

IC2KnoW®

Imaging Cases to Know - Workshops

IC2KnoW - Training and Certification

Goals and achievements

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UMS IRMaGe

Grenoble Institut des Neurosciences



- Increasing demand in imaging (+10%/year)
 - Aging, prevention, imaging performance
 - Population, physicians, radiologists
- Increasing needs in radiologists, technicians, imaging modalities
- Increasing costs
- Development of telemedicine and teleradiology
 - Cost-effectiveness, population coverage (space&time), expertise
 - Challenge medical quality
 - Weaker relationships with physicians and patient
 - Evolving knowledge and performance
 - Reliability → Training & Certification

« Uberizing » medicine



« Uberizing » radiology

DATE	MODALITE	HORAIRES	ETABLISSEMENTS
<i>Mercredi 07/10/2015</i>	<i>Scanner</i>	<i>Nuit</i>	<i>CH SAINT-JUNIEN [RxEye]</i>
<i>Mercredi 07/10/2015</i>	<i>Scanner</i>	<i>Nuit</i>	<i>CH BRIANCON [eRad]</i>
<i>Mercredi 07/10/2015</i>	<i>Scanner</i>	<i>Nuit</i>	<i>CH SAINT-AFFRIQUE [RxEye]</i>
<i>Vendredi 09/10/2015</i>	<i>Scanner</i>	<i>Nuit</i>	<i>CH SELESTAT [eRad]</i>
<i>Vendredi 09/10/2015</i>	<i>Scanner</i>	<i>Nuit</i>	<i>CH VOIRON [RxEye]</i>
<i>Vendredi 09/10/2015</i>	<i>Scanner</i>	<i>Nuit</i>	<i>CH BRIANCON [eRad]</i>
<i>Vendredi 09/10/2015</i>	<i>Scanner</i>	<i>Journée</i>	<i>CH CHOLET - RxEye</i>
<i>Samedi 10/10/2015</i>	<i>IRM</i>	<i>Matin</i>	<i>CH AUXERRE [RxEye]</i>
<i>Samedi 10/10/2015</i>	<i>Scanner</i>	<i>Journée</i>	<i>CH SELESTAT [eRad]</i>
<i>Samedi 10/10/2015</i>	<i>Scanner</i>	<i>Journée</i>	<i>CH BRIANCON [eRad]</i>
<i>Dimanche 11/10/2015</i>	<i>Scanner</i>	<i>Journée</i>	<i>CH BRIANCON [eRad]</i>

- Participants
 - Radiologists, physicians, fellows, residents
- Lecturers
 - Experts in neuroradiology
- Goals
 - To improve and update clinical skills
 - To certify participants' level

- Institutional clients
 - Teleradiology companies
 - Hospitals
 - Universities
 - Health authorities
- Goals
 - To demonstrate excellence in clinical practice
 - Patients, health providers and buyers
 - To maintain radiological income

Towards Hands-on workshop



- Clinical imaging is a demanding practice that requires various and specific theoretical and practical knowledge.
- IC2KnoW® provides a modular diseases' and symptoms' based approach
- Since powerful search engines allow practitioners to easily scope numerous academic resources, theoretical knowledge requires a solid basics, regular information, and curiosity.
- IC2KnoW® provides concise and updated refresher courses with keys to further improve theoretical knowledge.
- Besides theory, practical knowledge requires a long-lasting experience based on exhaustive and repetitive analyses, rewards and ... mistakes.
- IC2KnoW® provides a large selection of fully interactive imaging cases, accessible on professional workstations, to be discussed with specialists.
- IC2KnoW® evaluates individuals' knowledge to better know and master patient's care and dedicated imaging acquisition and analyses, giving each participant an objective expertise level.

