Dr. Heinz Tschäppeler X-ray-archive of paediatric radiology

Integration of the musculoskeletal cases of the Dr. Heinz Tschäppeler X-ray-archive into the web page „PediRad”

Introduction

Dr. med. Heinz Tschäppeler was the former department chief of paediatric radiology of the university hospital of Bern. During his term he collected a very extensive and systematic compilation of paediatric radiographs, known as the “Tschäppeler-archive”.
The intention was to review the musculoskeletal cases and to integrate them into the web page PediRad, so that they are available for education. (http://e-learning.studmed.unibe.ch/pedirad)
The content will be available in 2017.

Method

The musculoskeletal cases of this collection of images underwent a revision and were classified based on the paediatric radiology teaching-program of the department of diagnostic, interventional and paediatric radiology, university hospital of Bern. Every case has a specified number of image-identification. The pictures were made anonymous and processed with “Fotor” and “Snagit”. In cases with more than one x-ray (follow-up images), they were merged as one image. The comments have been audited and amendments like modalities, anatomical region and age of the children were added. The images were prepared with “IrfanView” for the automatic data import. The musculoskeletal images are uploaded in the learning modules D, E and G on Tschäppeler-archive on the PediRad-platform. The categories “classification of anatomical region” and “classification of age” were constructed and the images were additionally divided in these categories. To almost each case a corresponding link to “Radiopaedia” or a similar web page was added. For each learning module questions, suitable for their educational objectives, were constructed.

Figure 2: Battered Child with costal fractures, thorax, male, 3 months

Results

Around 1200 cases with a wide range of x-ray images are ready for a broad audience and will soon be published among the established “PediRad” modules. Among the clinical pictures are also rarely seen images. The cases of the “Tschäppeler-archive” will be used for education and advanced training of students and physicians.

Figure 1: Thalassämia major, skull, male, 7 years, classic "hair-on-end" appearance

Figure 3: Example for a Tschäppeler-archive case on PediRad and an adapted question (Answer C is correct)

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