

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 51294

**Manuscript Type:** ORIGINAL ARTICLE

*Observational Study*

**Relationship between homocysteine level and prognosis of elderly patients with acute ischemic stroke treated by thrombolysis with recombinant tissue plasminogen activator**

Li J *et al.* Hcy level and prognosis in acute ischemic stroke elderly patients

Juan Li, Fan Zhou, Feng-Xue Wu

**Abstract**

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The possible mechanism may be the increasing homocysteine **level** caused neurotoxicity, endothelial dysfunction, and other associated prothrombotic factors, which is reported to be an independent predictor of poor outcome in patients with ischemic stroke [5–7].

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Author: En-Sheng Yao, Yan Tang, Min-Jie Xie, Mi...

Publish Year: 2016

## Cognitive impairment and stroke in elderly patients

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4818041>

Mar 24, 2016 · Treatment of the acute phase. Consistent with animal models of ischemia, the overarching goal of acute ischemic stroke therapy is relieving the arterial occlusion (recanalization) and restoring cerebral blood flow (reperfusion) as soon as possible to reduce tissue injury and improve outcomes.<sup>19</sup> There is consensus based on strong evidence that in patients presenting within 4.5 ...

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## Effects of alteplase in the treatment of acute ischemic stroke

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3459662>

Sep 06, 2012 · This was a retrospective cohort study of patients with acute ischemic stroke who underwent thrombolysis with alteplase between 2007 and 2011. It was conducted in a small stroke subunit at the department of internal medicine in Vinzentius Hospital, a medium-sized 400-bed acute general hospital in Landau, Germany.

Cited by: 1

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<https://www.sciencedirect.com/science/article/pii/S105230571730229X>

Intravenous thrombolysis with recombinant tissue plasminogen activator is an approved method for acute ischemic stroke (AIS).<sup>4, 5</sup> AIS patients could benefit from the intravenous thrombolysis therapy. Nonetheless, some patients may still have poor prognosis. The causes of ...

Cited by: 2

Author: Longfei Wu, Xiaoqin Huang, Di Wu, Wenb...

Publish Year: 2017



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### Elevated Homocysteine Level Related to Poor Outcome After ...

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### Elevated Total Homocysteine Levels in Acute Ischemic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4542568>

Aug 24, 2015 · Elevated Total Homocysteine Levels in Acute Ischemic Stroke Are Associated With Long-Term Mortality ... vitamin B12 supplementation results in cyanide production and is harmful to patients. 12,13. The relationship between tHcy levels and vascular events and death after ... -thromboglobulin, tissue plasminogen activator, and factor VIIc. 33 ...

Cited by: 61 Author: Zhihong Shi, Yalin Guan, Ya Ruth Huo, S...  
Publish Year: 2015

### Effects of alteplase in the treatment of acute ischemic stroke

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3459662>

Sep 06, 2012 · In total, 1017 patients were admitted for stroke evaluation to Vinzentius Hospital between 2007 and 2011. Remarkably, in this 5-year period, 23 (2.26%, 95% CI 1.35–3.17) patients (n = 1017) with acute ischemic stroke underwent thrombolysis with intravenous alteplase ( $5 \pm 3$  patients per year on average,  $P = 0.79$ ).

Cited by: 1 Author: Josef Yayan  
Publish Year: 2012

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Author: Mikito Hayakawa

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## Tissue plasminogen activator

Protein



Tissue plasminogen activator is a protein involved in the breakdown of blood clots. It is a serine protease found on endothelial cells, the cells that line the blood vessels. As an enzyme, it catalyzes the conversion of plasminogen to plasmin, the major enzyme resp... +

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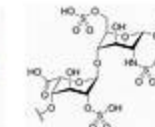
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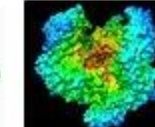
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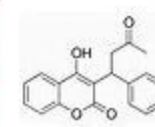
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