

NEWSLETTER

ASSOCIAÇÃO PORTUGUESA DE CIÊNCIAS FORENSES



ASSOCIAÇÃO PORTUGUESA de
CIÊNCIAS FORENSES

EDITORIAL

Caros associados,

Neste número, e ainda sobre o IV congresso da APCF e as XI Jornadas científicas do IUCS, falamos com o preleitor do curso pré-congresso em Radiologia Forense, Dr. Jeroen Kroll, da Maastricht UMC. Falamos de radiologia

forense e da sociedade que a tutela. Damos uma espreitadela à Forensic Magazine e discutimos temas de interesse forense!

Esperamos que gostem!

A vossa equipa editorial

ARTIGO

THE IMPORTANCE OF DARK ADAPTATION FOR FORENSIC EXAMINATIONS

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DR. JEROEN KROLL,
MAASTRICHT UMC.

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RADIOLOGIA FORENSE

INTERNATIONAL SOCIETY OF FORENSIC RADIOLOGY AND IMAGING

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A revista [Forensic Magazine](#) destacou um trabalho realizado na Universidade de Loughborough, no Reino Unido, que despertou a nossa atenção.

Os técnicos forenses que procedem à recolha de vestígios em locais sem luz, podem perder informação, caso a sua visão não esteja totalmente adaptada. O grupo que integrou este estudo, constituído por 31 homens e 19 mulheres, foi convidado a sentar-se numa sala escura e identificar de imediato todas as letras, números e padrões fluorescentes que conseguiram observar. Posteriormente saíram da sala durante cinco minutos, retornando logo após, de forma a se poder avaliar, através de um dispositivo especial (*The Crime-lite Eye™*), a adaptação de cada participante à sala escura. Uma vez verificada a adaptação dos olhos ao ambiente, o que levou aproximadamente 10 minutos, os participantes repetiram o processo de identificação.

Os resultados deste estudo mostram que inicialmente as pessoas identificaram mal algumas letras e números, perdendo igualmente informação relativamente a outras marcas fluorescentes (imitando impressões digitais) no escuro. No entanto, após o período de adaptação dos olhos ao ambiente, a eficiência de identificação aumentou, em média, 16%.

O processo de adaptação ao escuro, por parte de técnicos e investigadores em contexto forense, permanece pouco padronizado. O presente estudo sugere que com o auxílio de equipamento como o *The Crime-lite Eye™*, é possível melhorar a eficiência de recolha de vestígios nestas condições. De referir ainda que o tempo necessário à adaptação não é excessivamente longo, pelo que ao implementar este tipo de protocolo, não se corre o risco de atrasar significativamente a investigação.

Os resultados deste estudo foram publicados na revista *Science and Justice*, e podem ser consultados [aqui](#).



The Crime-lite Eye™



Science & Justice

Volume 59, Issue 2, March 2019, Pages 138-144



The importance of dark adaptation for forensic examinations; an evaluation of the *Crime-lite Eye™*

Beth McMurchie ^a Roberto S.P. King ^b , Paul F. Kelly ^a , George E. Torrens ^a

À conversa com:

Dr. Jeroen Kroll

Ainda no rescaldo do IV congresso da APCF e as XI Jornadas científicas do IUCS, falamos com o palestrante do curso pré-congresso em Radiologia Forense, Dr. Jeroen Kroll (JK), da Maastricht UMC.

APCF: Dr. Kroll, for those who could not attend your workshop at CESPU, could you tell us about your background and how you became a forensic Radiologist?

JK:I started in 2000 as a specialized radiologic technologist at the Maastricht University Medical Center. I was specialized in cardiac computed tomography, dual energy and perfusion imaging. In addition, the scope of his work included developing protocols, scientific research and data analysis. In 2009 I joined the Unit Forensic Radiology at Maastricht University Medical Center after a study in Forensic science, Criminology and Dutch law. Since August 2014 he has a fulltime position as a forensic radiology consultant (which is not a radiologists). My most important role is to maintain contact with the police, prosecutors and pathologists,

to provide forensic and legal input in the forensic radiology examinations, but also to expand the use of forensic radiology and related forensic products within the Netherlands. I have set-up and coordinate different forensic radiology centers in the Netherlands. My main task is to translate a forensic question into a medical question and visa versa.



