1. Answer the questions in English after reading the following article.

Modified from, Endovascular management of acute stroke. Nguyen TN, et al. Lancet. 2024 Sep 28;404(10459):1265-1278.

1-1 According to the passage, are the following sentences TRUE (T) or FALSE (F)?

A) The ischemic core is the region with reduced blood flow but that can remain viable due to collateral circulation.

B) The penumbra refers to the area of brain tissue with no blood flow, and is always irreversibly damaged.

C) The "no-reflow phenomenon" refers to the inability to restore blood flow in large arteries, leading to persistent deficits.

D) The goal of intravenous thrombolysis or endovascular therapy is to restore blood flow to the penumbra and prevent tissue death.

E) Restoration of neurological function is the ultimate goal of reperfusion therapy.

1-2 In <u>70 words or less</u>, explain in your own words why, according to this article, more than half of patients with large vessel occlusion fail to regain functional independence after successful reperfusion.

2. Answer the question in English after reading the following article.

Modified from, A systematic review and meta-analysis of gene therapy with hematopoietic stem and progenitor cells for monogenic disorders. Tucci F et al. Nat Commun. 2022 Mar 14;13(1):1315.

2-1 Write <u>at least 70 words</u> describing the concept and current status of autologous HSPC gene therapy.

3. Answer the question in English after reading the following article.

[text redacted]

Modified from, Tourism as a catalyst for Japan's economic growth and the impact of overtourism. Hirabayashi T, EY Japan, 2025 Mar 04.

3-1 Write <u>at least 70 words</u> summarizing the main points and discussing your opinion on how Japan can balance the economic benefits of inbound tourism with the problems caused by overtourism.

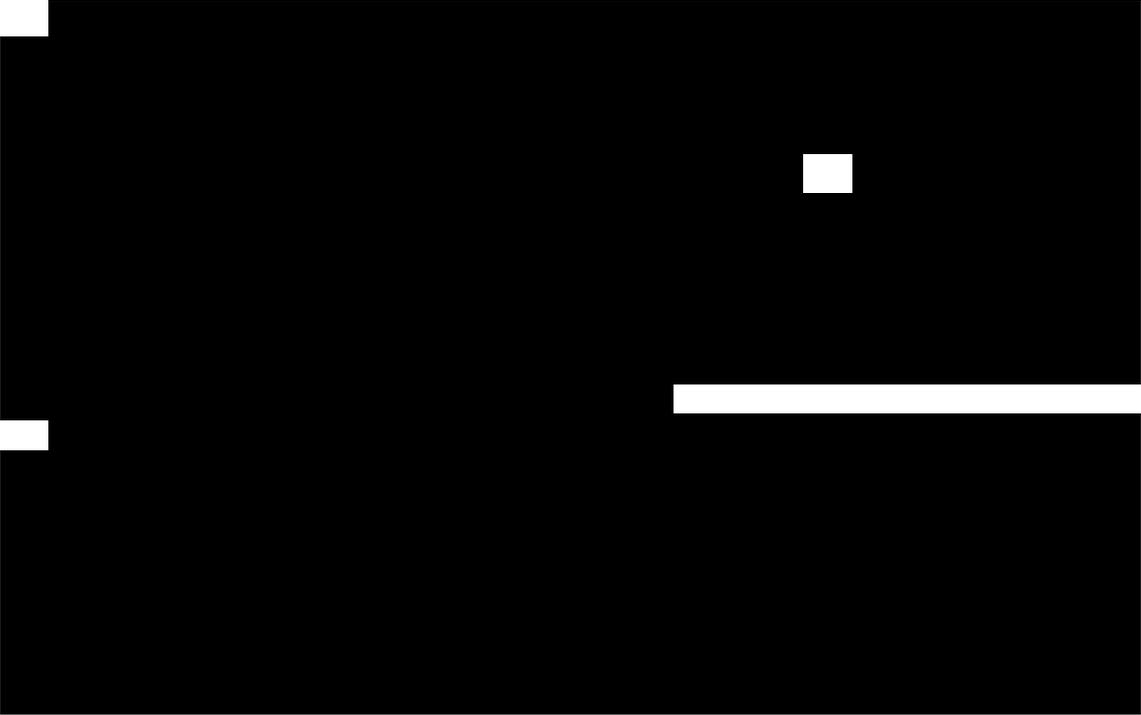**1. Answer the questions in English after reading the following article.**

