PROGRAMME
THURSDAY October 1

DES part 1 - DES Course: Senology 2.0 2.0
9:00-10:45
Channel 2

Moderator: L. Ceugnart (Mons-en-Barœul), A. Tardivon (Paris)

09:00 - What is the future for organized screening?
I. Doutriaux-Dumoulin (Nantes)

09:27 - Acquisition in mammography/tomosynthesis/synthetic imaging: what are the basic principles and how to optimize acquisition?
A. Bekhouche (Paris)

09:54 - Breast MRI: indications / technique / provision of rapid sequences
C. Malhaire (Paris)

10:21 - Breast MRI: Interpretation, BI-RADS
B. Boyer (Paris)

DES part 2 - DES Course: Senology 2.0 2.0
11:00 - 13:00
Channel 2

Person in charge: F. Chamming’s
Moderator: C. Colin (Lyon), A. Tardivon (Paris)

11:00 - Tomosynthesis: reading modalities
C. Tourasse (Lyon)

C. Balleyguier (Villejuif)

11:54 - Breast ultrasound: technique, indications, recent developments
M. El Khoury (Montreal, Canada), B. Mesurolle (Clermont-Ferrand)

12:21 - Elastography: can we be more specific in ultrasound?
F. Chamming’s (Bordeaux)

DES part 3 - DES Course: Senology 2.0 2.0
14:00 - 16:00
Channel 2

Moderator: F. Chamming’s (Bordeaux), I. Thomassin-Naggara (Paris)
14:00 - Biopsy under MRI
J. Arfi-Rouche (Villejuif)

14:27 - Macrobiopsy under ultrasound
F. Chamming's (Bordeaux)

14:54 - Percutaneous treatments
C. De Bazelaire (Paris)

15:21 - Biopsy under tomosynthesis
E. Poncelet (Valenciennes), E. Pages-Bouic (Assas)

DES part 4 - DES Course: Senology 2.0 2.0
16:00 - 17:45
Channel 2

Moderator: F. Chamming's (Bordeaux), I. Thomassin-Naggara (Paris)

16:00 - Breast cancer: what pre-therapeutic assessment? Place of recent techniques
P. Taourel (Montpellier)

16:30 - Lesion with uncertain malignant potential (B3): when can we not operate?
M. Boisserie-Lacroix (Bordeaux)

17:00 - Synthesis: Breast imaging of tomorrow: how will AI change our organizations and practices?
I. Thomassin-Naggara (Paris)

FRIDAY October 2

How I do an echo-doppler of the renal arteries (initiation)
08:00-08:35
Channel 6
O. Helenon (Paris)

Upper limb instabilities: from anatomy to therapeutic basis
08:00 - 09:00
Channel 2

Modérateur : A. Blum (Nancy, France), P. Teixeira (Nancy, France)

- Know the main structures responsible for the stability of the shoulder, elbow and wrist.
- Know how to identify the Dorsal Capsulo-Scapholunate Septum (DSCC) in imagery
- Know the elements determining the therapeutic decision
08:00 - Wrist instabilities
Orateur(s) : P. Teixeira (Nancy, France), L. Athlani (Nancy, France), A. Rauch (Nancy, France), R. Gillet (Nancy, France), C. Lombard (Nancy, France), G. Edouard (Nancy, France), A. Blum (Nancy, France)

08:15 - The instabilities of the elbow
Orateur(s) : R. Gillet (Nancy, France), A. Rauch (Nancy, France), C. Lombard (Nancy, France), G. Edouard (Nancy, France), P. Teixeira (Nancy, France), A. Blum (Nancy, France)

08:30 - Shoulder instabilities
Orateur(s) : A. Blum (Nancy, France), R. Gillet (Nancy, France), C. Lombard (Nancy, France), A. Rauch (Nancy, France), G. Edouard (Nancy, France), L. Simon (Nancy, France), M. Louis (Nancy, France), A. Chanson (Nancy, France), P. Teixeira (Nancy, France)

08:45 - Moderation and general discussion
Orateur(s) : A. Blum (Nancy, France), P. Teixeira (Nancy, France)

Cardiac CT for Everyone: The Basics
08:00 - 09:00
Channel 4

Modérateur : A. Jacquier (Marseille, France), O. Vignaux (Neuilly-sur-Seine, France)

- Know how to optimize the acquisition parameters in cardiac scanning
- Master the CAD RADS classification
- To know the place of cardiac CT in the analysis of stents and bypasses
- Knowing the scan place in the exploration of SCAs

08:00 - How to optimize acquisition, injection and dose
Orateur(s) : H. Zarqane (Montpellier, France)

08:12 - Describe plaque and quantify stenosis - CAS RADS classification
Orateur(s) : S. Si-Mohamed (Lyon, France)

08:24 - Analyze stents and bypasses
Orateur(s) : L. Cassagnes (Clermont-Ferrand, France)

08:36 - The coroscanner in the SCA
Orateur(s) : G. SOULAT (Paris, France)

08:48 - General Discussion: Cardiac CT for Everyone: The Basics
Orateur(s) : A. Jacquier (Marseille, France), O. Vignaux (Neuilly-sur-Seine, France)
Artificial Intelligence and Predictive Medicine in Neuroradiology
08:00 - 09:00
Channel 3

Responsible: A. Attye (Grenoble, France), F. Cotton (Lyon, France), N. Pyatigorskaya (Paris, France)
Modérateur: F. Cotton (Lyon, France), N. Pyatigorskaya (Paris, France)

- Understand the difference between predicting an individual patient's prognosis and predicting at the level of a group of patients.
- To discuss the interest of deep learning and manifold learning in predictive medicine in neuroimaging.
- Understand the difference between predicting an individual patient's prognosis and predicting at the level of a group of patients.

08:00 - Prediction and multiple sclerosis
Orateur(s): C. Guttman (Boston, États-Unis)

08:12 - Manifold learning: methodological principles and prediction
Orateur(s): F. Renard (Grenoble, France)

08:24 - Numerical models of neurodegenerative disease progression
Orateur(s): S. Durrleman (Paris, France)

08:36 - Precision medicine: how to integrate clinical and radiological markers
Orateur(s): A. Attye (Grenoble, France), F. Renard (Grenoble, France)

08:48 - General Discussion: Predicting Disability in Neurodegenerative Pathology: ready to use?
Orateur(s): F. Cotton (Lyon, France), N. Pyatigorskaya (Paris, France), A. Attye (Grenoble, France)

Ultrasound-guided tracking in senology (Tracking and clip placement)
08:35-09:15
Channel 6
S. Moalla (Jewish City)

Basic materials in arterial and venous peripheral angioplasty
09:00 - 09:30
Channel 6, VRI

09:00 - Basic materials in arterial and venous peripheral angioplasty: introduction and generalities
C. Del Giudice (Paris), M. Sapoval (Paris)
09:08 - Basic materials in arterial and venous peripheral angioplasty: balloons
C. Del Giudice (Paris), M. Sapoval (Paris)

09:18 - Basic materials in arterial and venous peripheral angioplasty: Stent
C. Del Giudice (Paris), M. Sapoval (Paris)

Manipulators and Scanography: changes in practices
09:00 - 10:00
Channel 5

Moderator: M. Nespoulous (Mareuil-lès-Meaux), A. ETTAOUIR (Paris)

Objectives:

- Understand the technological advances
- Optimize acquisition techniques
- Adapting professional practices

09:00 - Assistance, automation and artificial intelligence, back to the coroscanner
B. Thiriat (Nancy)

09:12 - Contribution of artificial intelligence in the improvement of scanographic images
S. PAYEN (Amiens), M. Prevost (Amiens), P. Houliez (Amiens)

09:24 - Dual energy liver scanner and virtual reconstruction without contrast: can we do without acquisition without injection?
X. Pineau (Bordeaux)

09:36 - Angioscanning of pulmonary arteries in pregnant women
A. Cantarinha (Paris)

09:48 - General Discussion: Scanning: changes in practices
X. Pineau (Bordeaux), S. PAYEN (Amiens), A. ETTAOUIR (Paris), B. Thiriat (Nancy), A. Cantarinha (Paris), M. Nespoulous (Mareuil-lès-Meaux)

Biopsies échoguidées en sénologie
09:30-10:05
Channel 6

S. Moalla (Villejuif)

Childhood Stroke: Acute to Chronic
09:30 - 10:30
Channel 3

Modérateur: B. Husson (le Kremlin Bicêtre, France), D. GREVENT (Paris, France)
To know the 2 frequent arterial diseases responsible for acute ischemic strokes
To know the causes of cerebral hemorrhages, their management and their future.
To know the pediatric particularities of Moyamoya vasculopathy

09:30 - Acute ischemic infarction and 2 frequent arteriopathies to know well
Orateur(s) : B. Husson (le Kremlin Bicêtre, France)

09:45 - Brain hemorrhage: what you need to know
Orateur(s) : G. Boulouis (Paris, France), O. Naggar (Paris, France)

10:00 - Moyamoya's vasculopathy: pediatric peculiarities
Orateur(s) : D. GREVENT (Paris, France)

10:15 - Moderation and general discussion
Orateur(s) : B. Husson (le Kremlin Bicêtre, France), D. GREVENT (Paris, France)

Basics in radiological anatomy of hip pathology
09:30 - 10:30
Channel 2

Responsable : P. Champsaur (Marseille, France)

- To acquire the radiological and anatomical bases of the hip pathologies: fractures, coxarthrosis, anterior hip conflict
- To know the key images in standard X-ray, echo, Tdm, irm and arthro-scan and arthro-IRM

09:30 - Bases in anatomy radiology hip pathologies in children
Orateur(s) : P. Petit (Marseille, France)

09:45 - Bases in anatomy radiology hip pathologies in adults
Orateur(s) : J.D. Laredo (Paris, France)

10:00 - News: Basics of anterior hip conflict
Orateur(s) : D. Guenoun (Marseille, France)

10:15 - Discussion générale : Les éléments clefs à ne pas oublier dans les bases en anatomie radiologie de la hanche

Echo-guided punctures in senology
10:05-10:25
Channel 6
S. Moalla (Villejuif)

Hepatic ablation by multi-antennae microwaves
10:30-11:00
Channel 6
J. Garnon (Strasbourg)
Polytraumatisme update 2020
10:30 - 11:30
Channel 4

Modérateur : K. Chaumoitre (Marseille, France)

9:15 - Techniques, protocols, dosimetry: how to optimize?
Orateur(s) : K. Chaumoitre (Marseille, France), R. Naccache (Marseille, France), F. Arnaud (Marseille, France), M. Di Bisceglie (Marseille, France), L. Zieleskiewicz (Marseille, France)

09:30 - Thoraco-abdominal traumas: serious and severe injuries
Orateur(s) : M. Di Bisceglie (Marseille, France), F. Arnaud (Marseille, France), T. Bege (Marseille, France), K. Chaumoitre (Marseille, France)

09:45 - Active leaks and place of interventional radiology
Orateur(s) : F. Arnaud (Marseille, France), M. Di Bisceglie (Marseille, France), J. Soussan (Marseille, France), K. Chaumoitre (Marseille, France)

10:00 - General discussion: Polytrauma update 2020
Orateur(s) : K. Chaumoitre (Marseille, France)

Sampling, treated breast, oncogenetics: from standardised theory to personalised practice
11:00 - 12:00
Channel 2

Modérateur : G. Hurtevent-Labrot (Bordeaux, France)

- Know how to determine the indication for a biopsy, know the different sampling modalities available to the radiologist according to the type of target and know how to carry out a radio-histological concordance.
- Be aware of adjunctive techniques such as conversational hypnosis to improve patient comfort.
- To know which protocol to use for mammography and ultrasound for optimal monitoring of the breasts treated and the place of MRI and tomosynthesis in these follow-ups.
- To know the HAS recommendations for senological monitoring and their applications in daily practice.
- To know the oncogenetic bases that allow us to propose senological monitoring adapted to each patient, taking into account her family history.

