶ Strengthen visibility in the global arena
- ▶ **Attract sustainable external funding**

### Regional Societies



### ▶ Founding Societies

# Conclusions

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- ▶ The organization is relevant and impactful and has the chance to make change at scale.

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## Regional Societies



## ▶ Founding Societies

- ▶ WFPI is an inspirational society and has offered much support to paediatric imaging in Africa and South Africa.
- ▶ Considering the significant disease burden and the large population of children living in Africa, a united front and sharing of expertise will only strengthen the drive to combat these challenges.

## Regional Societies



## ▶ Founding Societies



**Thanks for your attention!**

Founding Societies



the Society for  
Pediatric Radiology