- Main modules in neuroradiology
 - Trauma (brain, cranio-facial)
 - Stroke (ischemic, hemorrhage)
 - Tumors
 - Neurodegenerative diseases (Alzheimer's, Parkinson's, encephalopathies,...)
 - Inflammatory and infectious diseases
 - Emergencies
 - Seizures
- 1 module in 1.5 days / 3 modules per week
- 30 participants per workshop
- 2 lecturers / modules

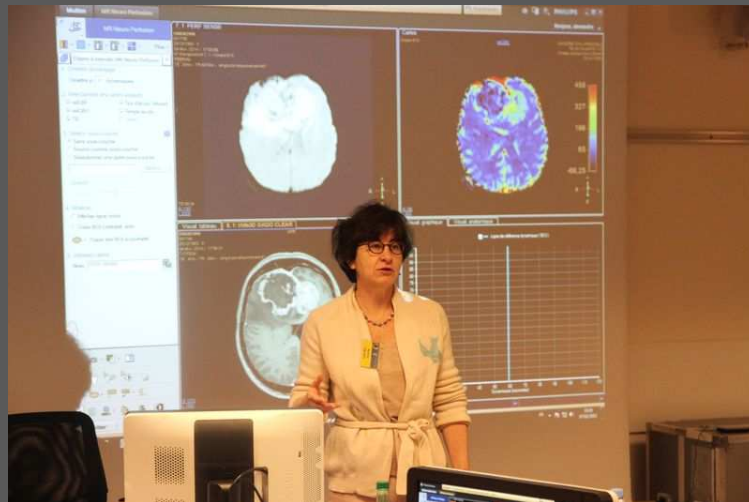
Practical organization

- 15 workstations: 1 for 2 participants
- 1 workstation for lecturer + video projection + microphone (sono)
- Client workstation of software server (ex. Portal) or local dicom viewer with postprocessing (MPR, VR, DWI-DTI (tractography), Perfusion, fMRI,...
- 80-150 cases / module (1000 cases)



Practical organization

- Expert lecturers
- Updated lectures
- Reports key-points
- Case-based discussions



