

# Cerebrovascular events in adult Takayasu arteritis

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<b>Registration date</b> 27/02/2025	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 27/02/2025	<b>Condition category</b> Circulatory System	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Takayasu arteritis (TA) is a disease that causes inflammation in large blood vessels, mainly the aorta and its main branches. The cause of TA is unknown. Because TA is rare, we don't fully understand the symptoms and long-term effects in Chinese adults who have cardiovascular events (CVEs). This study aimed to (1) describe the clinical features of CVEs in adults with TA; and (2) summarize the treatment methods and outcomes for stroke patients, focusing on death rates and the chances of having another stroke or transient ischemic attack (TIA).

### Who can participate?

Inpatients aged 18 years and over who were admitted to hospital with TA

### What does the study involve?

The researchers reviewed the medical records of patients with TA who underwent aortic angiography, computed tomography angiogram (CTA) or magnetic resonance angiography (MRA) between January 2000 to December 2024. The incidence, clinical features, management strategy and prognosis of these patients were evaluated.

### What are the possible benefits and risks of participating?

This is a retrospective study. There are no possible benefits or risks of participating.

### Where is the study run from?

Affiliated Chuiyangliu Hospital of Tsinghua University.

### When is the study starting and how long is it expected to run for?

January 2025 to February 2025

### Who is funding the study?

Investigator initiated and funded

### Who is the main contact?

Prof. Junting Huo, [huojunting301@163.com](mailto:huojunting301@163.com)

# Contact information

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Scientific

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# Additional identifiers

## Clinical Trials Information System (CTIS)

Nil known

## Protocol serial number

Nil known

# Study information

## Scientific Title

Clinical characteristics and outcomes of cerebrovascular events in adult Takayasu arteritis: a cohort study of 182 patients

## Study objectives

Because of the rarity of Takayasu arteritis (TA), clinical characteristics and long-term outcomes of Chinese adult TA patients with cerebrovascular events (CVEs) have not been fully elucidated. This study aimed to:

1. Describe the ratio and clinical features of CVEs in adult TA patients

2. Summarize the therapeutic strategy and the prognosis of stroke patients, focusing on mortality and recurrence of stroke/transient ischaemic attack (TIA).

### **Ethics approval required**

Ethics approval required

### **Ethics approval(s)**

approved 05/12/2024, Ethics committee of Chuiyangliu Hospital (Chuiyangliu South Street 2, Beijing, 100022, China; +86 (0)10 6770 0622; chuiyangliucyl@163.com), ref: SOP-CYLIRB-2.0

### **Study design**

Observational cohort study

### **Primary study design**

Observational

### **Study type(s)**

Other

### **Health condition(s) or problem(s) studied**

Cerebrovascular events in adult Takayasu arteritis

### **Interventions**

The researchers retrospectively collected 1071 TA subjects and enrolled the patients with CVEs between January 2000 and December 2024. The incidence, clinical features, management strategy and prognosis of these patients were evaluated.

### **Intervention Type**

Other

### **Primary outcome(s)**

All-cause mortality at 1, 6, 12 months and every year, collected from medical records

### **Key secondary outcome(s)**

Recurrence of stroke/TIA at 1, 6, 12 months and every year, collected from medical records

### **Completion date**

21/02/2025

## **Eligibility**

### **Key inclusion criteria**

Adult patients with TA fulfilling the criteria of the American College of Rheumatology

### **Participant type(s)**

Patient

### **Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Upper age limit**

100 years

**Sex**

All

**Total final enrolment**

182

**Key exclusion criteria**

Clinical remission criteria: absence of new symptoms and normalized erythrocyte sedimentation rate (ESR) and C-reactive protein (CRP)

**Date of first enrolment**

01/01/2000

**Date of final enrolment**

31/12/2024

**Locations****Countries of recruitment**

China

**Study participating centre**

**Affiliated Chuiyangliu Hospital of Tsinghua University**

Department of Neurology

Chuiyangliu South Street

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**Sponsor information****Organisation**

Affiliated Chuiyangliu Hospital of Tsinghua University

## **Funder(s)**

### **Funder type**

Other

### **Funder Name**

Investigator initiated and funded

## **Results and Publications**

### **Individual participant data (IPD) sharing plan**

The participant-level data is expected to be made available in the published paper.

### **IPD sharing plan summary**

Published as a supplement to the results publication