11:00 - Per-cutaneous sampling: development and novelties
Orateur(s) : G. Hurtevent-Labrot (Bordeaux, France)

11:15 - Follow-up of treated breasts: how to prioritize imaging exams to avoid pitfalls
Orateur(s) : S. Ferron (Bordeaux, France)
11:30 - What surveillance for what woman?
*Orateur(s)*: M. Asad Syed (Bordeaux, France)

11:45 - Moderation and general discussion
*Orateur(s)*: G. Hurtevent-Labrot (Bordeaux, France), M. Asad Syed (Bordeaux, France), S. Ferron (Bordeaux, France)

**Diagnostic and interventional ultrasound of thyroid cysts and thyroid gland cysts**
11:00 - 12:00
Channel 3

*Modérateur*: G. Russ (Paris, France), M. Tassart (Paris, France)

- Know how to diagnose cysts of the thyroid tract and identify the carcinomatous forms.
- Know how to distinguish simple thyroid cysts from complexes and know the pitfalls.
- To know the indications and the technique of the alcoholization of thyroid cysts and the thyroid tract.

10:45 - Diagnosis of thyroid tract cysts
*Orateur(s)*: M. Tassart (Paris, France)

11:00 - Thyroid cysts: from simple to complex without forgetting the pitfalls
*Orateur(s)*: M. Bienvenu-Perrard (Paris, France)

11:15 - Alcoholization of thyroid cysts: when and how?
*Orateur(s)*: G. Russ (Paris, France)

11:30 - General Discussion: Thyroid cysts: how to avoid surgery whenever possible?
*Orateur(s)*: G. Russ (Paris, France), M. Tassart (Paris, France)

**Prix Communication Jeunes chercheurs**: My research in 180 seconds
11:15-11:45
Channel 6

**Inaugural Conference**: State of Radiology in the era of Post COVID
12:00-12:45
Channel 1

*Orateur*: E. Siegel

**Disruptive Imaging Service**: Towards a new concept derived from precision medicine
13:00 - 13:30
Channel 4

Symposium
Moderator : F. PEGAZ FIORNET (Saint-Denis)

13:00 – Introduction
F. Pegaz-Fiornet (Saint-Denis)

13:02 - Disruptive Imaging Service: Towards a new concept derived from precision medicine
Mr. Paret (Saint-Priest-en-Jarez)

13:22 - Questions and Answers
F. Pegaz-Fiornet (Saint-Denis), M. Paret (Saint-Priest-en-Jarez)

Organizer: SIEMENS

High field open MRI, the only solution for the management of all patients
13:00-13:45
Channel 5

Symposium

13:00 - Introduction: Why choose open MRI
L. Lunetta (Zug, Switzerland)

13:05 - A different approach to cardiac MRI
Mr. Olimulder (Hardenberg, Netherlands)

13:20 - Questions / Answers
M. Olimulder (Hardenberg, Netherlands), L. Lunetta (Zug, Switzerland)

Organizer: HITACHI

How to differentiate epicondyle tendons in ultrasound?
13:00 - 14:00
Channel 2

Symposium
J.-L. Brasseur (Paris)

Organizer: ESAOTE
Routine AI: What are the benefits? Feedback from experience
13:00 - 14:00
Channel 6

Symposium

13:00 - Deep Learning Reconstruction: An Everyday Reality in Osteoarticular Surgery
E. Lamain (Grenoble), R. WAZIZI (Grenoble)

13:12 - I.A: in 2 letters, change your practice into a scanner
F. Legou (Saint-Denis)

13:24 - I.A: in 2 letters, change your practice into a scanner
V. Lombard (Nancy)

13:36 - AI in senology: Use of machine learning in the diagnosis of breast lesions
F. Spagnoli (Paris)

Organizer: GE

Ultrasound on difficult patients: benefits of the DAX probe
3:30 - 14:00
Channel 4

Symposium
Moderator: F. PEGAZ FIORNET (Saint-Denis)

13:30 - Ultrasound on difficult patients: benefits of the DAX probe
J.-P. Tasu (Poitiers)

13:50 - Q&A discussion
O. Charliac (Paris), J.-P. Tasu (Poitiers)

Organizer: SIEMENS

Adrenal Imaging: the keys to not getting it wrong
14:00 - 15:00
Channel 2

Modérateur: L. Rocher (Le Kremlin Bicêtre, France), F. Montravers (Paris, France)

- In the case of incidental adrenal injury, know the density and lavage criteria for adequate management, know the limits of these criteria and assist in the writing of the report.
- Knowing how to conduct an imaging examination based on the diagnosis of a secretory lesion
• To know the expected appearance of secretory endocrine tumours and their possible consequences.
• Clarify the contribution of the different nuclear medicine exams, and know the tracer adapted to each pathology.

14:00 - Adrenals and Hypercorticism: The Role of Diagnostic Imaging
*Orateur(s)*: L. Rocher (Le Kremlin Bicêtre, France)

14:12 - Adrenal Incidentalomas: which algorithm?
*Orateur(s)*: P. Chagué (Clamart, France)

14:24 - Pheochromocytomas/paragangliomas: what imaging and follow-up?
*Orateur(s)*: A. Savignac (Le Kremlin Bicêtre, France)

14:36 - Adrenals and Nuclear Medicine in 2020: Updating Our Knowledge
*Orateur(s)*: F. Montravers (Paris, France)

14:48 - General Discussion: Adrenals in 2020: What’s new?
*Orateur(s)*: F. Montravers (Paris, France), L. Rocher (Le Kremlin Bicêtre, France)

**Decisional Algorithms in Abdominal Imaging**
14:00 - 15:00
Channel 4

*Modérateur*: E. Frampas (Nantes, France), C. Aubé (Angers, France)

• To know the main algorithms useful in abdominal imaging
• To know the basics of their construction
• Knowing the decisive limits
• Will the algorithms replace the radiologist?

14:00 - LIRADS, principles and limits
*Orateur(s)*: C. Aubé (Angers, France), J. Lebigot (Angers, France), A. Paisant (Angers, France)

14:15 - Decisional algorithm for cystic lesions of the pancreas
*Orateur(s)*: M.P. Vullierme (Clichy, France), P. Copin (Paris, France)

14:30 - Algorithms and digestive pathology
*Orateur(s)*: E. Frampas (Nantes, France)

14:45 - General discussion: Will our work come down to algorithms?
*Orateur(s)*: E. Frampas (Nantes, France), C. Aubé (Angers, France)

**Operational recommendations for patient management during Interventional Radiology procedures**
14:00-15:00
Channel 5
The Great Conference: Radiology, patient experience and society: What are the challenges for the next world?

14:00-15:00
Channel 1

The pandemic health crisis has deeply questioned the needs and expectations of patients in terms of care.

On every continent, and in the face of this challenge, radiology has been totally committed to this challenge in terms of human, technological and organizational resources.

This commitment illustrates the societal challenges of tomorrow for radiology. Improving patient care and developing a demanding approach through the improvement of the "Patient Experience" in radiology and medical imaging will be a main focus and a central theme of JFR2020. And this theme will also lead us to consider how radiology, both diagnostic and interventional, will be at the heart of geriatric and addiction care, as highlighted by the pandemic.

And how can we discuss these crucial issues without addressing the territorial organization of radiology and medical imaging?

JFR2020 will be at the heart of this societal commitment to radiology.

In this sense, the major conference will question the actors on the aims of imaging technologies and their implementation in a world in deep health crisis but also on values.
Artificial Intelligence and Breast Cancer
14:00-16:00
Channel 6

Modérateur : I. Thomassin-Naggara (Paris)

14:00 - Artificial intelligence and mammography screening
B. Boyer (Paris)

14:15 - Artificial intelligence and ultrasound
C. Balleyguier (Villejuif)

14:30 - Artificial intelligence and breast MRI
I. Thomassin-Naggara (Paris)

14:45 - Beyond performance, building radiologist-Artificial Intelligence complementarity
M. Leclerc-Chalvet (Paris)

15:00 - Artificial Intelligence for Early Detection and Diagnosis of Breast Cancer
L. Gavit (Paris)

15:15 - Artificial Intelligence and Breast Cancer: From Detection to Risk Assessment
M. Boutin (Paris)

15:30 - Artificial Intelligence and Breast Cancer Risk for Personalized Screening
E. Gauthier (Paris)

General Discussion - Questions and Answers
I. Thomassin-Naggara (Paris), B. Boyer (Paris), C. Balleyguier (Villejuif)

Imaging and Psychiatry: where do we stand?
15:15 - 16:15
Channel 3
Modérateur : J.-P. Pruvo (Lille), A. Amad (Lille)

Objectives :
To explain the interest of brain imaging in psychiatry in general and in first psychotic episodes; to show the contribution of cerebral MRI as an indispensable tool in the characterization of encephalic anomalies; to know the differential diagnoses and to know how to recognize them in imaging; to demonstrate the contribution of advanced imaging and functional imaging techniques in the exploration of psychiatric disorders; to show that MRI can guide possible targeted therapies; to briefly develop the contribution of the high magnetic field (7 Tesla MRI) in the detection of new anomalies and in the enrichment of psychiatric radiological semiology. All of these objectives play a role in improving the understanding of the disease and its treatment, and aim at optimizing the patient care approach in psychiatry.
15:15 - Brain Imaging in Clinical Psychiatry: Why do I do an MRI?
A. Amad (Lille), J.-P. Pruvo (Lille)

15:30 - First Psychotic Episode: Differential Diagnosis Not to be Missed
R. Hanafi (Lille), M. Mateos (Lille)

15:45 - Advanced imaging and psychiatry: how to reveal the invisible?
S. Bernard (Lille)

16:00 - General discussion and moderation: questions and answers
S. Bernard (Lille), A. Amad (Lille), R. Hanafi (Lille), J.-P. Pruvo (Lille)

Cervical Cancer: A Multidisciplinary Presentation on the Role of Imaging in Therapeutic Management and Surveillance
15:30 - 16:30
Channel 2

Modérateur : C. Malhaire (Paris, France), E. Laas (Paris, France)

- Present the basics of imaging protocols and reporting in the initial assessment and surveillance of cervical cancer.
- Recall and illustrate the fundamental elements of the extension assessment, contained in the FIGO classification, and the therapeutic indications according to stage
- Discuss with surgical oncologists and radiotherapists the basic information expected from imaging examinations and their impact on therapeutic management.