APCF- In your opinion, what are the major advantages and challenges regarding the use of CT scans in forensic radiology?

JK: The main advantage is the speed of information you get out of CT (but also MRI), within a few hours after an incident you have complete documentation of the body without any loss of evidence. The information can give direction to your investigation in an early stage eg. the number of bullets, metal fragments of used object, cause and manner of death etc. The main challenge will be to stay an independent investigation to the body and convincing the police that radiology can give additional of other information compared to the pathology.

Uma pesquisa na MEDLINE/Pubmed, usando o termo “*forensic radiology*”, resultou em 4883 artigos, sendo clara a sua preponderância nos últimos anos!

The screenshot shows a PubMed search results page. The search term 'forensic radiology' has been entered into the search bar. The results are sorted by 'Most recent'. There are 4883 items listed, with the first 20 shown. A yellow box highlights the 'Titles with your search terms' section on the right side of the page, which lists several titles related to forensic radiology, such as 'Forensic Radiology: An Exciting and Developing Field' and 'Forensic Radiology: A Primer.'

Key elements visible in the interface include:

- Left sidebar filters:** Article types (Clinical Trial, Review, Customize...), Text availability (Abstract, Free full text, Full text), Publication dates (5 years, 10 years, Custom range...), Species (Humans, Other Animals), and a 'Clear all' link.
- Top navigation:** NCBI Resources, How To, Sign in to NCBI.
- Search bar:** PubMed dropdown, search term 'forensic radiology', and a 'Search' button.
- Result summary:** Format: Summary, Sort by: Most Recent, Per page: 20, Send to, Filters: Manage Filters.
- Results section:** Best matches for forensic radiology, including links to articles like 'FORENSIC RADIOLOGY AND IMAGING FOR VETERINARY RADIOLOGISTS.' and 'Forensic radiology special feature: preface.'
- Sort by options:** Best match (selected) and Most recent.
- Results by year chart:** A histogram showing the distribution of publication years from 2010 to 2019.
- Titles with your search terms:** A section highlighted with a yellow box, listing titles like 'Forensic Radiology: An Exciting and Developing Field' and 'Forensic Radiology: A Primer.'
- Page navigation:** << First, < Prev, Page 1 of 242, Next >, Last >>.
- Bottom right:** 'See more...' link.

APCF- Could you tell us what was your most interesting investigation so far, and why?

JK: The biggest and far most challenging was the MH17 case; number of victims (298), the use of a mobile scanner in a temporally mortuary and the impact factor of all media attention.

The screenshot shows a news article from The Guardian. At the top, there's a navigation bar with links for 'Support The Guardian', 'Available for everyone, funded by readers', 'Search jobs', 'Sign in', 'Search', 'International edition', 'Contribute', and 'Subscribe'. Below the navigation is the main header 'The Guardian' and a sub-header 'MH17 court case will finally put truth on record'. On the left, there's a sidebar with a photo of a man in camouflage standing next to the wreckage of a plane. The main text discusses the downing of Malaysia Airlines flight MH17 and the subsequent court case. It includes quotes from a correspondent, social media sharing options, and a small image of a person at the crash site.

APCF-Concerning your workshop at Cespu and participation the the University congress, how was your experience?

JK: It's always nice to meet people who are keen on learning new things. I hope we can establish a relationship so we can keep on going 'the exchange of knowledge within Europe/world'; CESPU has a good international reputation and a European port function for other continents (Africa / South America)! I was very honored to speak at the congress and share my experiences within forensic radiology. It was great to see so many enthusiastic people. Maybe next year there's an opportunity to organise a small english speaking session which will attract more people for outside Portugal what will fit perfectly in the CESPU-profile.

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APCF- Finally, do you have any advice for young forensics students that may want to pursue their studies in forensic radiology?

