

CURRICULUM VITAE**Sung Jun Ahn, MD, PhD**

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Current Title

Assistant professor in Department of Radiology, Yonsei University of College of Medicine.

EDUCATION

1996 Department of Chemical Engineering, Seoul National University.
Honor Graduation, Bachelor of Engineering (Chemical engineering)
2003-2007 Yonsei University, College of Medicine. Graduation, Degree in Medicine
2009-2011 Yonsei University, College of Medicine. Graduation, Master Degree Course
2012-2015 Yonsei University, College of Medicine. Graduation, PhD Course

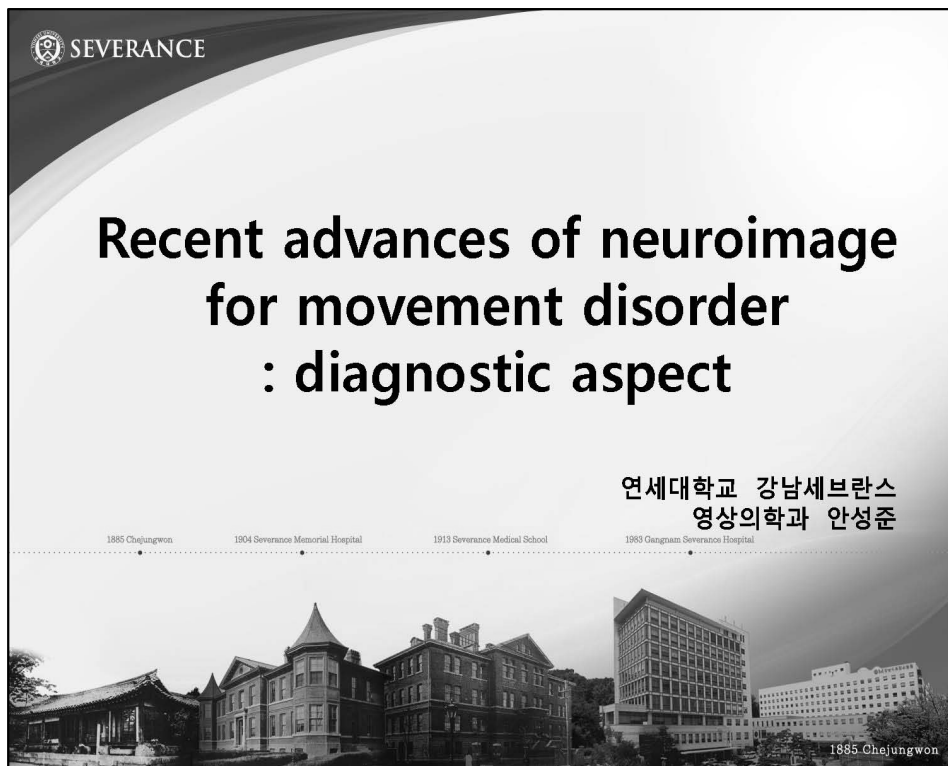
CAREER

1999-2001 KATUSA Training Academy, NCO academy, USA 8th army. Discharged as a senior sergeant.
2007-2008 Intern, Severance Hospital
2008-2012 Resident, Department of Radiology in Severance Hospital.
2012-2014 Fellow, Department of Radiology in Severance Hospital
2014-2015 Clinical assistant professor of Radiology and Neuroradiology in Severance Hospital
2015-2016 Clinical assistant professor of Radiology and Neuroradiology in Gangnam Severance Hospital
2016-Present Assistant professor of Radiology and Neuroradiology in Gangnam Severance Hospital

GRANTS & PRIZE AWARDED





2011/02 Honorable Research Resident in the Department of Radiology, Severance Hospital
2011/08 Honorable Research Achievement Award, Graduate School of Yonsei University, College of Medicine
2013/02 Certificate of Neuroradiology Fellow Eexchange Program of Korea, Japan and Taiwan Neuroradiology Society.