15:30 - Initial assessment for infiltrating cervical cancer
Orateur(s) : M. Bereby Kahane (Paris, France)

15:45 - The Therapeutic Implications of Imaging in Cervical Cancer
Orateur(s) : L. Bazire (La Garenne-Colombes, France), C. Malhaire (Paris, France)

16:00 - Cervical cancer surveillance: complication or recurrence?
Orateur(s) : D. Sebbag-Sfez (Paris, France)

16:15 - General Discussion: Cervical cancer MRI in practice: What information is useful to clinicians? How can we respond to them in a meaningful way?
Orateur(s) : C. Malhaire (Paris, France)

Pitch Forum IA: Quantification, Staging and Prognosis of Covid19 Pneumonia by Artificial Intelligence
16:00 - 16:15
Channel 6, Artificial Intelligence Forum

N. PARAGIOS (Paris)
Organizer : Therapanacea
Cardiac imaging for assessment of coronary arteries and beyond
16:00 - 17:00
Channel 4

Modérateur : M. Sirol (Boulogne, France)

- Knowing how to make a coroscaner and being able to interpret it
- Know how to quantify the degree of coronary stenosis and recognize significant coronary stenosis.
- To know the technical evolutions of the cardiac scanner
- Knowing how to interpret a myocardial perfusion scan
- Knowing the contribution of perfusion CT beyond coronary imaging
- Know the indications for CT or MRI scans in vasculitides and connective tissue diseases.
- Differentiate between coronary and microcirculation damage in CT or MRI scans.

16:00 - Coronary Heart Disease and Ischemic Heart Disease
Orateur(s) : M. Sirol (Boulogne, France)

16:02 - Myocardial perfusion scanner
Orateur(s) : O. Vignaux (Neuilly-sur-Seine, France)

16:17 - Coronary damage in vasculitides and connectivitis
Orateur(s) : J.F. Deux (Créteil, France)

16:32 - Moderation and general discussion
Orateur(s) : M. Sirol (Boulogne, France), O. Vignaux (Neuilly-sur-Seine, France), J.F. Deux (Créteil, France)

Vertebroplasty technique on simulation models
16:30 – 16:55
Channel 6

J.-F. Budzik (Lille), E. Shotar (Paris)

Artificial intelligence in radiology and training of radiologists: which ways?
16:45 - 17:45
Channel 5

Responsable : M. Zins (Paris, France)
Modérateur : I. Thomassin-Naggara (Paris, France), L. Boussel (Lyon, France)

- To discuss the means put in place by radiology teachers for the training in artificial intelligence of all radiologists (initial stage and continuing education)
- Discuss and illustrate the potential role of artificial intelligence in the initial training of interns.
• Discuss and illustrate the potential role of artificial intelligence in the continuing education of radiologists
• Demonstrate and discuss the advantages and limitations of introducing artificial intelligence in the initial training of radiologists.

16:30 - The vision of an educational leader  
*Orateur(s)*: A. Feydy (Paris, France)

16:45 - The vision of a young teacher  
*Orateur(s)*: T. Jacques (Lille, France)

17:00 - The vision of an intern  
*Orateur(s)*: T. Boeken (Paris, France)

17:15 - General discussion: Artificial intelligence in radiology and training of radiologists: which ways?  
*Orateur(s)*: I. Thomassin-Naggara (Paris, France), L. Boussel (Lyon, France)

**Tools in hepatic hepatology**
17:15 - 17:30  
Channel 6, SUV  
B. M. Dioguardi (*Clichy*)

**Echo Doppler: how I do a venous Doppler ultrasound of the lower limbs**
17:45 - 18:40  
Channel 6, SUV  
T. Guedj (*Paris*)

**Interstitial fibrosis pneumonia**
17:45 - 18:45  
Channel 4  
*Modérateur*: G. Ferretti (Grenoble, France), F. Laurent (Pessac, France)

• to know the technical conditions of realization of a scanner to explore a PID  
• to know the semiology and the meaning of ILAs  
• know the different forms of PID associated with connectivity

17:45 - ALI: early fibrosis?  
*Orateur(s)*: G. Ferretti (Grenoble, France), E. Reymond (Grenoble, France), A. Jankowski (Grenoble, France)

18:00 - Diffuse Infiltrating Pneumonia of Connectivitis  
*Orateur(s)*: F. Laurent (Pessac, France)
18:15 - Idiopathic pulmonary fibrosis
Orateur(s) : B. Padovani (Nice, France), A. Themelin (Nice, France), Q. Varnier (Nice, France), V. Flory (Nice, France), A. Prestat (Nice, France), Y. Diascorn (Nice, France), D. Ducreux (Nice, France)

18:30 - General Discussion: Interstitial Fibrosis Pneumonia
Orateur(s) : G. Ferretti (Grenoble, France), F. Laurent (Pessac, France)

Percutaneous management of complex bone metastases
17:45 - 18:45
Channel 2

Modérateur : F. Clarençon (Paris, France)

- To know the different techniques of cervical vertebroplasty
- To know the technical possibilities of preoperative embolization of hyper-vascular bone metastases
- To know the guiding tools available for difficult ballistic percutaneous osseous gestures

17:45 - Cervical vertebroplasty: technique, tips, risks

18:00 - Pre-Operative Embolization of Spinal Metastases

18:15 - Per-cutaneous guidance systems for the treatment of difficult ballistic lesions

18:30 - Moderation and general discussion
Orateur(s) : F. Clarençon (Paris, France), E. Cormier (Paris, France), E. Shotar (Paris, France)

From signal to image: new techniques and perspectives in MRI
19:00 - 19:30

Symposium
Moderator: J. Gervais (Paris)

19:00 – Introduction
J. Gervais (Paris)

19:02 - From signal to image: new techniques and perspectives in MRI
V. Barau (Saint-Denis)
19:08 - From signal to image: new techniques and perspectives in MRI
S. Mulé (Créteil)

19:14 - From signal to image: new techniques and perspectives in MRI
N. Menjot De Champfleur (Montpellier)

19:20 - General Discussion
J. Gervais (Paris), V. Barau (Saint-Denis), N. Menjot De Champfleur (Montpellier), S. Mulé (Créteil)

Organizer: SIEMENS

AI, scientific collaborations and lung pathologies: a new standard
19:30 - 20:00
Channel 4

Symposium
D. COMANICIU (Paris), P. Grenier (Paris), M. Remy-Jardin (Lille)

Organizer: SIEMENS

SATURDAY October 3

Knee Tips and Tricks
08:30 - 09:30
Channel 2

Modérateur : A. Cotten (Lille, France)

- Adopt analytical reflexes when faced with certain clinical or radiological presentations.
- Knowing how to be precise in the semiological analysis of the MRI of the knee
- Mastering a fine, less known semiology

08:30 - Proximal tibio-fibular joint: that misunderstood
Orateur(s) : S. Badr (Lille, France), E. Turquet (Lille, France), L. Scarchiola (Lille, France), M. HERTELEER (Lille, France), X. Demondion (Lille, France), A. Cotten (Lille, France)

08:50 - Knee trapping diagnostics: how to get out of it and avoid mistakes?
Orateur(s) : T. Jacques (Lille, France), S. Henry (Lille, France), Q. Waymel (Lille, France), A.C. Sergeant (Lille, France), M. Gontier (Lille, France), A. Cotten (Lille, France)

09:10 - Difficult meniscal lesions
Orateur(s) : A. Cotten (Lille, France), T. Jacques (Lille, France), J. Dartus (Lille, France), G. Lefebvre (Lille, France), V. Morel (Lille, France), X. Demondion (Lille, France)
Role of the forensic manipulator in forensic imaging
09:00 - 10:00
Channel 5

Modérateur : E. Dumousset (Clermont-Ferrand, France), C. Bartoli (Marseille, France)

- Discovering the role of the manipulator in forensic medicine
- Distinguishing specificities related to forensic imaging
- Understanding the challenges of forensic imaging

09:00 - The role of the forensic manipulator in the realization of a non-injected postmortem scanner
Orateur(s) : L. Geinex (Clermont-Ferrand, France), C. Lacoste (Clermont-Ferrand, France)

09:12 - The role of the forensic manipulator in the realization of a non-injected postmortem scanner
Orateur(s) : S. Jusom (Toulouse, France)

09:24 - The role of the forensic manipulator in post-treatment
Orateur(s) : A. STEIMER (Nancy, France)

09:36 - The scanner implanted in a forensic medicine unit
Orateur(s) : E. Jeanson (Chambray-lès-Tours, France)

09:48 - General discussion: Feedback from the floor on the themes discussed
Orateur(s) : E. Dumousset (Clermont-Ferrand, France), C. Bartoli (Marseille, France)

Thyroid: Characterization
09:15 - 09:30
Channel 6, SUV

H. Monpeyssen (Neuilly-sur-Seine)

Interventional radiology of abdominal post-operative complications
09:15-10:15
Channel 4

Responsable : P. Chabrot
Modérateur : L. Boyer (Clermont-Ferrand), M. Ronot (Clichy)

- To present clinical and radiological presentations of major vascular complications following liver transplantation, pancreatectomy and urological surgery.
- To present the indications for endovascular management of vascular complications of abdominal surgery.
- To present the basic techniques of endovascular therapeutics in post-operative care.
- To present the results of endovascular therapeutics in post-operative care.
09:15 - Vascular complications of liver transplants  
M. Ronot (Clichy)

09:30 - Vascular complications of pancreatectomies  
C. Marcelin (Bordeaux)

09:45 - Vascular complications in urology (transplantation and nephrectomy)  
P. Chabrot (Clermont-Ferrand)

10:00 - General Discussion: The radiologist's place in the multidisciplinary follow-up of digestive surgery: post-operative decision trees  
C. Marcelin (Bordeaux), P. Chabrot (Clermont-Ferrand), L. Boyer (Clermont-Ferrand), M. Ronot (Clichy)

Shoulder: the physical landmarks of the ultrasound scan of the cuff  
09:30 - 09:45  
Channel 6, SUV  
H. Guerini (Paris)

Advanced imaging of spinal vascular malformations  
09:45 - 10:45  
Channel 3  

Modérateur : F. Clarençon (Paris, France)

- To know the main advanced imaging modalities for the exploration of spinal vascular malformations.  
- To know the principles of acquisition of these advanced imaging modalities  
- Know the advantages and limitations of these imaging techniques

09:45 - Place of MRA 4D in the exploration of spinal vascular malformations  
Orateur(s) : K. Premat (Paris, France), E. Shotar (Paris, France), S. Lenck (Paris, France), N. Sourour (Paris, France), F. Clarençon (Paris, France)

10:00 - Intra-aortic injection angio-scanner for the diagnosis and characterization of medullary vascular malformations  
Orateur(s) : E. Shotar (Paris, France), S. Lenck (Paris, France), K. Premat (Paris, France), N. Sourour (Paris, France), F. Clarençon (Paris, France)

10:15 - 4D-DSA: Rotational angiography enters the 4th dimension  
Orateur(s) : F. Clarençon (Paris, France), S. Lenck (Paris, France), E. Shotar (Paris, France), K. Premat (Paris, France), N. Sourour (Paris, France)

10:30 - Moderation and general discussion  
Orateur(s) : F. Clarençon (Paris, France), K. Premat (Paris, France), E. Shotar (Paris, France)
Your JFR - Predictive medicine in musculoskeletal imaging
10:00-11:00
Channel 2

Modérateur : C. Cyteval (Montpellier), J.-F. Budzik (Lille)

10:00 - Automated opportunistic osteoporotic fracture risk assessment using computed tomography scans to aid in FRAX underutilization
E. Elnekave (Tel-Aviv, Israël)

10:12 - Radiomics in predicting metastatic relapses in liposarcomas
A. Crombé (Bordeaux)

10:24 - Dual-Energy CT in predicting and managing gout
T. Pascart (Lille)

10:36 - Recent update on sarcopenia imaging. A new concept of sarcopenic obesity and myosteatosis
K. W. Kim (Séoul, République de Corée)

10:48 - Automated assessment of sarcopenia in abdominal CT and prediction of adverse events
V. Sandfort (Stanford, États-Unis)

Artificial intelligence and liver pathologies: great promises, a marriage to succeed
10:00-11:15
Channel 6
Modérateur : S. Mulé (Créteil), V. Vilgrain (Clichy)

Objectives:
• To take stock of the current contributions and future challenges of AI in liver imaging
• To present the diagnostic and prognostic contribution of AI in the anatomopathology of liver tumors.
• To illustrate the interest of artificial intelligence in interventional radiology through the example of hepatic embolization.

