

Busta n. 4

Argomento n. 1: Protocollo RM di studio del ginocchio

Argomento n. 2: Protocollo RM di studio della pelvi

Prova di inglese:

Diffusion-weighted imaging has a preeminent role in the detection and characterization of cancerous lesions, including those in the prostate. With diffusion MRI, the signal reflects the random diffusion of water molecules through the tissue of interest, providing sensitivity to the underlying tissue composition. Next to diffusion MRI, T2 relaxometry has also emerged as a suitable tool with which to assess prostate microstructure. MRI relaxometry exploits the property that signal relaxation is sensitive to the local chemical environment.

Prova di informatica:

Inserire un elenco numerato in un file Word con del breve testo tratto da internet, e cambiare il colore del testo.



BUSTA N. 1

Argomento n. 1: Protocollo RM di studio della spalla

Argomento n. 2: Protocollo RM di studio dell'ictus ischemico

Prova di inglese:

MRI is a suitable technique for non-invasive imaging and quantification of muscular fat infiltration and muscle cross-sectional area in individual muscles. Studying individual muscles is important because the amount of fat infiltration varies widely between muscles. In addition, MRI allows quantification of changes in tissue water distribution based on the muscle water T2 ($T2_{\text{water}}$). Increased $T2_{\text{water}}$ is thought to reflect intracellular or extracellular oedema, an early pathophysiologic event in muscular dystrophies.

Prova di informatica:

In un file Word, inserire una tabella con 3 righe e 3 colonne e riempire le celle con numeri.

NON SORTEGGIATA

Busta n. 2

Argomento n. 1: Protocollo RM di studio dei tumori cerebrali

Argomento n. 2: Protocollo RM di studio della prostata

Prova di inglese:

It has long been suspected that trace amounts of gadolinium are retained in the body after gadolinium-based contrast agent (GBCA) administration. The visualization of hyperintensities on T1-weighted images after six or more GBCA administrations indicates gadolinium accumulation in the dentate nucleus and globus pallidus (GP) and has generated substantial concerns about toxicity and interest in deposition mechanisms. Additional T1 hyperintense sites in the brain became evident in patients after more than 35 administrations of linear GBCAs.

Prova di informatica:

Effettuare una somma di valori numerici presenti in più celle contigue in Excel.

NON SORTEGGIATA

Busta n. 3

Argomento n. 1: Protocollo RM di studio della Sclerosi Multipla

Argomento n. 2: Protocollo RM di studio delle lesioni epatiche

Prova di inglese:

Patients with multiple sclerosis (MS) were consecutively screened for enrolment between June 2017 and April 2019. Inclusion criteria were diagnosis of MS according to current operational criteria and age at onset greater than 18 years. Clinical exclusion criteria were relapses or use of corticosteroids within 4 weeks before MRI; presence of major medical conditions other than MS; cervical cord damage not due to MS abnormality (e.g., cervical trauma); and evidence of cervical spinal cord compression and/or deformity on previous MRI scans.

Prova di informatica:

Collocare, in ordine crescente, una serie di valori numerici in colonna in una tabella Excel.

NON SORTEGGIATA