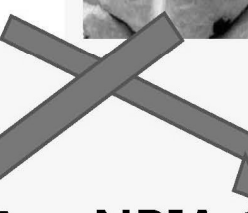
Diagnosis at a glance

SEVERANCE

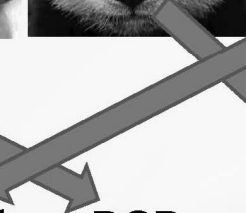








MSA



NBIA 1



PSP

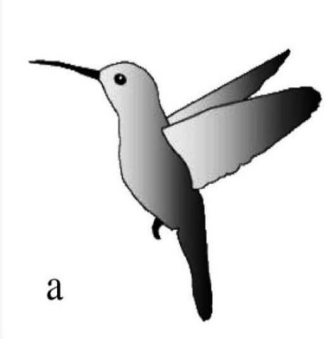


Wilson

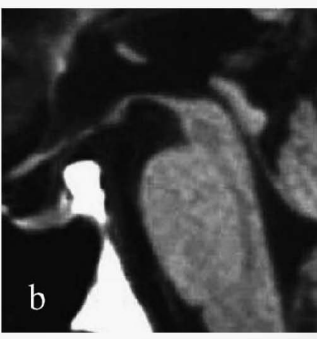
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Progressive supranuclear palsy

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a



b

1. Rostral midbrain tegmentum, caudal midbrain tegmentum atrophy.
2. Medial longitudinal fasciculus involvement

J Neurol Sci 2003;210:57-60.
1885 Chejungwon

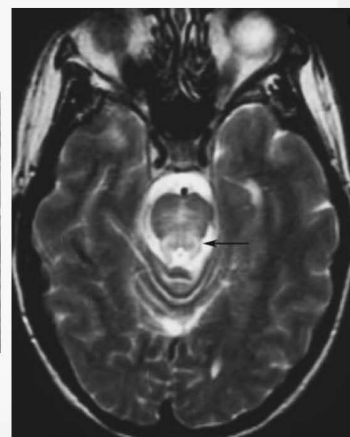
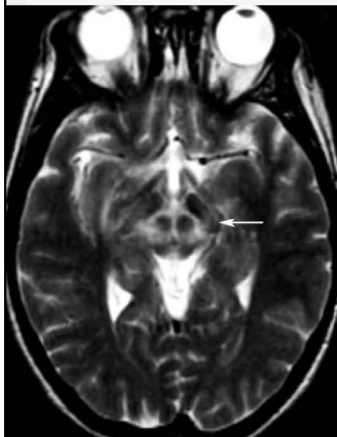
Multiple systemic atrophy



1. MSA-c
2. Wallerian degeneration due to vasculitis, infarction, SCA

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Wilson's disease



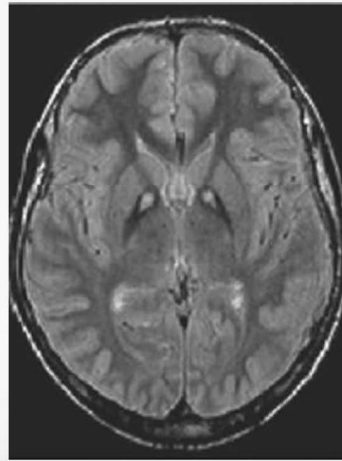
1. Copper metabolism
2. Accumulation of copper, chronic ischemia, vasculopathy, or demyelination

Neurology 2003;61:969



Neurodegeneration with brain iron accumulation type 1

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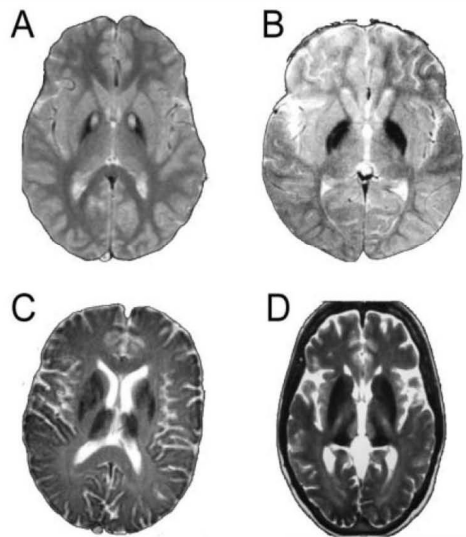
1. Hallervorden-Spatz
2. PANK2 gene mutation
3. Central hyperintense SI + hypointense rim (eye of tiger)

Neurology 2008;70:1614-1619.

