

ACUTE ISCHEMIC STROKE - Practical Quick Reference (2026)

American Heart Association / American Stroke Association (AHA/ASA) 2026 Guideline

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Time Targets (System Goals)

Milestone	Target
Door → CT (Computed Tomography)	≤ 25 min
Door → Needle (Intravenous Thrombolysis, IVT)	≤ 60 min
Door → Groin (Endovascular Therapy, EVT)	≤ 90 min

Principle: Imaging-guided decisions + minimize delay

IV Thrombolysis (IVT ≤ 4.5 Hours)

Drug	Dose	Administration
Alteplase (rtPA)	0.9 mg/kg (max 90 mg)	10% bolus → infusion over 60 min
Tenecteplase (TNK)	0.25 mg/kg (max 25 mg)	Single IV bolus

✓ **Alteplase OR Tenecteplase → both guideline-endorsed options (Class I for IVT overall)**

→ **TNK often favored in LVO / transfer scenarios** (single bolus, workflow advantage)

⚠ **TNK stroke dose ≠ STEMI dose**

Thrombolysis Eligibility

✓ Include

- Disabling neurologic deficit
- Onset ≤ 4.5 h
- No hemorrhage on CT
- BP $< 185/110$ mmHg

✗ Exclude (core)

- Intracranial hemorrhage (ICH)
- Recent ICH or major surgery (< 3 months)
- Platelets $< 100,000/\mu\text{L}$
- INR > 1.7
- Active bleeding

⚠ **Consider: DOAC timing / anti-Xa activity**

✗ Non-disabling deficit

→ IVT **not** beneficial

→ Prefer **Dual Antiplatelet Therapy (DAPT)**

Extended Window Thrombolysis

Scenario	Recommendation	Requirement
4.5–9 h	Reasonable (Class IIa)	CT/MRI perfusion mismatch
Wake-up stroke	Reasonable (Class IIa)	DWI–FLAIR mismatch

Key concept: Imaging-based selection (not time alone)

Mechanical Thrombectomy (EVT)

0–6 Hours → Class I

- LVO (ICA / M1 segment)
- NIHSS ≥ 6
- ASPECTS ≥ 6

6–24 Hours → Expanded Eligibility

- Imaging-based selection (core–penumbra mismatch)
- Criteria **less restrictive than earlier guidelines**

NEW Basilar Artery Occlusion → Class I

- $EVT \leq 24 \text{ h}$
- $NIHSS \geq 10$
- **Requires appropriate imaging selection (not automatic for all)**

Large-Core Infarct

- **No longer absolute exclusion**
- **EVT may benefit selected patients** (individualized decision)

Bridging Strategy

- If IVT + EVT indicated → **give IVT first (no delay)**

- TNK often preferred in transfer scenarios

⚠ Direct EVT without IVT → **may be considered in selected cases** (not routine)

Blood Pressure Targets

Situation	Target
Before IVT	< 185/110 mmHg
After IVT (first 24 h)	< 180/105 mmHg
After EVT	< 180 mmHg (individualized; avoid SBP < 140)
No IVT / No EVT	≤ 220/120 mmHg (permissive hypertension)

⚠ Do NOT lower SBP < 140 mmHg early (harm signal)

Immediate General Care

Parameter	Target / Action
Glucose	140–180 mg/dL
Oxygen	Only if SpO ₂ < 94%
Temperature	Treat fever > 37.5°C

Parameter	Target / Action
Swallowing	Screen before oral intake (NPO)
DVT prophylaxis	Intermittent pneumatic compression

Antiplatelet Therapy

- Start after ≥ 24 h + repeat imaging (exclude hemorrhage)
- Aspirin: 160–325 mg

Key Clinical Pearls

- Imaging > time (major paradigm shift)
- TNK simplifies workflow (single bolus)
- EVT expanded — including large-core & basilar occlusion
- **Do NOT delay EVT for IVT**
- Avoid over-aggressive BP reduction — especially post-EVT