10:00 - Artificial intelligence and the liver: challenges and perspectives
S. Mulé (Créteil)

10:15 - Artificial intelligence and histopathology of liver tumors
J. Calderaro (Créteil)

10:30 - Artificial intelligence and interventional radiology: example of liver embolization
M. Ronot (Clichy)

10:45 - Round table discussion
Manipulators and COVID-19 internationally
11:00 - 12:00
Channel 4

*Modérateur* : P. Gerson (Paris, France), B. Thiriat (Nancy, France)

- Assessing the international pandemic situation
- Know the means of risk management
- Exchange on health monitoring practices

11:00 - Imaging technologist, staying strong in front of the invisible
*Orateur(s)* : J. Laverdure (Montréal, Canada)

11:16 - Screening of COVID-19 by scanner: our experience
*Orateur(s)* : S. Kechout (Alger Centre, Algérie)

11:24 - COVID-19 and Tim in Belgium: state of play
*Orateur(s)* : A. TEMPELS (Bruxelles, Belgique), F. PEIFFER (Bruxelles, Belgique)

11:32 - Intervention PlanCOVID-19 for the maintenance of pedagogical activities at the school for senior medical imaging technicians in Côte d'Ivoire
*Orateur(s)* : B. YAO (Abidjan, Côte d'Ivoire)

11:40 - General Discussion: COVID-19 at the international
*Orateur(s)* : P. Gerson (Paris, France), B. Thiriat (Nancy, France)

Pitch Forum IA: IA and Trauma: Feedback
11:15 - 11:30
Channel 6, Artificial Intelligence Forum

N. Jirikoff, (Paris)

Cervical masses of the base of the skull in pediatrics
11:15 - 12:15
Channel 3

*Modérateur* : M. Lémery Magnin (Clermont-Ferrand, France), C. Cellier (Le Kremlin-Bicêtre, France)

- know the diagnostic range of cervical and basal skull masses in pediatrics
- know the diagnostic approach in imaging for these lesions
- know how to identify situations that require further action and/or specialist advice

11:15 - Cystic Cervical Masses in Children
*Orateur(s)* : M. Lémery Magnin (Clermont-Ferrand, France), M. Biard (Clermont-
Ferrand, France), G. Cotton De Bennetot (Clermont-Ferrand, France), J.M. Garcier (Clermont-Ferrand, France), I. Barthélémy (Clermont-Ferrand, France)

**11:30 - Child's strong cervical bodies**  
*Orateur(s)*: L. Cardoen (Paris, France), H. Brisse (Paris, France)

**11:45 - Tumours and pseudotumours from the base of the child's skull**  
*Orateur(s)*: M. Elmaleh-Berges (Paris, France), A. Ntorkou (Paris, France), T. Bogdana (Paris, France), M. Alison (Paris, France)

**12:00 - Moderation and general discussion**  
*Orateur(s)*: M. Lémery Magnin (Clermont-Ferrand, France), C. Cellier (Le Kremlin-Bicêtre, France), L. Cardoen (Paris, France), M. Elmaleh-Berges (Paris, France)

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**Pitch Forum AI: Automatic Analysis by AI in Neuroimaging**  
11:30 - 11:45  
Channel 6, Artificial Intelligence Forum

D. Senan (Grenoble)

**New Biomarkers and Computer-Assisted Diagnosis: Keys to Understanding**  
11:30 - 12:30  
Channel 5

*Modérateur*: A. Iannessi (Nice, France)

- Understanding the entanglement between quantitative imaging biomarkers (QIBs) and diagnostic aids (DACs)
- Understand what underlies, limits and differentiates a quantitative imaging biomarker, radiomics and a marker extracted by deep-learning from large-scale data.
- To know the statistical tools that allow to compare two CAD based on artificial intelligence.
- Know how to analyze and criticize a scientific article dealing with radiomics or artificial intelligence.

**11:30 - Imaging Biomarkers and Computer-Assisted Diagnostics**  
*Orateur(s)*: A. Iannessi (Nice, France), A.S. Bertrand (Nice, France)

**11:45 - Biomarkers for Quantitative and Radiomic Imaging**  
*Orateur(s)*: H. Beaumont (Valbonne, France), F. Orlhac (Orsay, France)

**12:00 - Data-driven biomarkers (Deep learning on large-scale data)**  
*Orateur(s)*: P. Fillard (Paris, France), Y. Nikulin (Paris, France), T. Bertinotti (Paris, France)
12:15 - Moderation and general discussion
Orateur(s) : A. Iannessi (Nice, France), H. Beaumont (Valbonne, France), P. Fillard (Paris, France)

France meets Argentina, Brazil and Spain - Genito-urinary imaging
11:30 - 12:30
Channel 2

Modérateur : M. Andre (Marseille, France), J.M. Correas (Paris, France)

11:30 - The role of mpMRI in active surveillance of prostate cancer: which gaps should be filled
Orateur(s) : V. Muglia (São Paulo, Brésil)

11:45 - MR Imaging before and after transcatheter embolization in Benign Prostatic Hyperplasia
Orateur(s) : J.M. Correas (Paris, France)

Echo-doppler of the digestive arteries
12:00 - 12:20
Channel 6, SUV

J.-M. Correas (Paris)

Echo-doppler of renal arteries: tips and tricks
12:20 - 12:35
Channel 6, SUV

J.-M. Correas (Paris)

Collaborative Imaging
13:00 - 13:45
Channel 2

Symposium
Moderator: C. Oppenheim (Paris)

13:00 - The integration of AiCE in Neuro MRI on a daily basis
B. DOCHE DE LAQUINTANE (Bordeaux)

13:15 - Aquilion ONE / PRISM Edition, a new image experience
C. Roy (Strasbourg)

13:30 - Which tools for the evaluation of chronic liver disease in ultrasound?
V. Vilgrain (Clichy)
Imaging and ballistic trauma among the living: what are the forensic issues?
14:00 - 15:00
Channel 5

Modérateur : M. Ducloyer (Nantes, France), B. Ludes (Strasbourg, France)

- To know the main principles of injuries and the medical management of ballistic traumas.
- To know how to perform emergency imaging in a person being treated for a ballistic trauma: acquisition protocol, interpretation methods, errors to be avoided.
- Know the principles of clinical forensic evaluation and the place of imaging in this evaluation.
- To consider the sociological issues related to forensic imaging in ballistic trauma.

14:00 - Clinical forensic assessment of the victim of ballistic trauma
Orateur(s) : V. Scolan (Grenoble, France)

14:15 - Practical procedures for carrying out emergency imaging in a patient being treated for ballistic trauma
Orateur(s) : M. Ducloyer (Nantes, France)

14:30 - Therapeutic Management: The Challenges of Maxillofacial Surgery
Orateur(s) : H. BERTIN (Nantes, France)

14:45 - General Discussion: What is the forensic value of imaging in living victims of ballistic trauma? What pitfalls should be avoided and how?
Orateur(s) : M. Ducloyer (Nantes, France), B. Ludes (Strasbourg, France)

France meets Spain and Mexico: interventional senology
14:00 - 15:00
Channel 2

Modérateur : C. Balleyguier (Villejuif, France)

- To know the alternatives to guidewire tracking.
- Know the innovations in interventional senology.
- Know the indications for biopsy under tomosynthesis and MRI.
- Know the principle of biopsy under angiomammography, its advantages and constraints.

14:00 - New techniques in wire localization

14:15 - Biopsy under digital breast tomosynthesis
Orateur(s) : M. Del Carmen Lara Tamburrino (Mexico, Mexique)
14:30 - MR guided breast biopsy

14:45 - Biopsy under Contrast-Enhanced Mammography
Orateur(s) : M. Majer (Villejuif, France)

Contribution of Artificial Intelligence in Cardiovascular Imaging
14:00-15:15
Channel 6
Moderator : J.-F. Deux (Créteil), J.-N. Dacher (Rouen)

14:00 - Anatomical and functional classification of coronary stenoses by IA
J.-F. Paul (Le Plessis-Robinson)

14:15 - Deep learning for cardiac MRI segmentation with anatomical guarantees
A. Lalande (Dijon)

14:30 - How to develop an AI project in cardiovascular imaging?: example of non-compaction of the left ventricle
A. Bartoli (Marseille)

14:45 - Round Table: Contribution of Artificial Intelligence in Cardiovascular Imaging
A. Lalande (Dijon), J.-F. Paul (Le Plessis-Robinson), J.-F. Deux (Créteil), A. Bartoli (Marseille), J.-N. Dacher (Rouen)

Clinical Case Session in ENT Imaging
14:15 - 15:15
Channel 3
Moderator: J. Rousset (Brest), F. Benoudiba (Le Kremlin-Bicêtre)

Objectives:

- To review and deepen the diagnostic ranges of "head and neck" diseases and lesions
- know the essential anatomical landmarks to determine the topography of these lesions
- know how to implement the appropriate imaging modalities and protocols
- 3 young experts in head and neck imaging each present 2 to 3 usual or unusual clinics to achieve the indicated educational objectives.