Modified from, Reversing Oral Anticoagulation in Intracerebral Hemorrhage. Smith WS, et al. N Engl J Med. 2024 May 15; 390:1815-1816.
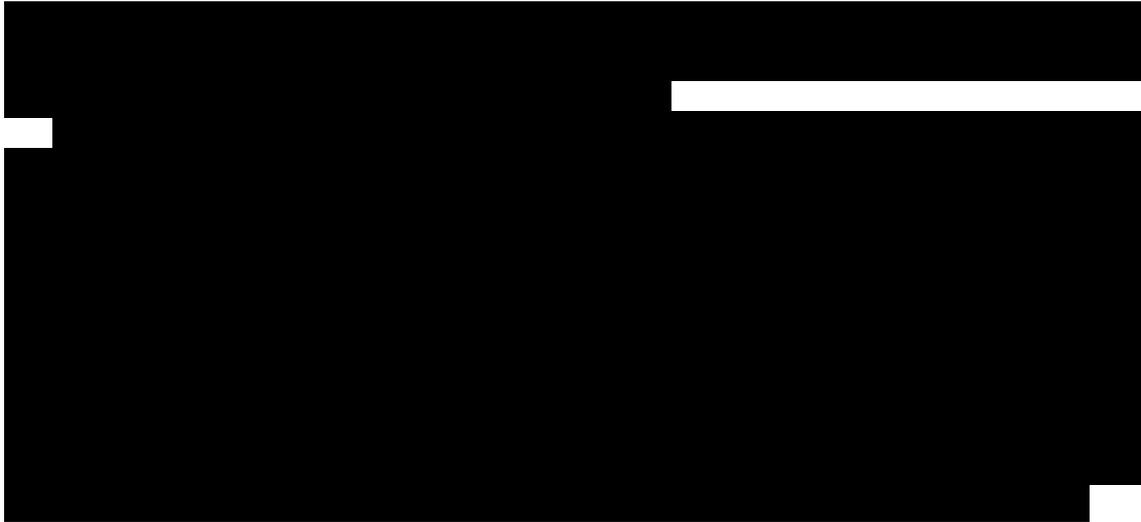
1-1 According to the passage, are the following sentences TRUE (T) or FALSE (F)?
A) Andexanet showed greater hemostatic efficacy than usual care in the ANNEXA-I trial.
B) All patients in the control group received prothrombin complex concentrate.
C) The ANNEXA-I trial was primarily designed to evaluate 30-day mortality outcomes.
D) Patients with small hematoma volumes and mild-to-moderate neurological deficits were included in the trial.
E) Andexanet reduced the risk of thrombotic events compared to usual care.

1-2 In 70 words or more, explain the main advantages and disadvantages of using andexanet in the treatment of intracerebral hemorrhage, as described in this article. Avoid simply copying from the passage.

2. Answer the question in English after reading the following article.

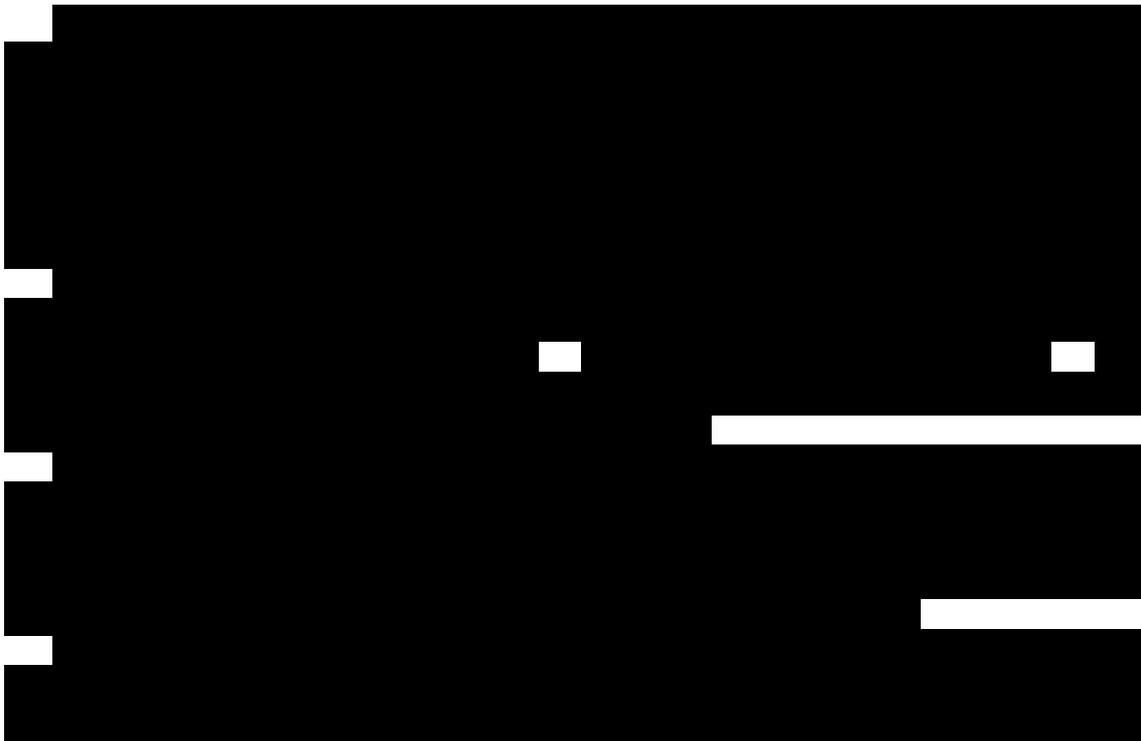**Modified from, Chronic Immune-related Adverse Events Arising from Immune Checkpoint Inhibitors: an Update. Fletcher K et al. J Immunother Cancer. 2024 Jul 4;12(7):e008591.**

2-1 Write at least 70 words describing both the acute and long-term immune-related adverse effects (irAEs) associated with immune checkpoint inhibitors. Avoid simply copying from the passage.

3. Answer the question in English after reading the following article.

Modified from, Issues for Regulating Working Hours in the Post Work-Style-Reform Era. Hosokawa R, Japan Labor Issues, vol.9, no.51, Winter 2025.

3-1 Write at least 70 words describing the current state and remaining challenges of Japan's work style reform in your own words, and discuss how these challenges should be addressed and what future steps should be taken.