Intracerebral Hemorrhage Mortality

Intracerebral hemorrhage (ICH) is associated with **high early mortality** and poor long-term outcomes, making it one of the deadliest types of stroke.

Early Mortality

- 30-day mortality: ~35-50%
 - Most deaths occur in the first 2 days, often due to hematoma expansion, herniation, or brainstem involvement.
- **In-hospital mortality**: ~**20-30%**, depending on hematoma volume, location, and patient comorbidities.
- Higher mortality seen in:
 - Brainstem and cerebellar hemorrhages
 - ∘ Large hematomas (>30-60 mL)
 - Intraventricular extension
 - Depressed level of consciousness at admission (GCS < 8)

Long-Term Outcomes

- 1-year survival: ~35-40%
- Only **10-20%** of survivors regain **functional independence** (modified Rankin Score ≤2).
- Risk of death remains elevated for months due to recurrent stroke, infections, and comorbid conditions.

Predictors of Mortality

- Age > 80 years
- Low Glasgow Coma Scale at presentation
- · Large hematoma volume
- Infratentorial location
- Intraventricular hemorrhage
- High blood pressure on admission
- Lack of early surgical or ICU management when indicated

Prognostic Tools

- ICH Score: validated clinical tool to estimate 30-day mortality based on:
 - \circ GCS
 - Age
 - o Hematoma volume
 - Intraventricular extension
 - Infratentorial origin

 $update: \\ 2025/07/04 intracerebral_hemorrhage_mortality\ https://neurosurgerywiki.com/wiki/doku.php?id=intracerebral_hemorrhage_mortality\&rev=1751605569$

Related Sections

- Intracerebral hemorrhage definition
- ICH Score
- Intracerebral hemorrhage management

PM2.5 exposure—particularly household-related in low SDI regions—continues to drive significant intracerebral hemorrhage mortality and morbidity despite global reductions in age-standardized rates. Disparities persist, with low SDI areas experiencing a 24.7-fold higher ASMR than high SDI regions. Projections indicate a resurgence in PM2.5-related ICH burden by 2050, emphasizing the need for tailored public health interventions targeting APMP and HAP, especially in Asia and Sub-Saharan Africa

Wu E, Su R, Tang T, Zhu G, Geng D. Ambient versus household PM2.5 exposure and socioeconomic disparities in intracerebral hemorrhage burden: a 32-year global analysis (1990-2021) with projections to 2050. Front Public Health. 2025 Jun 18;13:1615934. doi: 10.3389/fpubh.2025.1615934. PMID: 40606082; PMCID: PMC12213839.

https://neurosurgerywiki.com/wiki/ - Neurosurgery Wiki

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=intracerebral_hemorrhage_mortality&rev=1751605569

Last update: 2025/07/04 05:06