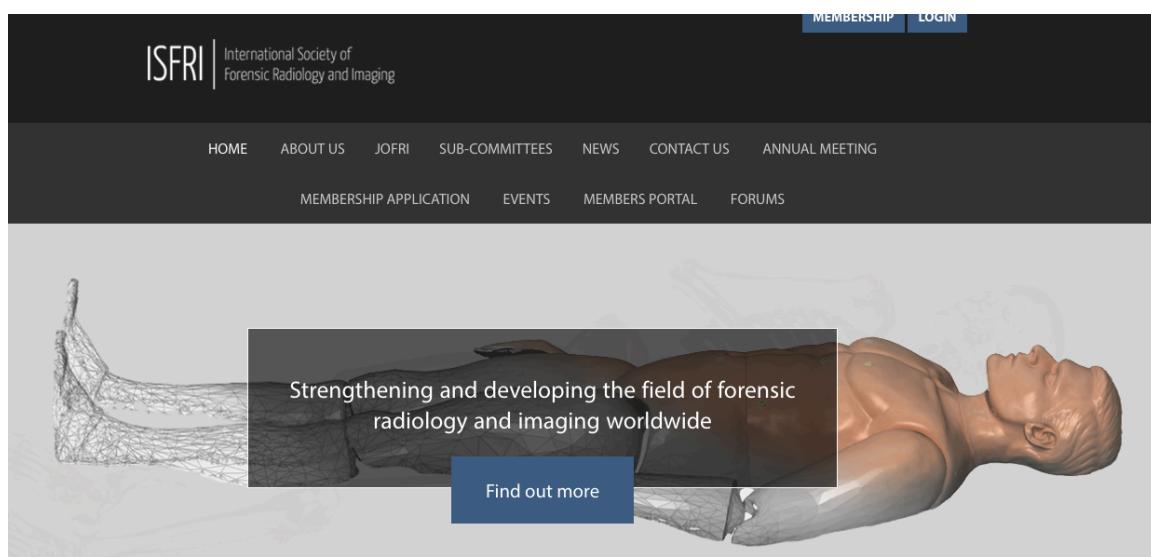
JK: Make sure you allow yourself to be trained as broadly as possible. Whatever life brings you; the basis is and remains the most important. This new field demands a lot; lots of falling, getting up and continuing.....

Mais sobre radiologia forense:

A [International Society of Forensic Radiology and Imaging](#) tem como objectivo fortalecer e desenvolver o campo da imagiologia e radiologia forense a nível mundial. Tal inclui promover boas práticas e desenvolver *guidelines* e standards de qualidade internacional .

Os seus objectivos específicos são:

- ✓ Fortalecer e desenvolver o campo da imagiologia e radiologia forense
- ✓ Promover boas práticas na imagiologia radiologia forense através da comunicação e cooperação
- ✓ Promover a educação e especialização no campo da imagiologia e radiologia forense
- ✓ Promover e desenvolver programas de investigação na imagiologia e radiologia forense
- ✓ Estabelecer *guidelines* e standards de qualidade internacional na imagiologia e radiologia forense
- ✓ Estabelecer o processo de regulação e certificação da radiologia forense e ciências imanológicas associadas



Annual ISFRI Meeting 2020

14 May 2020 - 16 May 2019 @ Albuquerque (United States)

The 2020 annual ISFRI meeting will take place from 14 to 16 May in Albuquerque, New Mexico, USA.

O próximo congresso do ISFRI realizar-se-á, em Albuquerque, nos EUA, entre 14 e 16 de maio de 2020

A revista da ISFRI pode ser encontrada [aqui](#)!

Journal of Forensic Radiology and Imaging

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As oportunidades profissionais nesta área são variadas!

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Careers in Forensic Radiology

by Ellie Williams



Forensic radiologists help to solve and prevent crimes, determine causes of death and confirm the identities of victims. The field evolved shortly after the discovery of X-ray technology in 1895 and was first used to convict an accused murderer in America, quickly spreading to other countries. Forensic radiologists work for law enforcement agencies and coroners' offices, and the U.S. Bureau of Labor Statistics expects demand for forensic specialists such as radiologists to increase by 19 percent between 2010 and 2020.

Related Articles

- [1 Radiology Tech Jobs in the Criminal Field](#)
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ESTE ESPAÇO É VOSSO!

Abrimos um espaço dedicado aos nossos associados. Escreva-nos! Faça sugestões, comentários, coloque dúvidas!

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