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MR & CT Perfusion Imaging: Clinical
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Principles. Publication Year: 2016
Edition: 1st Ed. Authors/Editor:
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Computed tomography (CT) perfusion imaging processed by RAPID software showing the ischemic core and perfusion deficit. Above, a patient with an occlusion of the M1 segment of the right middle cerebral artery who has a target mismatch profile is shown (A), that is, small ischemic core (pink), considerable tissue at risk for infarction (green) and a large mismatch ratio.

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- CT perfusion shows area of hypoperfusion in right MCA territory with total volume of 123 ml, core of 20 mL, and penumbra of 103 mL • Patient underwent successful RICA angioplasty and R MCA thrombectomy • Followup DWI MRI closely matches initial area of core infarct seen on CT perfusion, with sparing of some of penumbra area

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Perfusion • Perfusion is the process of passage of blood from an arterial supply to venous drainage through the microcirculation (capillary bed).

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Perfusion weighted imaging is a term used to denote a variety of MRI techniques able to give insights into the perfusion of tissues by blood..

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CT Brain Perfusion | Cedars-Sinai
Magnetic resonance imaging of perfusion using spin inversion of arterial water. Proc Natl Acad Sci USA 1992 ; 89 : 212–216. Barbier , EL , Lamalle , L , Décorps , M .

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