Practical organization

- Close relationships between lecturers and participants



Practical organization

1 workstation for 2 participants

→ Stimulate discussion

→ Share experience



Practical organization

Workstation with full
software package
incl. Advanced
imaging

Pre-, per-, post-
training evaluation

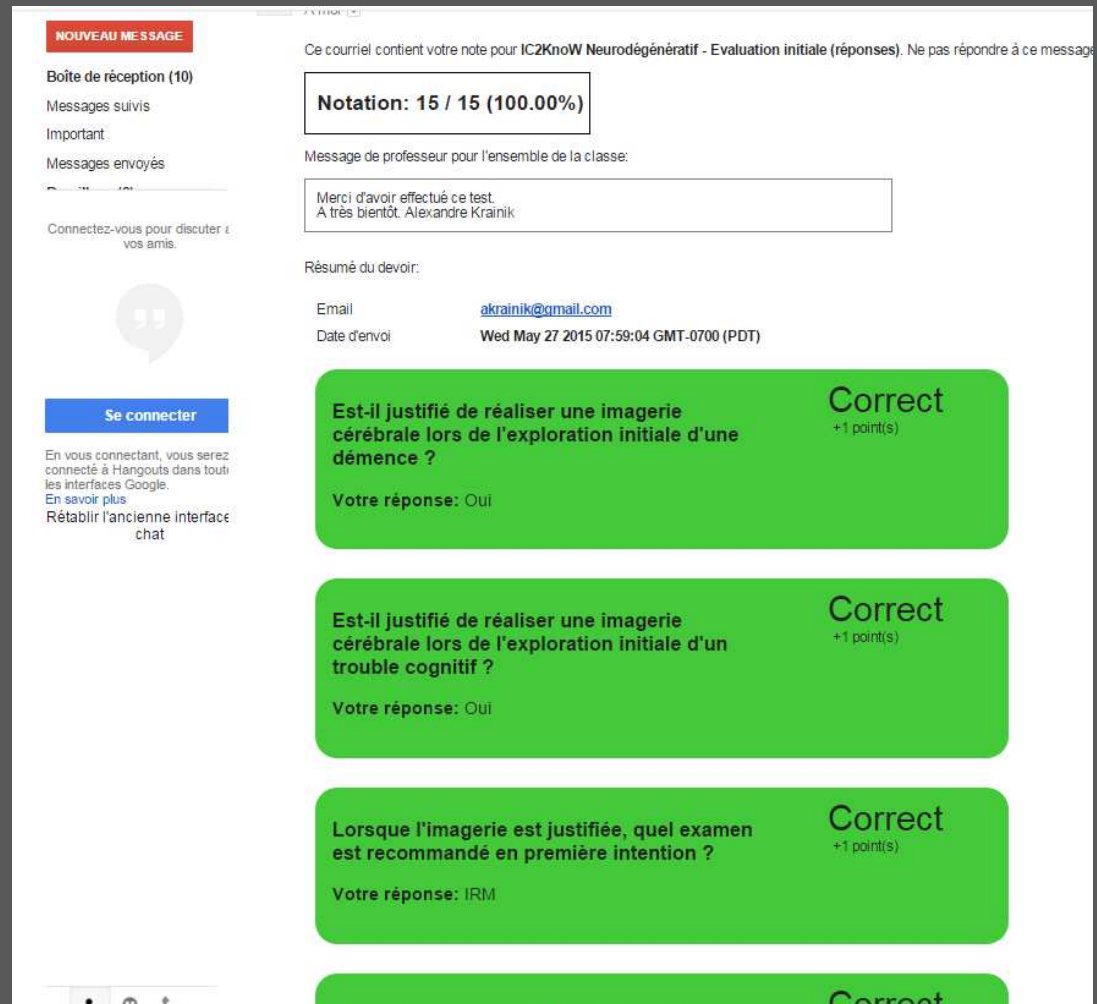
Grading for
certification



Practical organization

Possibilities

- Online visualisation
- Online grading
- Autograding



NOUVEAU MESSAGE

Boîte de réception (10)
Messages suivis
Important
Messages envoyés

Connectez-vous pour discuter à vos amis.

Se connecter

En vous connectant, vous serez connecté à Hangouts dans toutes les interfaces Google.
[En savoir plus](#)
Rétablir l'ancienne interface chat

Ce courriel contient votre note pour **IC2Know Neurodégénératif - Evaluation initiale (réponses)**. Ne pas répondre à ce message.

Notation: 15 / 15 (100.00%)

Message de professeur pour l'ensemble de la classe:

Merci d'avoir effectué ce test.
À très bientôt. Alexandre Krainik

Résumé du devoir:

Email: akrainik@gmail.com
Date d'envoi: Wed May 27 2015 07:59:04 GMT-0700 (PDT)

Est-il justifié de réaliser une imagerie cérébrale lors de l'exploration initiale d'une démence ? **Correct** +1 point(s)
Votre réponse: Oui

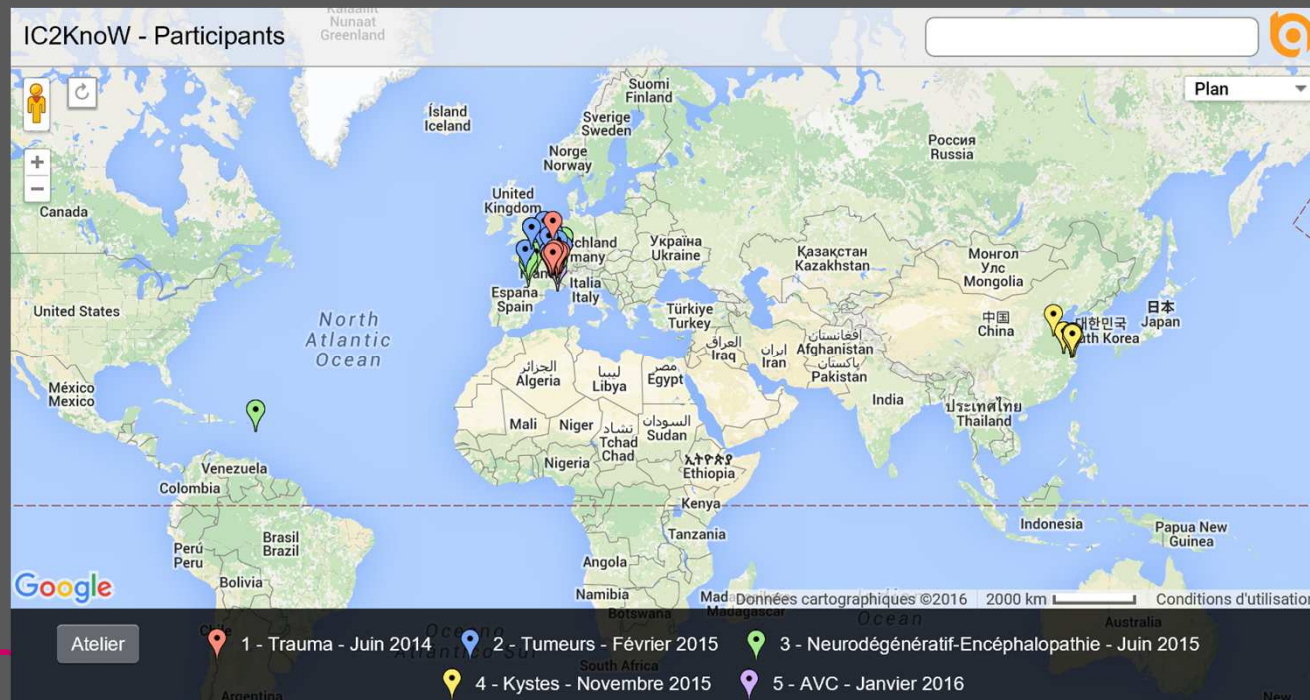
Est-il justifié de réaliser une imagerie cérébrale lors de l'exploration initiale d'un trouble cognitif ? **Correct** +1 point(s)
Votre réponse: Oui

