Histopathology – high field MRI verification
Underlying correlate of MRI visible vs. invisible lesions

1962 Nineties 2000
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2005 2006
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2011

(HISTO)PATHOLOGY

A
GM pathology more frequently detected
B
GM pathology is common and widespread
Pathological correlates: GM ≠ WM

1st detection of MS lesions in (sub-)cortical gray matter

2000 ———— 2005

GM lesions hard to visualize with MRI

Quantitative MRI able to detect changes in (NA)GM
GM atrophy, thalamic atrophy

DIR – scoring recommendations for cortical lesions
(Ultra) High-field MRI
Interest in specific GM structures

NEUROIMAGING