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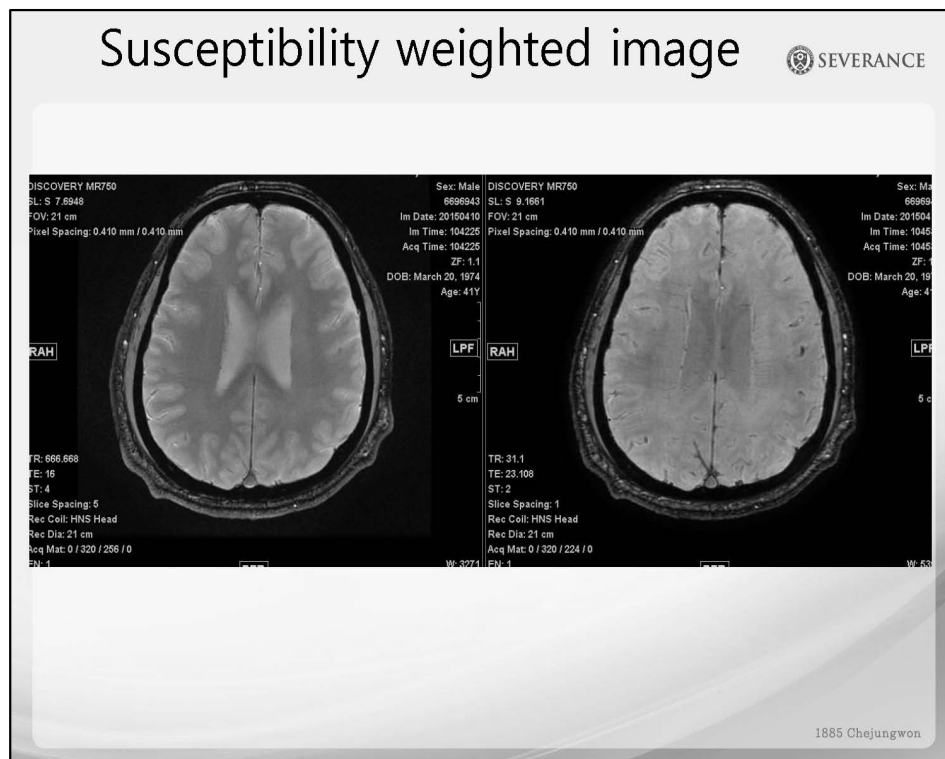
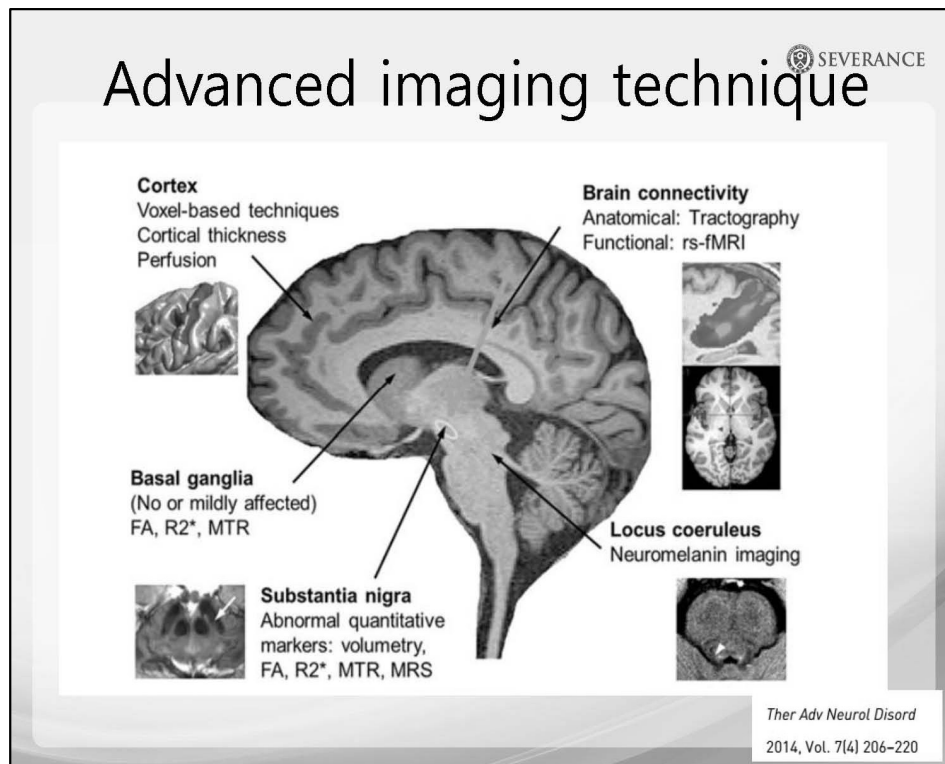
Imaging features of NBIA subtypes