14:15 - Commented files in ENT imaging
E. Talab Berthou (Paris), C. Pelissou (Paris), R. Cadieu (Brest)

Basics of hepatic interventional radiology
15:00 - 16:00
Channel 4
Moderator: G. Koch (Strasbourg), R. L. Cazzato (Strasbourg)
Objectives:

- To know the sub-phrenic and hepatic anatomy applied to hepatic interventional radiology
- Know the indications and techniques for liver biopsies and percutaneous liver draining
- To know the indications and techniques of hepatic thermoablations

15:00 - Introduction
G. Koch (Strasbourg), R. L. Cazzato (Strasbourg)

15:02 - Anatomy of the liver applied to interventional imaging
G. Koch (Strasbourg), J. Garnon (Strasbourg), P. Auloge (Strasbourg), J. Weiss (Strasbourg), P. De Marini (Strasbourg), R. L. Cazzato (Strasbourg), A. Gangi (Strasbourg)

15:17 - Interventional Liver Radiology: Biopsy and Drainage
J. Weiss (Strasbourg), G. Koch (Strasbourg), J. Garnon (Strasbourg), P. Auloge (Strasbourg), P. De Marini (Strasbourg), R. L. Cazzato (Strasbourg), A. Gangi (Strasbourg)

15:32 - Hepatic interventional radiology: thermoablation
P. Auloge (Strasbourg), J. Garnon (Strasbourg), G. Koch (Strasbourg), J. Weiss (Strasbourg), P. De Marini (Strasbourg), R. L. Cazzato (Strasbourg), A. Gangi (Strasbourg)

15:47 - Moderation and general discussion
G. Koch (Strasbourg), R. L. Cazzato (Strasbourg), P. Auloge (Strasbourg), J. Weiss (Strasbourg)

Pitch Forum IA: Artificial Intelligence in clinical routine: Feedback applied to fracture detection in standard radiography
15:15 - 15:30
Channel 6, Artificial Intelligence Forum
J. Vidal (Paris)

How to Explore the Urethra in 2020: An Update
15:30 - 16:30
Channel 2

Modérateur: C. Roy (Strasbourg, France), P. Puech (Lille, France)

- Define good practices for the different imaging techniques
- Give the diagnostic approach for the most common pathologies
- Inform about the performance of less commonly used imaging methods: ultrasound and MRI
- To present the different normal and pathological postoperative aspects
15:15 - Male ureter: from conventional radiology to new techniques
Orateur(s) : P. Puech (Lille, France)

15:30 - Pathologies of the feminine urethra: what explorations in 2020?
Orateur(s) : P. Leyendecker (Strasbourg, France), C. Roy (Strasbourg, France)

15:45 - Investigation of urinary incontinence in women
Orateur(s) : C. Roy (Strasbourg, France)

16:00 - Moderation and general discussion
Orateur(s) : C. Roy (Strasbourg, France), P. Puech (Lille, France)

Spectral Imaging in CT: From Physics to the Clinic
15:30 - 16:30
Channel 5

Modérateur : D. Dabli (Nîmes, France), L. Boussel (Lyon, France)

- Master the physical principles of acquisition and reconstruction in spectral imaging.
- Master the various clinical applications of spectral imaging.
- Know the metrics for phantom evaluation of spectral performance of imaging systems.
- Know the perspectives of spectral imaging with the photonic counting scanner.

15:30 - Physical principles and techniques of acquisition and reconstruction
Orateur(s) : N. Villani (Nancy, France)

15:42 - Clinical Applications of Spectral Imaging
Orateur(s) : J. Frandon (Nîmes, France)

15:54 - Evaluation of spectral performance and comparison of the different systems available
Orateur(s) : J. Greffier (Nîmes, France)

16:06 - The spectral scanner with photonic counting (principle and clinical applications)
Orateur(s) : L. Boussel (Lyon, France)

The spectral scanner with photonic counting (principle and clinical applications)
16:18
Orateur(s) : D. Dabli (Nîmes, France), L. Boussel (Lyon, France)

Echo-Doppler of upper limbs (arterial and venous) initiation
15:45 - 16:10
Channel 6, SUV

15:45 - Echo-Doppler of the upper limbs (arterial and venous) initiation
K. Belattar (Melun)
Hepatic nodule localization
16:15 - 16:30
Channel 6, SUV
O. Lucidarme (Paris)

Your JFR : Management of the first wave of the COVID-19 epidemic, country experiences
16:30 - 17:30
Channel 4

Modérateur : A. Khalil (Paris, France)

- Brief presentation of the country's health system
- Decision of the government and its agencies for the initial care and adaptation (Public services / Private services, army...)
- Organisation of an imaging department within his hospital and the integration of imaging in the management of COVID or COVID suspect patients.
- Lessons learned

16:30 - Chinese Experience

16:42 - Belgian Experience
Orateur(s) : E. Coche (Woluwe-Saint-Lambert, Belgique)

16:54 - Lebanese Experience
Orateur(s) : A. Geara (Beyrouth, Liban)

17:06 - French Experience
Orateur(s) : M. Ohana, (Strasbourg, France)

17:18 - Italian Experience

Use of the INDIGO system for mechanical thrombectomy in arterial and venous
16:45 - 17:15
Channel 6, VRI

C. Del Giudice (Paris)

Accreditation for Dummies
17:00 - 18:00
Channel 3

Responsable : J.P. Beregi (Nîmes, France)
Understanding the goals of quality in radiology and medical imaging
Understand the benefits of team accreditation
To know the steps to follow in this synergistic process of accreditation of radiology teams.

09:00 - How to improve quality: aviation experience, Deming theory
Orateur(s) : D. KOFF (Hamilton, Canada)

09:12 - How I "manage" my team through quality!
Orateur(s) : J.P. Beregi (Nîmes, France)

09:24 - Accreditation of teams in the rest of the quality world
Orateur(s) : F. Thouveny-Paisant (Angers, France)

09:36 - How to register for radiologist team accreditation!
Orateur(s) : C. Chardon (Paris, France)

09:48 - General discussion: Team accreditation: a necessary reality, the basis of our future positioning in radiology
Orateur(s) : O. Seror (Bondy, France), T. Caramella (Nice, France)

Liver contrast echo
17:15 - 17:30
Channel 6, SUV
F. Pigneur (Créteil)

Interventional Oncology: What is needed to develop percutaneous ablations?
17:15 – 18:15
Channel 2

Orateur(s) : F. Cornelis (Paris, France), J.B. Pialat (Lyon, France)

- Identify the pre-requisites,
- Avoiding errors
- Knowing the needs
- Developing the business
- Evaluate your practice

16:30 - Liver ablations
Orateur(s) : M. Barral (Paris, France)

16:40 - Renal ablation
Orateur(s) : C. Marcelin (Bordeaux, France)
16:50 - Lung ablations
Orateur(s) : G. Piana (Marseille, France)

17:00 - Bone ablations
Orateur(s) : A. Kastler (La Tronche, France)

17:10 - Soft tissue removal
Orateur(s) : J. Frandon (Nîmes, France)

General Discussion: Interventional Oncology: What is needed to develop percutaneous ablations?
17:20
Orateur(s) : F. Cornelis (Paris, France), J.B. Pialat (Lyon, France)

Liver contrast echo: Clinical case
17:30 - 18:30
Channel 6, SUV

F. Pigneur (Créteil)

Imaging of mummified or post-thanathopraxy bodies
17:30 - 18:30
Channel 5

Modérateur : D. Ben Salem (Brest, France), L. Fanton (Lyon, France)

17:30 - What the medical examiner can do
Orateur(s) : F. Dedouit (Toulouse, France)

17:45 - The contributions of radiology
Orateur(s) : D. Ben Salem (Brest, France)

18:00 - The sociological point of view
Orateur(s) : V. Souffron (Montricoux, France)

18:15 - General Discussion: Imaging Mummified Bodies or Post-Thanathopraxy
Orateur(s) : D. Ben Salem (Brest, France)

Fortuitous discovery spleen lesions: Radiopathological correlations and what to do about them
18:00 - 19:00
Channel 4

Modérateur : V. Vilgrain (Clichy, France), C. Aubé (Angers, France)

- To know the radiological diagnostic ranges for focal splenic lesions
- Discovering pathological radio-correlations of focal splenic lesions
• Developing a diagnostic strategy for a focal splenic lesion

18:00 - Cystic Neoplasms
Orateur(s) : O. Lucidarme (Paris, France), C. Frédéric (Paris, France)

18:15 - Unenhanced solid tumours
Orateur(s) : V. Laurent (Nancy, France), A. Marchal (Reims, France)

18:30 - Enhanced solid tumours
Orateur(s) : J.P. Tasu (Poitiers, France), C. Delpech-Debiais (Grand Poitiers, France)

18:45 - General Discussion: Course of action
Orateur(s) : V. Vilgrain (Clichy, France), C. Aubé (Angers, France)

Percutaneous Drainage Technique on Simulation Models
18:30 - 19:00
Channel 6, VRI

A. Fohlen (Caen)

SUNDAY October 4

Neurological emergencies: on-call intern's kit
09:00 - 10:00
Channel 3

Modérateur : K. Chaumoitre (Marseille, France), N. Pyatigorskaya (Paris, France)

• To have an overview of the neuroradiological emergencies that can be encountered on call with their diagnostic difficulties, management and technical issues.
• Know how to prioritize the examinations and the seriousness of the injuries found.
• Knowing how to protocol MRIs in the context of the emergency department
• Know the traps and red flags
• Knowing how to communicate in the context of the urgency of the anomalies found.

09:00 - Stroke emergency management by the on-call intern
Orateur(s) : J.F. Hak (Paris, France), X. Carle (Marseille, France), B. Testud (Marseille, France), G. Brun (Marseille, France), H. Brunel (Marseille, France), A. Reyre (Marseille, France), A. Manchon (Marseille, France), J.P. Stellmann (Marseille, France), K. Chaumoitre (Marseille, France), N. Girard (Marseille, France)

09:12 - Acute headaches in the emergency room
Orateur(s) : A. Manchon (Marseille, France), B. Testud (Marseille, France), G. Brun (Marseille, France), H. Brunel (Marseille, France), N. Girard (Marseille, France)

09:24 - How to deal with a suspicion of encephalitis
Orateur(s) : L. Chougar (Paris, France)
09:36 - Non-traumatic spinal emergencies  
*Orateur(s)* : R. Ameli (Lyon, France)

09:48 - General Discussion: How to manage a nerve emergency from application to debriefing  
*Orateur(s)* : K. Chaumoitre (Marseille, France), N. Pyatigorskaya (Paris, France)

**How I do an echo-doppler of the renal arteries (initiation)**  
09:15 - 09:35  
Channel 6, SUV  

O. Helenon (Paris)

**Accreditation: for those who want to know more**  
09:15 - 10:15  
Channel 5  

*Responsable* : J.P. Beregi (Nîmes, France)  
*Modérateur* : L. May-Michelangeli (Paris, France), J.P. Beregi (Nîmes, France)

- Deepen your knowledge in risk management  
- To know the lessons of the accreditation of radiology teams and their evolutions.  
- To know the benefits of database building for the quality and security of our practices.  
- Peer review is a guarantee of an evolutionary and non-sanctioning practice.

