

rt- PA

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Advances in mechanism of intracranial hemorrhage and transformation after intravenous thrombolysis treatment with rt- PA HE Zi-long MA Guo-zhong CUI Fang, Department of Neurology Hainan Branch PLA General Hospital Sanya 572031 China

Keywords Ischemic stroke rt- PA Intravenous thrombolysis Intracranial hemorrhage transformation Reviews

Plasminogen Activator (Recombinant Tissue Plasminogen Activator rt- PA)

(ECASS) (NINDS) 2014 rt- PA

rt- PA

rt- PA

1

(7 d)

ECASS

ECASS (Hemorrhagic Infarcts HI) (Parenchymal Hematomas PH)

HI PH

PH

PH

3 4

(Symptomatic Intracerebral Hemorrhage sICH) (Non- symptomatic Hemorrhage ICH) sICH

NINDS ECASS

(SITS- MOST) 3 6

ECASS

1 7

()

22 h-7 d¹

rt- PA 27.5%⁷

NINDS

5 min

rt- PA

24 h 80%

12 h

24 h

2

NINDS ECASS

BBB)
rt- PA

rt- PA

-

14-15

BBB
HI

PH

4

()

PH

CT

8-9

sICH

(Cerebral Amyloid Angiopathy CAA)

CAA rt- PA

70%

¹⁰⁻¹¹

22%

CAA

(Cerebral Microbleeds CMB)

CAA

rt- PA

16-17

Meta

CMB

sICH

(RR)

1.90(95% CI=0.92~3.93)

P=0.08)⁴

Kimura

¹²

CMB

CMB

24 h

SITS GRAPSPS SEDAN HAT

CMB

sICH

7

HINSS

Mehta ¹³

C (C- statistic)

C

0.62~0.70

rt- PA

2

18-20

BBB

BBB

3 rt- PA

BBB

HI PH

ECASS-I

rt- PA

36 h

30%

13%
 rt- PA
 21
 rt- PA
 rt- PA
 (1)rt- PA
 rt- PA
 rt- PA
 (2)rt- PA
 PH
 rt- PA
 PH
 rt- PA
 rt- PA
 rt- PA
 22
 rt- PA
 rt- PA
 BBB
 (LDL
 Receptor- related Protein LRP)
 C(Derived Growth Factor C) N-
 (N- methyl- d- aspartate NMDA)NR1
 - d
 rt- PA
 rt- PA
 23-27
 rt- PA
 BBB
 BBB
 28
 rt- PA
 (Matrix Metalloproteinase MMP)
 MMP- 9
 MMP
 BBB
 14 26 28
 BBB
 rt- PA
 rt- PA
 1
 J .

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Key words Stroke Dementia Vascular cognitive impairment Reviews

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VCI

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