The Burden of Stroke in the Czech Republic

Based on the findings of *The Burden of Stroke in Europe* report conducted by King’s College London for the Stroke Alliance for Europe

Population: 10,674,947
Healthcare cost of stroke in the Czech Republic = €365.8 million (€35 per capita)

### Treatment landscape:

- **The Neurological Society of JEP and the Ministry of Health have developed national stroke guidelines, and secondary stroke prevention guidelines exist.**
- **Stroke rehabilitation is conducted by a multiprofessional team with a stroke doctor, physiotherapist, speech therapist and an occupational therapist, plus dietetic and nursing staff.**
- **Time is Brain campaign led by the Czech Stroke Society and the Czech Society of Interventional Radiology and supported by pharma companies – started in 2016.**

- 10 Comprehensive and 32 Primary stroke centres in operation, with an estimated 85% of stroke patients treated in stroke units.
- HOBIT Programme aims to increase the awareness of stroke symptoms and an appropriate response in school children.

### Stroke in the Czech Republic:

- **Incidence:** 18,455 strokes per year
  - 106.8 strokes per 100,000 inhabitants annually
- **Prevalence:** 96,833 strokes
  - 597.9 strokes per 100,000 inhabitants
- **Mortality:** 13,148 deaths due to stroke per year
  - 70.0 deaths per 100,000 inhabitants annually

### Estimated increase 2015–2035:

- **Incidence:** 45%
- **Prevalence:** 22%
- **Deaths:** 70%
- **DALYs Lost:** 45%

### Risk factor prevalence:

- **High blood pressure:** 33.2%
- **High cholesterol:** 53.9%
- **Smoking:** 33.4%
- **Raised glucose:** 9.6%

Since 2006 the Czech Stroke Society has hosted educational campaigns promoting stroke awareness.

### Anticoagulant treatment rates:

No data has been published to demonstrate the use of oral anticoagulants in the Czech Republic, however:

- **Official approval for thrombolysis has existed since 2004.**
- **Recent figures show a 10.9% thrombolysis rate in ischaemic stroke patients admitted to stroke units nationally.**