Determining the health of the brain. It is useful in detecting abnormalities such as tumors, bleeding, and inflammation through the use of magnetic resonance imaging (MRI). This technique involves the use of powerful magnetic fields and radio waves to create detailed images of the brain's structures.

Caption: Healthy brain. Coloured magnetic resonance imaging (MRI) scans through the head of a 31 year old woman, showing the brain sectioned in coronal (frontal) view. There are 20 scans, taken from the back of the head (top left) through to the front (lower right). Inside the skull the cerebrum of the head appears convoluted (yellow/red), with the cerebellum (pink) beneath it, as well as tissues of the neck (blue) seen. Parts of the face including eye sockets and nasal bones are seen at lower right. MRI scanning creates “slice” images through the body using radio waves and a powerful magnetic field. It is useful in determining the health of the brain.
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