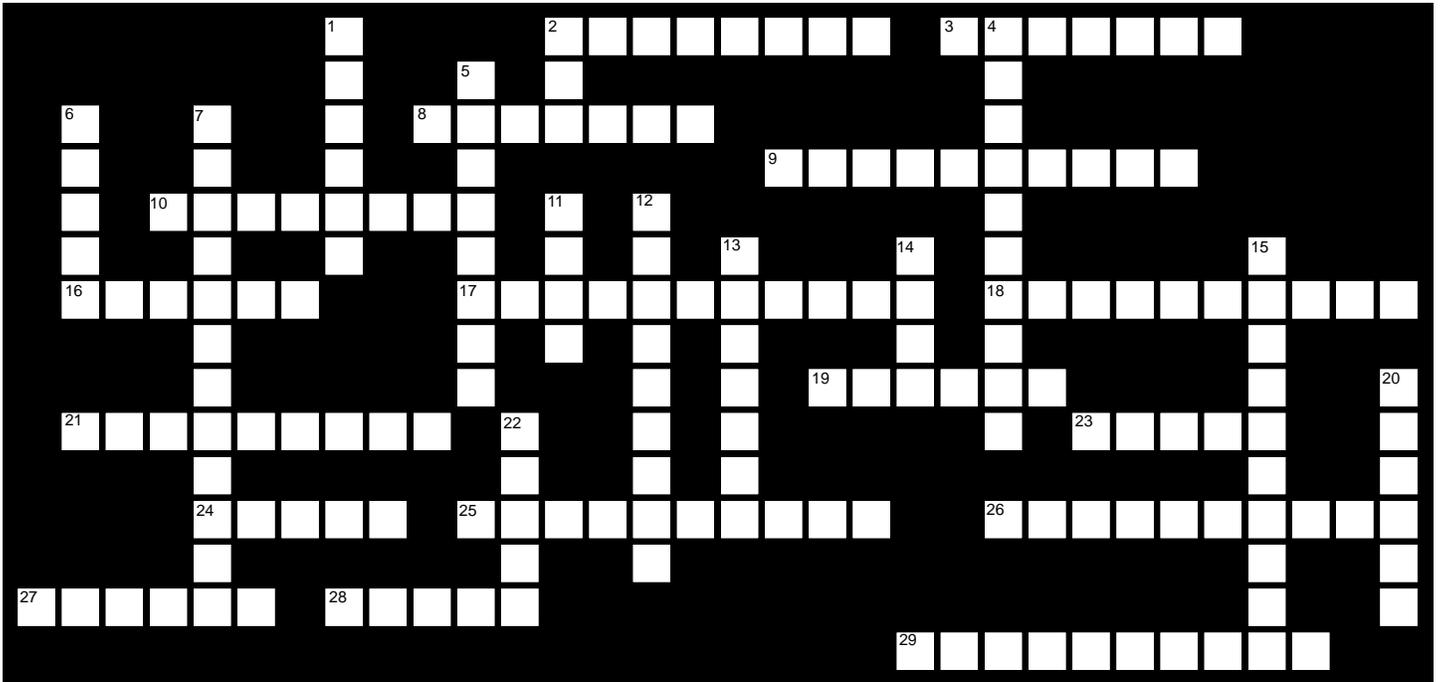


Test Your MR Knowledge



Across

- 2 The process used to improve the homogeneity of a magnetic field.
- 3 The net magnetization of protons will _____ around the main magnetic field of an MR system.
- 8 The _____ transform is the algorithm used to reconstruct MR images.
- 9 Two sets of RF coils oriented perpendicular to each other.
- 10 A small linear change in the magnetic field along a particular direction.
- 16 The _____ equation relates the frequency of precession to the magnetic field strength.
- 17 Having voxels which are not the same size in all three directions.
- 18 A plane which is perpendicular to the axis which runs from head to foot in the patient.
- 19 The sub-atomic particular which gives rise to the MR signal.
- 21 This property is exhibited by a spinning proton.
- 23 A single volume element.
- 24 A unit of magnetic field strength.
- 25 A paramagnetic atom used in MR contrast agents.
- 26 The reduction of a tissue's magnetization by rapid repetitions of RF energy.
- 27 The rapid release of a large volume of helium gas from a superconducting magnet.
- 28 The direction the magnetization is pointing at any given moment in time.
- 29 Anatomy outside the field-of-view is mismatched to the other side of the image.

Down

- 1 The grid of rows and columns of pixels which make up the digital image.
- 2 The FDA limit of how much RF power that can be transmitted into a patient in a given period of time (abbrev.)
- 4 The return of the magnetization of the protons to a less energized state.
- 5 The ability to differentiate small differences in signal coming from adjacent tissues.
- 6 A single picture element in a digital image.
- 7 The _____ ratio.
- 11 An RF _____ is used to transmit and receive RF energy.
- 12 Mechanism by which RF energy intended for one slice interferes with the signal in an adjacent slice.
- 13 An extremely cold liquid used in a superconducting magnet.
- 14 The tiny signal that comes out of the patient as a result of the application of RF energy.
- 15 A measurement of the smallest object that we can visualize in the image.
- 20 The _____-to-noise ratio.
- 22 A pulse sequence characterized by the collection of gradient and spin echoes (abbrev.)

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