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Cerebrovascular events in adult Takayasu arteritis

Submission date	Recruitment status	[ ] Prospectively registered
21/02/2025	No longer recruiting	[ ] Protocol
Registration date	**Overall study status**	[ ] Statistical analysis plan
27/02/2025	Completed	[ ] Results
Last Edited	**Condition category**	[ ] Individual participant data
27/02/2025	Circulatory System	[ ] 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?
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Contact information

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Public, Principal investigator

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Scientific

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Additional identifiers

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

Primary study design
Observational

Study design
Observational cohort study

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
Beijing
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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