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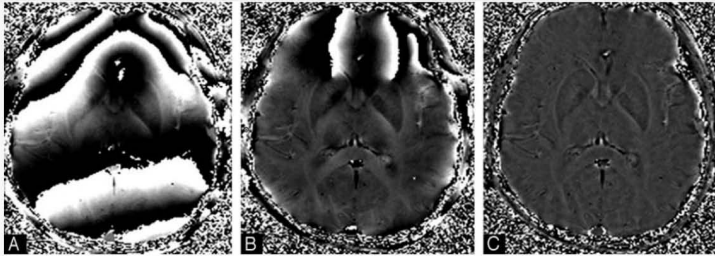
Neurology 2008;70:1614-1619.

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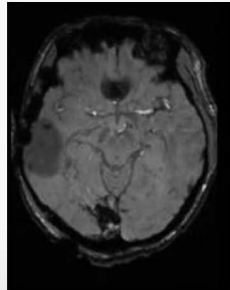


Susceptibility weighted image

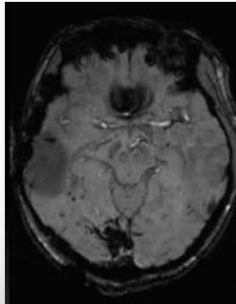
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Phase image



X (phase mask)4



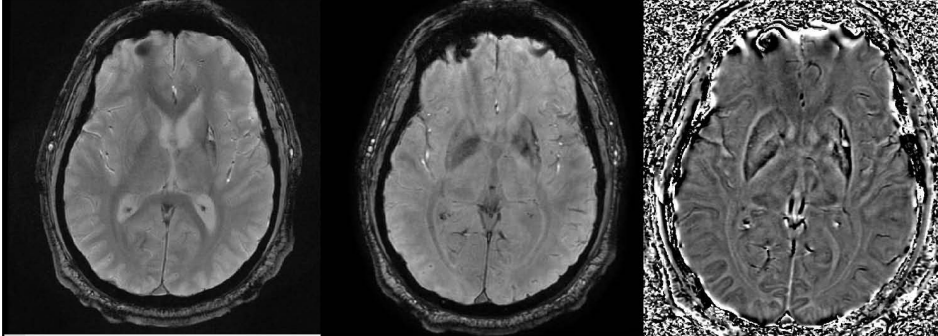
Magnitude image
SWI

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SWI

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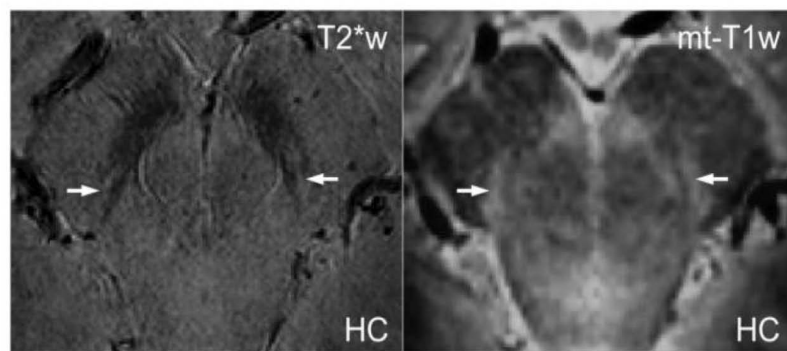
- 3D gradient echo
- Higher resolution
- Flow compensation
- Phase images



