FIXTURE ANEFACTO (Annefact Artifact in MRI) by luis clubs Arsasona. March 2015

With the nickname "artifacts" used in the field of MRI, designating any stroke, stain or shading that appears unexpectedly and degrades the image quality of magnetic resonance tomography. There are many causes artifacts, some are physical and other techniques. This section shows some images with artifacts anefacto, explains why they occur and how they can be avoided.

The appearance of these artifacts is common in the scans of the spine and knee when multichannel surface antennas Phased Array and rapid pulse sequences, such as Fast Spin Echo are used. They are characterized by a bright and dark lines that appear all images of sagittal and coronal orientation. Appear white paint strokes which are arranged staggered in the center of the image, in that the phase coding (Figure 1). Are caused by interference signals which are generated outside the FOV and contours which are detected by any of the distal antenna modules. It is a technical error that are not properly selected modules corresponding to the anatomical structure being scanned antenna.
known to a part of the subarachnoid space of the pit poster ...

Enostosis: ISOLATE BONE (Bone Island: CT and MRI Findings) (enostosis ilot osseux de vertèbre.) By luis clubs Artasona. July 2012. Enostosis or a bone island is a benign bone formation taking place in the cancellous bone of the vertebral bodies, the pelvi ...

ATTENUATION COEFFICIENT CT Scan (Attenuation Coefficient in Computed Tomography) (Schwächungskoeffizient in der Computertomographie) (Coefficient di Attenuazione in the Tomografia Computerizzata) (Coefficient of Attenuação na Computadorizada Tomografia) (Coefficient d’Attenuation in tomodensitométrie) by luis clubs Artasona. February 2011. The attenuation suffered a beam of X-rays as it passes through the tissues was a physical phenomenon known in radiology, but not ...

ABSORBED DOSE OF RADIATION IN COMPUTED TOMOGRAPHY (Radiation Absorbed Dose in Computed Tomography) by luis clubs Artasona. December 2012

(Do not do to others what you would not have them do unto you) ...

Closed Head CT Scan: vasogenic edema (Craneoencephalic CT: vasogenic edema) by luis clubs Artasona. November 2013

Cerebral edema is a pathological condition characterized by abnormal accumulation of fluid in any of the components ...

Iodinated contrast in CT Scan (Iodinated Contrast in Computed Tomography) by luis clubs Artasona. December 2014. The iodinated contrast is a chemical compound that is commonly used on many scans CT scan to incre ...

2) HEMATOMA Subgaleal: FINDINGS IN CT Scan and TRM (Subgaleal Hematoma: CT and MRI Findings) (Subgaleale ...

FIGURE 1) anefacto artifacts that are superimposed on the lumbosacral spine preventing viewing.

Key Words: MRI artifacts. Annefact Artifact. MRI.

FIGURE 2) Antenna "Phased Array" column (Signa Excite 1.5T. GE). This type of antennas consist of several modules that collect reception signal RM individually. In this, there are six modules marked with numbers (arrows). As a rule, the first two are activated CS 12, to perform a scan of the cervical spine. For the spine should be activated following TS 34 and lumbosacral, the remaining LS 56. But not all patients are equally high, so sometimes you have to make corrections to this general rule not to occur artifacts. Here comes in the Technical expertise and quality control Medical Resident.
FIGURE 3) In this figurative recreation are marked antenna modules 2, 3, 4 and 5. 1 to 6 are not seen but are there. The FOV marked by the Technical covers the dorsal region, both for proper study should enable the modules 23 and 4, so that the artifact anefacto does not occur.

FIGURE 4) However enabled, incorrectly, improper CS123 modules (yellow arrow) to the spine. The result is a lack of signal at the lower portion of the image (module 4 because he has collected the anatomical region that signal is not activated) and the occurrence of an artifact anefacto bright produced by spurious signals collected by Module 1 of the antenna is outside the contours of the FOV but turned How can I fix this? For selecting the appropriate modules and repeating the scan. (Four minutes of time).

In the following images (Figures 5, 6, 7 and 8) anefacto artifact in columns on the left is appreciated, because they are selected incorrectly modules CS 123 (yellow arrows) delà Phased Array Antenna. however, in the left columns artifact disappears because it has been repeated CT scan activating the correct modules 234 of the antenna (white arrows).
FIGURE 5)

FIGURE 6)

FIGURE 7)

BIBLIOGRAPHY:


FIGURE 8

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