10:30 - Expert Analysis of IEAS  
*Orateur(s)* : O. Seror (Bondy, France)

10:42 - Evolution of the accreditation of teams with ASN obligations  
*Orateur(s)* : J.F. Chateil (Bordeaux, France)

10:54 - What is the link between the accreditation of teams and the PoC Dose of DRIM France IA?  
*Orateur(s)* : A. Luciani (Créteil, France)

11:06 - CANADA: peer learning and the concept of "just culture": learning from your mistakes without blame  
*Orateur(s)* : D. KOFF (Hamilton, Canada), K. Finlay (Hamilton, Canada), Y. Kagoma (Hamilton, Canada), J. Castelli (Hamilton, Canada)

11:18 - General Discussion: Data Sharing and Fear of Punishment: A French Evil  
*Orateur(s)* : J.P. Beregi (Nîmes, France), L. May-Michelangeli (Paris, France)

**YOUR JFR : 20/20 Imagerie gynécologique oncologique**  
09:15 - 10:15  
Channel 2
• To present and illustrate the O-rads classification in ovarian cancer.
• Present and illustrate the changes in the new FIGO classification for cervical cancer.
• To present and illustrate the contribution of the MRI "BETTER" control analysis to differentiate leiomyomas from leiomyosarcomas.
• Expose and illustrate the pitfalls of FDG PET/CT in gynecologic oncology imaging

09:15 - Up-to-date in ovarian cancer imaging and staging: O-rads
Orateur(s) : I. Thomassin-Naggara (Paris, France)

09:30 - Cervix cancer new FIGO classification: What does that change?
Orateur(s) : X. Hua-Dan (Pékin, Chine)

09:45 - Does "BETTER" check help to differentiate uterine leiomyosarcoma from leiomyoma?
Orateur(s) : S. Nougaret (Montpellier, France)

10:00 - PET/CT pitfalls in gynecologic oncologic imaging
Orateur(s) : A. Rockall (Londres, Royaume-Uni)

The polytrauma patient bleeding
09:30- 10:30
Channel 4

Responsable : V. Le Pennec (Caen, France)
Modérateur : J.P. Pelage (Caen, France), M. Rodière (Grenoble, France)

• Define classifications, diagnostic imaging techniques and the organization of management of the polytrauma patient.
• Description, classification and diagnostic and interventional management of aortic trauma.
• Description, classification, and diagnostic and interventional management of pelvic and urinary traumas.
• Description, classification and diagnostic and interventional management of trauma to the liver and spleen

09:15 - The polytraumatized person: description, classification and management
Orateur(s) : J.P. Pelage (Caen, France)

09:27 - Aortic Lesions: Description, Classification and Management
Orateur(s) : M. Rodière (Grenoble, France), C. MARTIN (Grenoble, France), C. Sengel (Grenoble, France), A. Jankowski (Grenoble, France), P. BOUZAT (Grenoble, France), G. Ferretti (Grenoble, France), F. Thony (Grenoble, France)

09:39 - Traumatic Urinary and Pelvic Injuries: Description, Classification and Management
Orateur(s) : V. Le Pennec (Caen, France), A. Fohlen (Caen, France), J.B. Sautière (caen, France), J.P. Pelage (Caen, France)
09:51 - Traumatic Liver and Splenic Injuries: Description, Classification and Management

Orateur(s) : A. Fohlen (Caen, France)

10:03 - General Discussion: The Polytraumatized Bleeder
Orateur(s) : J.P. Pelage (Caen, France), M. Rodière (Grenoble, France)

Artificial Intelligence and Neurological Imaging
10:00-11:15
Channel 6
Responsable : A. Krainik, F. Cotton
Modérateur : A. Attye (Grenoble), A. Lecler (Paris)

10:00 - RN in Neuro-Oncology
S. Ammari (Jewish City)

10:15 - AI in Cerebral Ischemia
L. Duron (Paris)

10:30 - Predicting age in brain MRI using AI
Mr. Gautherot (Lille)

10:45 - Round Table: AI and Neurological Imaging
M. Gautherot (Lille), A. Attye (Grenoble), L. Duron (Paris), A. Lecler (Paris), S. Ammari (Villejuif)

Radiologists and social networks (Twitter, Instagram, Facebook): the turn not to be missed
10:45 - 11:45
Channel 5

Modérateur : T. Jacques (Lille, France), J. Gregory (Paris, France)

- Understand the strategic and media importance of the active presence of radiologists on social networks
- Understand how Twitter works and the issues surrounding it.
- Understand Instagram’s mode of operation and specific issues
- Understand how Facebook works and the issues that are specific to it.

10:45 - General problems and strategic issues
Orateur(s) : T. Jacques (Lille, France)

10:47 - Twitter: Feedback and perspectives
Orateur(s) : M. Ohana, (Strasbourg, France)
Predictive Imaging of Neuroblastoma
10:45 - 11:45
Channel 3

*Modérateur*: H. Brisse (Paris, France)

- Knowing the main prognostic factors for neuroblastoma
- To know how to define their locations according to a classification correlated to biology.
- Knowing how to recognize surgical risk factors
- Know how to use the INRGSS (International Neuroblastoma Risk Group Staging System) staging system.

10:45 - Prognostic factors for neuroblastoma and radio-biological correlations
*Orateur(s)*: H. Brisse (Paris, France)

11:00 - Surgical Risk Factors for Neuroblastomas
*Orateur(s)*: L. Cardoen (Paris, France)

11:15 - Neuroblastoma surgery in 2020
*Orateur(s)*: S. Sarnacki-Feray (Paris, France)

11:30 - Moderation and general discussion
*Orateur(s)*: H. Brisse (Paris, France), L. Cardoen (Paris, France), S. Sarnacki-Feray (Paris, France)

Tumor embolizations
11:00 - 12:00
Channel 2

*Modérateur*: H. Kobeiter (Créteil, France), A. Fohlen (Caen)

- To understand the therapeutic goals of tumor embolization.
- Knowing how to adapt the therapeutic agent to the type of tumor to be embolized
- To know the local and general reaction after a tumor embolization
- To know the new therapeutics that can be associated with tumor embolization and their results.

11:00 - Immunotherapy as a replacement or in association with embolization
L. Tselikas (Villejuif)

11:12 - “Ideal” characteristics of particles for IR in oncology
B. Guiu (Montpellier)

11:24 - Embolotherapy for liver cancer: Changes at the molecular level and New concepts in embolotherapy for liver cancer
J. Gueschwind (Yale, USA)

11:36 - Rationale of the association between embolization and tumor ablation "when and how".
A. Denys (Lausanne, Switzerland)

11:48 - General Discussion: Tumor Embolization
J. Gueschwind (Yale, USA), A. Fohlen (Caen), L. Tselikas (Villejuif), H. Kobeiter (Créteil), A. Denys (Lausanne, Switzerland), B. Guiu (Montpellier)

France meets Brazil, Chile and Colombia - Diffuse Interstitial Lung Disease Imaging
11:00 - 12:00
Channel 4

Responsable : A. Khalil (Paris, France)

- To know the semiology of the elementary signs in CT scan of diffuse interstitial pneumopathies (PID)
- To know the anatomical and anatomo-pathological basis of the formation of the CT image of the elementary signs of PIDs
- Know the imaging of acute and chronic hypersensitivity pneumopathy.
- To know how to reason in front of a PID and to look for elements that do not favour an underlying systemic pathology.

11:00 - Semiology of basic CT signs of diffuse interstitial lung disease - Semiologie des signes TDM élémentaires -Semiology of basic CT signs
Orateur(s) : A. Khalil (Paris, France), M.P. Debray (Paris, France)

11:15 - Image aspects of hypersensitivity pneumonitis (Image aspects of hypersensitivity pneumonitis)
Orateur(s) : G. Meirelles (São Paulo, Brésil)

11:30 - Interstitial lung Manifestations in collagen-vascular disease
Orateur(s) : P. Bitar (Santiago, Chili)

11:45 - Imaging Diffuse Interstitial Pneumonitis: A Colombian Radiologist's Perspective
Orateur(s) : L. Arias (Bogota, Colombie)

How I do an echo-doppler of supra-aortic vessels (improvement)
11:45 - 12:30
Channel 6, SUV

J.-C. Sadik (*Paris*)

**Confrénce Antoine Béclère: Medical imaging around the conquest of space: research and innovation**
12:00-12:45
Channel 1

**Semiology of the suffering nerve. Ductal syndromes in imaging**
14:00 - 15:00
Channel 2

*Modérateur*: V. Vuillemin (Paris, France), G. Corcos (Paris, France)

- Specify the semiology in imaging of the peripheral nerve in pain
- Know the signs of median nerve pain in the wrist and know how to look for them in ultrasound or MRI.
- Know the signs of ulnar nerve pain in the elbow and know how to look for them in ultrasound and MRI scans.

14:00 - Semiology in Imaging the Suffering Nerve  
*Orateur(s)*: V. Vuillemin (Paris, France)

14:20 - Median nerve application  
*Orateur(s)*: E. Sibileau (Paris, France)

14:40 - Ulnar nerve application  
*Orateur(s)*: G. Corcos (Paris, France)

**Digestive Imaging Clinical Case Session: Cystic Lesions of the Pancreas**
14:00-15:00
Channel 4

*Modérateur*: J. Gregory (*Paris*), M. Ronot (*Clichy*)

- Diagnostic approach to a cystic lesion of the pancreas.
- Knowing how to use a precise interpretation plan.
- Knowing the trap images.

Course of the session:
The public will be able to participate by voting during this interactive session, in order to avoid the pitfalls of the clinical cases proposed by each duo. The case presentations will be followed by a theoretical clarification on each of the topics discussed.
Singularities of SARS VOC 2 infection in so-called geriatric patients: clinical peculiarities, organizational impacts in Imaging, societal repercussions
14:00 - 15:00
Channel 3

Modérateur : E. Meyblum (Créteil, France), E. Benattar (Nice, France)

Old age alone represents one of the major risk factors for the severity of COVID-19 disease and concentrates the majority of deaths.

The main objectives of this session are:

- To know the forms of clinical presentations of COVID-19 most frequently observed in geriatrics, sometimes atypical, in order to best guide the investigations necessary for appropriate medical management.
- To present the indispensable adaptations of our organizations to the medical management of COVID-19 in elderly patients.
- Integrate the societal consequences of COVID-19 in geriatrics into our medical thinking

14:00 - Clinical presentations of SARS VOC 2 infection in geriatrics:
Orateur(s) : M. Laurent (Créteil, France)

14:15 - Organisation of Imaging support
Orateur(s) : A. Chevallier (Paris, France)

14:30 - Societal aspect
Orateur(s) : M. Villez (Créteil, France), D. Argoud (Créteil, France)

14:45 - General Discussion: COVID in Geriatrics
Orateur(s) : E. Meyblum (Créteil, France), E. Benattar (Nice, France)

Artificial Intelligence and Thoracic Pathologies: State of the Art and Perspectives
14:00-15:15
Channel 6

Modérateur : A. Khalil (Paris), G. Ferretti (Grenoble)

- Describe the expectation of the RN radiologist
- Place of AI in the management of patients in thoracic oncology (perspectives, diagnosis, follow-up and prognosis)
- Place of AI in the management of Diffuse Interstitial Pneumopathies (perspectives, diagnosis, follow-up and prognosis)
- Discussion with builders on current projects

14:00 - Expectations of the Artificial Intelligence Chest Radiologist
A. Khalil (Paris)

14:15 - Artificial Intelligence and Thoracic Tumor Pathologies
G. Chassagnon (Paris)

14:30 - Artificial Intelligence and Diffuse Interstitial Pathologies
P.-Y. Brillet (Bobigny)

14:45 - Round table: AI and thoracic pathologies
A. Khalil (Paris), G. Ferretti (Grenoble), P.-Y. Brillet (Bobigny), G. Chassagnon (Paris)

Understanding (at last!) the mysteries of radiomics
14:15 - 15:15
Channel 5

Modérateur : A. Lecler (Paris, France), L. Fournier (Paris, France)

- Understand the basics of radiomics in the analysis of radiological images.
- Know the limitations of radiomics, its strengths and weaknesses.
- What place for Artificial Intelligence in radiomics?

14:17 - Radiomics for dummies!  
Orateur(s) : A. Lecler (Paris, France)

14:32 - Radiomics: how not to fall on the dark side of the force!  
Orateur(s) : F. Orlhac (Orsay, France)

14:47 - Artificial and Radiomic Intelligence: duel in the couple  
Orateur(s) : L. Duron (Paris, France)

15:02 - Moderation and general discussion  
Orateur(s) : A. Lecler (Paris, France), L. Fournier (Paris, France)

Sedation and Integrative Medicine in Interventional Radiology
15:15 - 16:15
Channel 3

Modérateur : F. Cornelis (Paris, France), M. Barral (Paris, France)

The objectives are to learn about sedation techniques in interventional radiology, and to present the results in different clinical situations. Integrative medicine brings
together several complementary medical approaches in a given clinical situation. It must combine various therapeutic practices with the patient's aspirations, in agreement with the medical team and paramedical practitioners. Beyond pharmacological sedation and clinical hypnosis, digital sedation could reduce the anxiety and pain associated with interventional radiology procedures.

