

Structural MRI – the good and the bad

This presentation will focus on structural brain magnetic resonance imaging and its use in clinical practice. Latest developments with respect to improved contrast and acquisition speed offer opportunities for clinical research and practice. This may allow new insights in subtle structural changes to better understand the underlying patho-physiology of a number of diseases. However, structural imaging including advanced methods are highly susceptible to various machine and patient specific artifacts that may degrade image quality and the clinical value of those methods. Potentials, pitfalls and perspectives in structural MRI in the context of clinical research and practice will be discussed.