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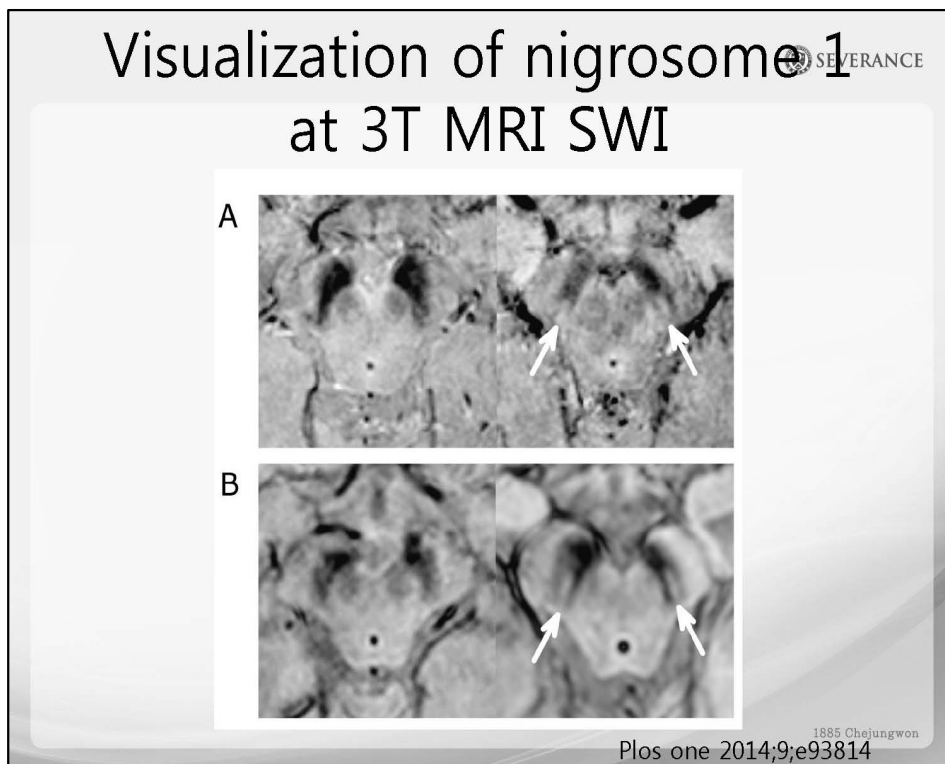
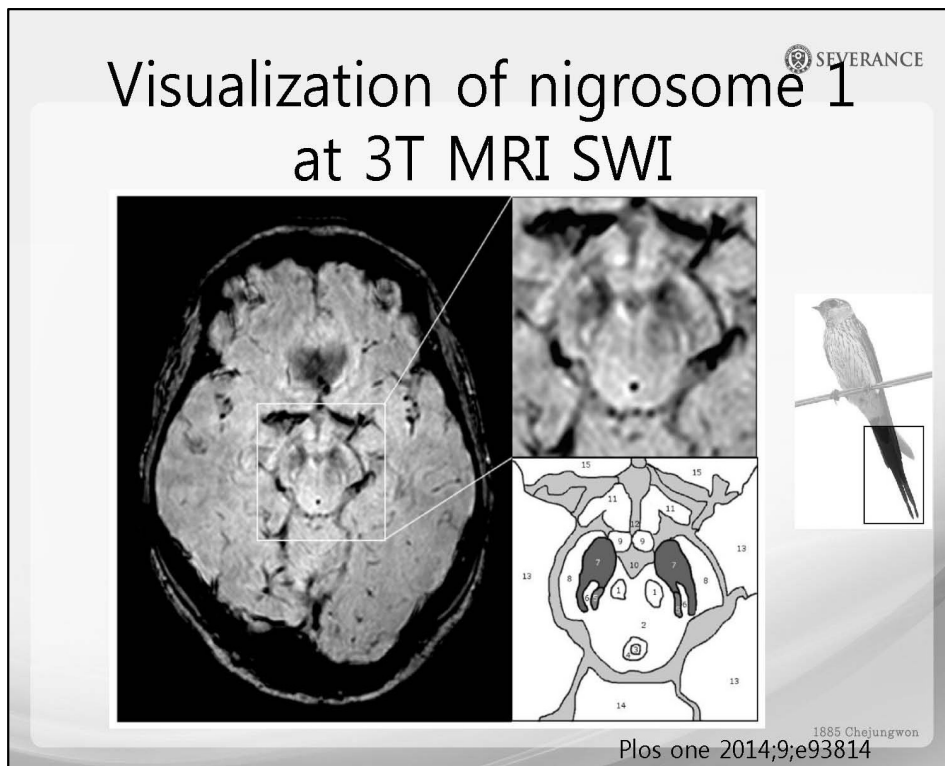


Visualization of nigrosome 1 at 7T MRI



Neurology 2013;81:534-540

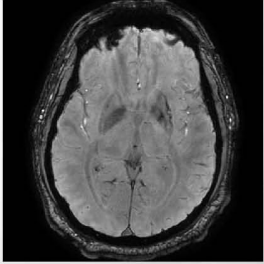
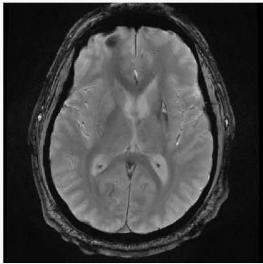
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Iron load