15:15 - What are the means for effective sedation in Interventional Radiology?  
*Orateur(s):* A. Bosteels (Bruxelles, Belgique)

15:30 - Integrative Medicine in Interventional Senology  
*Orateur(s):* V. Mendez (Bruxelles, Belgique)

15:45 - Clinical Applications in Interventional Oncology  
*Orateur(s):* M. Barral (Paris, France), M. Najdawi (Paris, France)

16:00 - Moderation and general discussion  
*Orateur(s):* F. Cornelis (Paris, France), M. Barral (Paris, France)

**Breast Cancer Screening: Where are we after the pandemic?**  
15:30 - 16:30  
Channel 2  

*Responsable:* L. Ceugnart (Mons-en-Barœul, France), C. Colin (Lyon, France)

15:30 - HAS Tomosynthesis report and screening  
A. Cohen-Akenine (Paris)

15:42 - Quality control in Tomosynthesis: continuation and end?  
P. Heid (Marseille)

15:54 - Impact of the COVID19 health crisis on organized breast cancer screening in the Ile-de-France and Hauts-de-France regions  

16:06 - SFR-SIFEM University of Lyon survey on radio-induced risks in mammography  
M. Bourguignon (Fontenay-aux-Roses)

16:18 - General Discussion: Breast Cancer Screening: Where are we after the pandemic?  
M. Bourguignon (Fontenay-aux-Roses), A. Cohen-Akenine (Paris), P. Heid (Marseille), C. Colin (Lyon), L. Ceugnart (Mons-en-Barœul)

**The dual energy scanner: a must in abdominal imaging?**  
15:30 - 16:30  
Channel 4  

*Modérateur:* E. Danse (Bruxelles, Belgique)
• To take stock of the contribution of the double energy technique in the approach of intestinal affections of the adult patient
• To consider the contribution of dual energy in the imaging of peritoneal metastases, based on pre-clinical photon-counting CT studies.
• Illustrating the contribution of the dual-energy scanner to the imaging of focal liver damage: what it changes

15:15 - CT Double énergie et intestinale
Orateur(s) : V. Mellnick (Saint-Louis, États-Unis)

15:30 - Peritoneum Imaging and Dual Energy CT
Orateur(s) : P. Rousset (Pierre-Bénite, France)

15:45 - Imaging of focal liver lesions with dual energy CT scanners
Orateur(s) : S. Mulé (Créteil, France)

16:00 - General Discussion: Can dual-energy CT be dispensed with for abdominal conditions in the adult patient?
Orateur(s) : E. Danse (Bruxelles, Belgique)

How I do an echo-doppler of the renal arteries (improvement)
15:45 - 16:20
Channel 6, SUV

J.-M. Correas (Paris)

Clinical Case Session: My best on-call cases: Osteoarticular emergencies
15:45 - 16:45
Channel 5

Responsable : M. Faruch Bilfeld (Toulouse, France)

15:30 - Commented files in imaging of osteo-articular emergencies

Ultrasound techniques for the exploration of superficial lymph nodes in cancerology
16:30 - 16:45
Channel 6, SUV

S. Bidault (Villejuif)

Imaging the lacrimal system: how not to end up in tears?
16:45 - 17:45
Channel 3
Modérateur : G. Poillon (Paris, France), F. Benoudiba (Le Kremlin-Bicêtre, France)

- To know the anatomy of the lacrimal system, from the gland to the lower meatus.
- To know the main indications and the protocols for carrying out the various imaging examinations, in particular the dacryoscanner.
- Know how to recognize the main pathologies affecting the gland and the tear ducts.
- Master the main principles of therapeutic management

16:30 - Imaging of the lacrimal system: anatomical reminders and exploration protocols
Orateur(s) : A. Collin (Paris, France)

16:45 - Imaging of the lacrimal system: atlas of the main pathologies
Orateur(s) : G. Poillon (Paris, France)

17:00 - Imaging the Tear System: A Surgeon's Perspective
Orateur(s) : W. El Bakkouri (Paris, France)

17:15 - Moderation and summary of the session
Orateur(s) : G. Poillon (Paris, France), F. Benoudiba (Le Kremlin-Bicêtre, France)

How I explore the little nerves of the ankle
17:00 - 17:20
Channel 6, SUV

J.-L. Brasseur (Paris)

France meets Argentina, Mexico and Uruguay - Digestive oncology imaging
17:00 - 18:00
Channel 4

Responsable : F. Boudghene (Paris, France), J.M. Correas (Paris, France)
Modérateur : J.M. Correas (Paris, France)

15:15 - Imaging of the Esophageal - Gastric Union Cancer » (Estudio por imágenes del Cáncer de la Unión Esófago Gástrica (UEG)
Orateur(s) : A. Marangoni (Buenos Aires, Argentine)

15:45 - Image Biomarkers of GI Neoplasm
Orateur(s) : P. Pedetti (Montevideo, Uruguay)

16:00 - Removal of Surrenal Tumours
Orateur(s) : J.M. Correas (Paris, France)
Care of the child and companions in radiopediatrics
17:00 - 18:00
Channel 2

Modérateur : C. SEMPERE EUSTACHE (Paris, France), B. Morel (Tours, France)

- Evolving in patient management
- Increase knowledge of pediatric protocols
- Identify good practices in radiopediatrics

17:00 - Pediatric MRI and Cinema Vision: An Enhancing Tool for the Patient Experience
Orateur(s) : X. bichon (Villejuif, France)
Auteur(s) : X. bichon (Villejuif, France), N. Markarian (Villejuif, France), A. Vincent (Villejuif, France), O. Cornu (Villejuif, France), S. Helies (Villejuif, France), N. Flor (Villejuif, France), C. Balleyguier (Villejuif, France), S. Moalla (Tunis, Tunisie)

17:12 - Specific management of pediatric MRI patients
Orateur(s) : L. VERREUX (Corbeil-Essonnes, France)

17:24 - Craniostenosis on CT
Orateur(s) : T. CHIRON (Paris, France), A. LEITAO (Paris, France)

17:36 - Postmortem and post-treatment fetal CT angiography: feedback
Orateur(s) : X. de Spiegeleire (Woluwe-Saint-Lambert, Belgique)
Auteur(s) : X. de Spiegeleire (Woluwe-Saint-Lambert, Belgique), J. Vanhaebost (Woluwe-Saint-Lambert, Belgique), E. Coche (Woluwe-Saint-Lambert, Belgique)

17:48 - General discussion: Care of the child and carers in Radiopedia
Orateur(s) : B. Morel (Tours, France), C. SEMPERE EUSTACHE (Paris, France)

Presentation of the microcatheter for reflux control "Sequare".
17:45 - 18:15
Channel 6, VRI

H. Kobeiter (Créteil)

JFR 2020 - Tribute Film
18:00 - 18:30
Channel 1
MONDAY October 5

The severe acute abdomen: Everyday tips for a reliable diagnosis
08:00 - 09:00
Channel 4

Modérateur : I. Millet (Montpellier, France)

- To know the main causes of non-traumatic hemoperitoneum
- To know the semiological elements allowing the detection of a digestive perforation site.
- Knowing how to recognize the subtle signs of digestive ischemia
- Know the elements of severity guiding the treatment

08:00 - Severe acute abdomen: When it bleeds...
Orateur(s) : A. Paisant (Angers, France)

08:15 - Severe acute abdomen: When it punctures
Orateur(s) : I. Millet (Montpellier, France)

08:30 - When it necroses
Orateur(s) : E. Delabrousse (Besançon, France)

08:45 - Moderation and general discussion
Orateur(s) : I. Millet (Montpellier, France), A. Paisant (Angers, France), E. Delabrousse (Besançon, France)

Female infertility imaging and MAPs
08:00 - 09:00
Channel 2

Modérateur : C. Bordonne (Paris, France), M. BRZAKOWSKI (Paris, France)

- Importance of the initial ultrasound and hysterosalpingographic assessment
- Rules for the prescription and interpretation of the secondary MRI examination
- Remind the importance of knowing the stages in MAP: primary or secondary infertility check-up, repeated miscarriages, implant failure, etc. in order to offer appropriate imaging and reporting.

08:00 - Ultrasound / Hysterography / Hysterosonography in infertility

08:15 - Pelvic MRI in infertility
Orateur(s) : L. Riviere (Paris, France), M. Omri (Paris, France), C. Bordonne (Paris,
Manipulators in Interventional Radiology
08:00 – 09:00
Channel 5

Modérateur : M. Berhili (Paris, France), B. Thiriat (Nancy, France)

- Specify compliance in interventional radiology
- Share experiences on technical developments
- Update your professional knowledge

10:45 - Pushing the limits of interventional radiology: is it still relevant?
Orateur(s) : M. Barral (Paris, France)

10:57 - Monitoring and Optimization of X-ray doses from CELHs at Clermont-Ferrand University Hospital
Orateur(s) : V. Robert Huant (Clermont-Ferrand, France)
Auteur(s) : V. Robert Huant (Clermont-Ferrand, France), J. Guersen (Clermont-Ferrand, France), A. Gallon (Clermont-Ferrand, France), P. Chabrot (Clermont-Ferrand, France), L. Boyer (Clermont-Ferrand, France), L. Cassagnes (Clermont-Ferrand, France)

11:09 - Punctures under spectral scanner 2.0
Orateur(s) : C. Loiseau (Charleville-Mézières, France), C. Duponcheel (Charleville-Mézières, France)
Auteur(s) : C. Loiseau (Charleville-Mézières, France), C. Duponcheel (Charleville-Mézières, France), V. Pollet (Charleville-Mézières, France), A. Brasseur (Charleville-Mézières, France), H. Quehen (Charleville-Mézières, France), M. Grosselin (Charleville-Mézières, France)

11:21 - Positive Communication in Interventional Imaging
Orateur(s) : V. Jonet (Reims, France), V. SEGOVIA (Reims, France)

11:33 - General Discussion: MERM in Interventional Radiology
Orateur(s) : M. Berhili (Paris, France), B. Thiriat (Nancy, France)

Responding to the COVID-19 Pandemic: An International Assessment of the Imaging Response
08:30 - Imaging response to the COVID pandemic in the USA
A. Bankier (Boston, USA)

08:42 - Imaging response in the COVID pandemic in Italy
M. Silva (Parma, Italy)

08:54 - Imaging response in the COVID pandemic in Germany
J. Dinkel (München, Germany)

09:06 - Imaging response in the COVID pandemic in Lebanon
T. Smayra (Beirut, Lebanon)

09:18 - Roundtable: Reinventing the Imaging Response to Infectious Threats
M. Silva (Parma, Italy), M. Ohana, (Strasbourg), M.-P. Revel (Paris), T. Smayra (Beirut, Lebanon), J. Dinkel (München, Germany), M. Lederlin (Rennes)

Pose d'un PICC (Peripherally Inserted Central Catheter) sur modèle de simulation
09:00 - 09:30
Chaîne 6, VRI

A. Fohlen (Caen)

Access of start-ups to public health markets
09:30 - 11:30
Channel 5, Artificial Intelligence Forum

Moderator: J. Baussand (Paris), J.-Y. Gauvrit (Rennes)

09:30 – Introduction
E. HABRAN (Paris)

10:00 - Round table: access of start-ups to public health markets

11:00 - Prix coup de coeur INNOVATION des JFR 2019: HypnoVR
L. Schell (Paris)

11:05 - Feedback from the Prix Coup de Coeur INNOVATION des JFR 2017:
Basecamp Vascular
R. White (Paris)

11:10 - Presentation of the 2020 Innovation Award
J. Baussand (Paris), J.-Y. Gauvrit (Rennes)

11:14 - Winner of the "Coup de coeur Innovation 2020" Award
J. Baussand (Paris), J.-Y. Gauvrit (Rennes)

11:16 - Presentation of the winner of the "Coup de coeur Innovation 2020" award

11:22 - Winner of the "2020 Innovation Award".
J. Baussand (Paris), J.-Y. Gauvrit (Rennes)

11:24 - Presentation of the Winner of the "Prix Innovation 2020".