Lorsque l'imagerie est justifiée, quel examen est recommandé en première intention ? **Correct** +1 point(s)
Votre réponse: IRM

Correct

Experience

- 10-years experience in workshop organization in advanced neuroradiology
- Since 2014, 4 workshops for 18 months in the Alps, 1 in China (Suzhou)
- Lecturers from Grenoble, Nantes, Limoges,...
- Growing fame (75 participants from France, Switzerland, Belgium, China)
- 88 % participants rate IC2KnoW as « Excellent workshops »



- IC2KnowW : "I see to know"
- Imaging Cases to know - workshops
- Modular-based training
- Limited participants
- Expert lecturers
- Refresher courses: update and key points for daily practice
- Very large selection of entire imaging examinations
- 1 Workstation for 2 participants to stimulate discussion and share experience
- 1 book gathering lectures, tests, references
- Tests and grading before, during, and after workshops
- Friendly trainings
- Certified trainings (FEPUR et Société Suisse de Radiologie)

- Endorsment
 - Universities
 - Hospitals
 - Societies (SFNR, SFR,...)
 - Insurance companies,...
- Legal structure
 - Association, corporate, ...
- Funding & financial model
 - Région Rhone-Alpes,...
 - Innolife,...
- Technical
 - Database
 - Online service
 - Lectures: MOOC
 - Cases: <http://judith.ujf-grenoble.fr:8080>
 - Test: <http://goo.gl/forms/apzxI5XvJ5>
 - Offline tests (SIDES)
- Material
 - Workstations
 - Software server
 - Tablets,...

[PROGRAMME](#)[INSCRIPTION](#)[PRATIQUE](#)[ARCHIVES](#)[PARTENAIRES](#)

Last workshop : Brain cysts imaging in Suzhou, China

1er atelier en Chine

[LIRE LA SUITE >](#)

Prochain Atelier

Accidents Vasculaires Cérébraux Ischémiques : 29-30 janvier 2016 **COMPLET**

Rochers, Orbites, Sinus - Pathologies inflammatoires et infectieuses : 10-11 juin 2016

Palace de Menthon Saint-Bernard

IC2KnowW

[Cartographie des participants](#)[En savoir plus](#)[Evaluation des participants](#)[Quelques photos](#)[Testez-vous](#)

Contact

[Contactez-nous](#)

Liens

[Neuroradiologie Grenoble](#)[Radioanatomie.com](#)[30 ans d'IRM à Grenoble](#)

Imagerie des Kystes Intra-Crâniens

颅内囊性病变的影像诊断

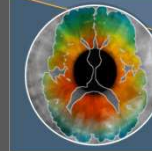
Pr. Alexandre KRAINIK

Dr. Zhen JIANG (蒋震)

Atelier IC2KnoW (IC2noW 工作室)

2015年11月19日

Hôpital sino-française de Suzhou (苏州大学附属第二医院)



IC2KnoW®

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[→ Previous workshops](#)

[→ Next workshops](#)