R2/R2* relaxometry

QSM, Phase



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R2* relaxometry

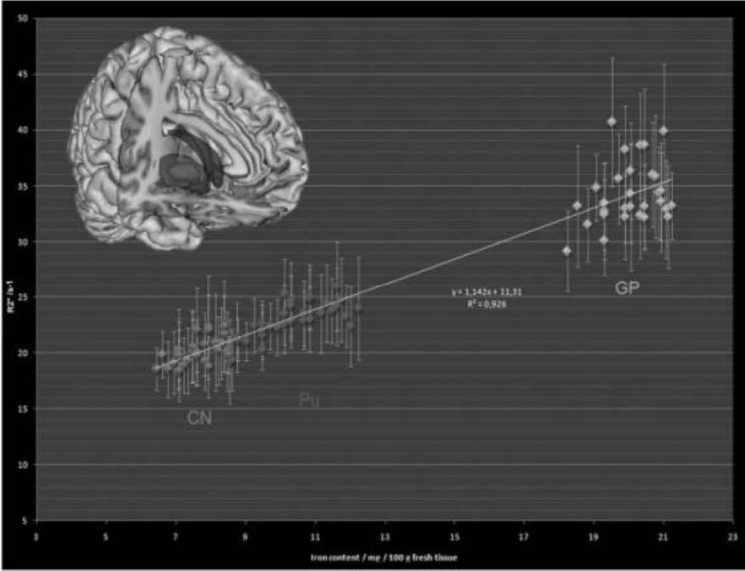
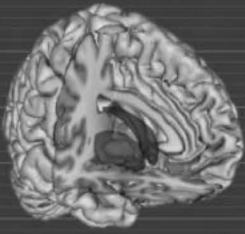
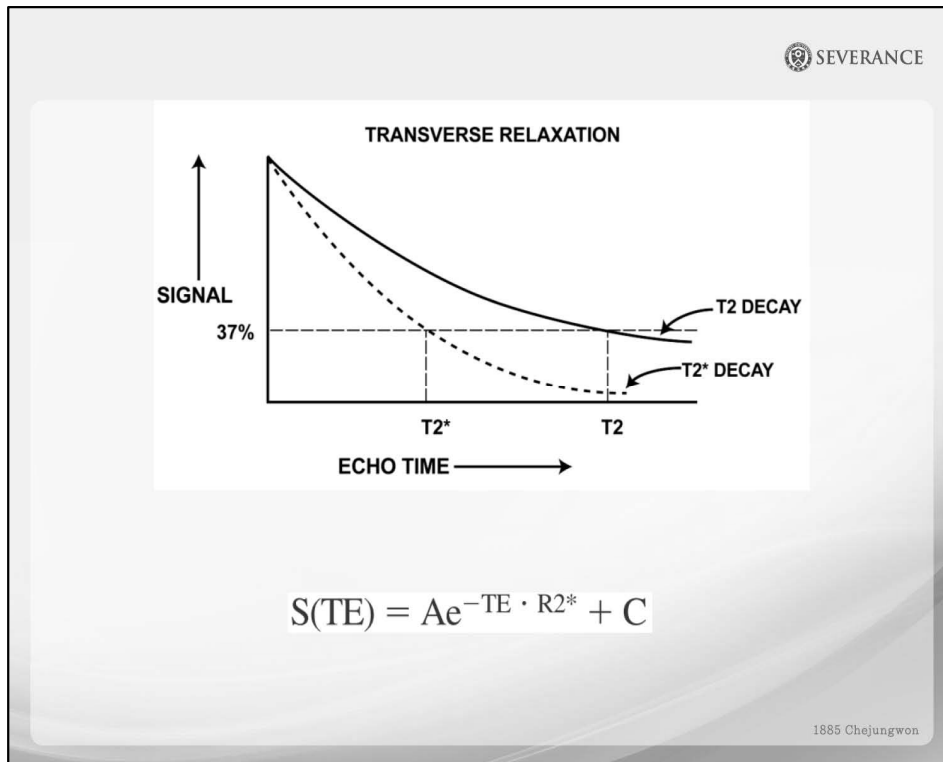


Figure 1.

• Human Brain Mapping 30:2667–2675 (2009) • WON

post-mortem data [Hallgren and Sourander, 1958]





R2 star mapping(Based on MFSPGR, Multi echo fast SPGR)

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