

## INTRODUCTION

Acute ischemic stroke (AIS) is the primary cause of permanent disability in elderly people. The characteristics of AIS were high incidence, high disability rate and high recurrence rate<sup>[1-3]</sup>. It is the second leading cause of death after cardiovascular disease<sup>[4,5]</sup>. It is of great clinical significance to predict AIS in an early stage in order to take action to prevent or minimize its harm to patients<sup>[6-8]</sup>. Transient ischemic attack (TIA) is a high risk factor for AIS. It needs to be actively treated to stabilize the disease and prevent the occurrence of AIS. Carotid atherosclerosis is known to be the most important cause of TIA, and the degree of atherosclerosis and microthrombus caused by unstable plaque rupture are closely related to the occurrence of TIA<sup>[9-11]</sup>. To date, systematic researches have been carried out around clinical, biochemical and ultrasonic indicators related to carotid atherosclerosis to predict the occurrence of TIA even AIS<sup>[12-14]</sup>. However, due to individual factors and the influence of different environments, the occurrence of TIA is still not accurately predicted in clinical practice, and its prediction accuracy needs to be further improved. With advances in ultrasound

### Match Overview

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Wall Shear Stress can improve the prediction accuracy of transient ischemic attack



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### Wall shear stress is lower in the carotid artery ...

<https://www.sciencedirect.com/science/article/pii/S0021915005003527>

Furthermore, restricting our data analysis to the patients affected by large-artery **ischemic** stroke presenting the same number of carotid segments with atherosclerosis localizations, the results are almost unchanged (20 patients, 8.6 versus 6.1 dynes/cm<sup>2</sup> of mean **wall shear stress** ...

Cited by: 69

Author: Claudio Carallo, Lucia Francesca Lucca, ...

Publish Year: 2006

### High Coronary Shear Stress in Patients With Coronary ...

<https://www.sciencedirect.com/science/article/pii/S0735109718369432>

Oct 16, 2018 - **Wall shear stress** calculations and vessel-related **myocardial infarction** Median values of WSS prox, WSS total\_lesion, and DS% were significantly higher among patients who had a **VR-MI** compared with the **non-MI control patients** ( $p < 0.05$  for all) ( Table 2 ).

Cited by: 10

Author: Arnav Kumar, Elizabeth W. Thompson, A...

Publish Year: 2018

### Lilly Chapter 6: Ischemic Heart Disease Flashcards | Quizlet

<https://quizlet.com/124964135/lilly-chapter-6-ischemic-heart-disease-flash-cards> ▾

Lilly Chapter 6: Ischemic Heart Disease. STUDY. PLAY. I. Introduction ... **Wall stress** is related to intraventricular pressure (P), the radius of the ventricle (r), and ventricular **wall thickness** (h) and is approximated by Laplace's relationship: ... If it is possible to examine a patient during an anginal **attack**, several **transient** physical ...

### Stress Analysis of Carotid Atheroma in Transient Ischemic ...

[https://www.researchgate.net/publication/51100322\\_Stress\\_Analysis\\_of\\_Carotid\\_Atheroma...](https://www.researchgate.net/publication/51100322_Stress_Analysis_of_Carotid_Atheroma...)

The results showed that **wall shear stress** is generally low in the artery with a **slight increase** at the plaque throat owing to minor luminal narrowing. The **oscillatory shear index** is much higher in ...