Percutaneous gastrostomy (PEG) placement on simulation model
09:45 - 10:00
Channel 6, VRI
T. De Baere (Villejuif)

Morphological and Functional Imaging of the Diaphragm
09:45 - 10:45
Channel 4

Responsable : B. Ghaye (Bruxelles, Belgique), M. Elhajjam (Boulogne-Billancourt, France), R. Carlier (Garches, France)
Modérateur : B. Ghaye (Bruxelles, Belgique), R. Carlier (Garches, France)

- Recall the anatomy of the diaphragm
- To know the different ways of exploring the diaphragm
- Knowing how to perform a static and dynamic ultrasound of the organ
- Master the MRI protocol to analyze the diaphragm
- To know the interest of MRI in the early diagnosis of neuro-muscular diseases.

09:15 - Diaphragmatic anatomy useful in imaging
Orateur(s) : A. Mekki (Paris, France)

09:30 - Radiography, Digraphy and Diaphragmatic Ultrasonography
Orateur(s) : D. Mompoint (Garches, France)

09:45 - Morphological and functional MRI protocol of the diaphragm of myopathies
Orateur(s) : M. Elhajjam (Boulogne-Billancourt, France)

10:00 - General Discussion: What is the role of imaging in the assessment of myopathies?
Orateur(s) : B. Ghaye (Bruxelles, Belgique), R. Carlier (Garches, France)
French response to a pandemic
10:00 - 11:10
Channel 1

Modérateur : J.P. Beregi (Nîmes, France), L. Boyer (Clermont-Ferrand, France)

10:00 - Regional response: link CH/CHU - Strasbourg/Mulhouse
Orateur(s) : M. Ohana, (Strasbourg, France)

10:15 - ESPIC - St Joseph
Orateur(s) : M. Zins (Paris, France)

10:30 - Libéral
Orateur(s) : R. Lavayssiere (Sarcelles, France)

10:45 - Round table: What are the challenges for tomorrow’s imaging in France?
Orateur(s) : S. MOYNAT (Paris, France)

11:00 - Remise du prix SHAM
Orateur(s) : J.P. Beregi (Nîmes, France)

Exploration of the biceps at the elbow
10:30 - 10:45
Channel 6, SUV

R. Campagna (Paris)

Neuroradiological Imaging Interpretation Session
10:30 - 11:30
Channel 3

Responsable : M. Edjlali (Paris, France), N. Pyatigorskaya (Paris, France)

During this session 4 neuroimaging experts will be divided into two teams and will compete on neuroimaging issues. The experts will argue the semiology of the observed neurological lesions, the diagnostic range to be evoked and the most probable diagnosis they will have retained. The reasoning integrating the MRI data will be presented in detail and step by step until the final diagnosis. The public will also be able to measure themselves against the cases thanks to the interactive system with voting in the room.

10:30 - Annotated files in neurological imaging
Orateur(s) : L. Mondot (Nice, France), A. Lecler (Paris, France), C. Mellerio (Paris, France), A. Gaultier (Nantes, France)

Dual energy spectral scanner and osteo-articular applications
11:00 - 12:00
Channel 2
• To know the basic physical principles of the dual energy scanner and the specificities of the different manufacturers.
• To know the established clinical applications of the dual energy scanner in the osteo-articular specialty.
• To know the clinical applications in development of the dual energy scanner in the osteo-articular specialty.

11:00 - Simplified physical bases of the dual-energy scanner and specificities of the different manufacturers
*Orateur(s)*: L. Taihi (Paris, France), S. Guinebert (Paris, France), L. Perronne (Paris, France), C. Phan (Paris, France), E. Sibileau (Paris, France), V. Bousson (Paris, France)

11:15 - Dual energy scanner and microcrystalline diseases

11:30 - Applications of the dual energy scanner in osteo-articular (excluding microcrystalline diseases), and Work in Progress
*Orateur(s)*: C. Phan (Paris, France), L. Taihi (Paris, France), L. Perronne (Paris, France), S. Guinebert (Paris, France), E. Sibileau (Paris, France), V. Bousson (Paris, France)

11:45 - General Discussion: Dual Energy Spectral Scanner and Osteoarticular Applications
*Orateur(s)*: V. Bousson (Paris, France), C. Phan (Paris, France)

Emboliing agents: gelatin, coils, plug, glue and particles
14:00 - 14:30
Channel 6, VRI

J. P. Pelage (Caen)

Prostate imaging: technique, interpretation
14:00 - 15:00
Channel 2

*Modérateur*: R. Renard Penna (Paris, France)

• To know the technique and protocol of acquisition of the Prostatic MRI.
• To know the anatomy of the prostate and its variants.
• To know the PI-RADS V2.1 score, to know how to apply it according to the zonal anatomy.
• Know the predictive signs of extension to the periprostatic space, seminal vesicles and ganglion chains.

14:00 - Technics- prostatic anatomy
*Orateur(s)*: P. Puech (Lille, France)
14:15 - Score PIRADS V2.1  
*Orateur(s)*: O. Rouviere (Lyon, France)

14:30 - Loco-regional extension  
*Orateur(s)*: R. Renard Penna (Paris, France)

14:45 - Moderation and general discussion  
*Orateur(s)*: R. Renard Penna (Paris, France), P. Puech (Lille, France), O. Rouviere (Lyon, France)

Dissemination of recommendations / Towards accelerated scientific collaboration  
14:00-15:00  
Channel 1  
Responsable : J.-P. Beregi, L. Boyer  
Modérateur : O. Langeron *(Paris)*, D. Sirinelli *(Tours)*

14:00 - Coordination and dissemination of recommendations in times of crisis  
A. Cotten (Lille)

14:12 - Hot production of SIT recommendations  
M. Lederlin (Rennes)

14:24 - HAS - Comments on the recommendations  
C. REVEL-DELHOM (Paris)

14:36 - The point of view of the French Society of Hospital Hygiene  
D. Lepelletier (Nantes)

14:48 - Round table: How to improve? How to make future recommendations? Why make discrepancies?  
D. Lepelletier (Nantes), O. Langeron (Paris), C. REVEL-DELHOM (Paris), D. Sirinelli (Tours), J.-P. Beregi (Nîmes), A. Cotten (Lille), M. Lederlin (Rennes), L. Boyer (Clermont-Ferrand)

Your JFR: Predicting imaging  
14:30 - 15:30  
Channel 4  
*Modérateur* : D. Mandry (Nancy, France), J.F. Deux (Créteil, France)

14:30 - Aortic stiffness tells your age!  
*Orateur(s)*: A. Redheuil (Paris, France)

14:50 - MINOCA: Non-obstructive CAD doesn’t mean no MI!  
*Orateur(s)*: C. HIGA NOMURA (São Paulo, Brésil)
15:10 - The DISCHARGE trial: How cCTA may change your prognosis!
Orateur(s) : M. Dewey (Berlin, Allemagne)

Manipulators and emergency situations in Imaging
15:00 - 16:00
Channel 5

Modérateur : T. Jacques (Lille, France), J. Le Goazigo (Paris, France)

- Highlighting medical and paramedical collaboration
- Harmonizing professional practices
- Optimize patient management

14:00 - Imaging of the polytrauma patient, from diagnosis to therapy
Orateur(s) : J. Gregory (Paris, France), S. Frémy (Paris, France)

14:12 - Emergency Musculoskeletal MRI
Orateur(s) : T. Jacques (Lille, France), F. KRYSZEWSKI (Lille, France)

14:24 - Emergency brain MRI
Orateur(s) : I. LEONARD-LORANT (Strasbourg, France), M. ECKERT (Strasbourg, France), C. Dreyer (Strasbourg, France)

14:36 - Alert: endovascular pacemaker on MRI.
Orateur(s) : C. Cohen (Tours, France), F. Hubert (Tours, France)

14:48 - Alert: endovascular pacemaker on MRI.
Orateur(s) : T. Jacques (Lille, France), J. Le Goazigo (Paris, France)

Radial approach in interventional radiology
15:15 - 15:30
Channel 6, VRI

J. Caroff (Le Kremlin Bicêtre)

Percutaneous removal of malignant tumors of the spine
15:30 - 16:30
Channel 2

Modérateur : F. Cornelis (Paris, France), A. Kastler (La Tronche, France)

- Know the toolbox available in Interventional Oncology for the treatment of malignant spinal tumors.
- Discuss the results in terms of efficacy and tolerability.

15:15 - Radio Frequency and Microwave
Orateur(s) : A. Kastler (La Tronche, France), B. Kastler (Paris, France)
Data in the Pandemic Era
15:45 - 17:15
Channel 1

*Responsable*: P. Champsaur (Marseille, France), M. Zins (Paris, France)

15:45 - FIDAC
*Orateur(s)*: L. Boussel (Lyon, France)

16:00 - COVID Network
*Orateur(s)*: G. Herpe (Poitiers, France)

16:15 - Artificial Intelligence and COVID
*Orateur(s)*: A. Jacquier (Marseille, France)

16:30 - STOIC
*Orateur(s)*: M.P. Revel (Paris, France)

16:45 - Round table: Research accelerator: what levers for tomorrow?

Preparation of the lipiodol-chemotherapy mixture for the realization of chemoembolizations
16:00 - 16:10
Channel 6, VRI

T. De Baere (*Villejuif*)

Multimodal Imaging of Giant Cell Arteritis (Horton)
16:00 - 17:00
Channel 3

*Modérateur*: A. Lecler (Paris, France), R. Christine (Paris, France)

- To know the novelties in the clinical management of Giant Cell Arteritis (Horton)
- How to diagnose Giant Cell Arteritis (Horton's) in MRI
- Knowing the contribution of PET-CT for the diagnosis of Giant Cell Arteritis (Horton)

16:00 - Giant Cell Arteritis (Horton): what place for the clinician in 2020?
*Orateur(s)*: T. Sene (Paris, France)
16:20 - Diagnosis of Giant Cell Arteritis (Horton) and its complications in imaging.  
*Orateur(s)*: A. Lecler (Paris, France), G. Poillon (Paris, France)

16:40 - Giant Cell Arteritis (Horton): The Contribution of Nuclear Medicine  
*Orateur(s)*: N. Mikail (Paris, France)