

MANAGEMENT OF ANGIOEDEMA CAUSED BY ALTEPLASE (tPA) USE IN ACUTE ISCHEMIC STROKE

Background:

- > Reported in 1.3% of patients treated with IV Alteplase (tPA) for acute stroke.
- Has been associated with Angiotensin-Converting Enzyme (ACE) inhibitor therapy and with a past medical history of angioedema reactions.
- Usually the reaction is observed approximately 45 to 90 minutes after the Alteplase (tPA) infusion was started.
- Patients usually report dysphagia and unilateral tongue swelling (usually to the same side as the hemiplegia). Progression to the entire tongue and oropharynx may occur.

Risk Assessment:

- > Has the patient ever experienced angioedema in the past?
- Is the patient on an ACE inhibitor or Angiotensin receptor blockers (ARB)?

	Benazepril (lotensin)	Fosinopril (monopril)	Ramapril (altace)	Valsartan (diovan)
	Captopril	Lisinopril (zestril)	Trandolapril (mavik)	Epoprosartan (teveten)
ſ	Cilazapril (inhibace)	Perindopril (coversyl)	Candesartan (atacand)	Telmisartan (micardis)
ſ	Enalapril (vasotec)	Quinapril (accupril)	Irbesartan (avapro)	Losartan (cozaar)

> NB: Consider combination medications of diuretic and ACE inhibitor or ARB (e.g. Vasoretic).

Monitoring Parameters:

- Observe for facial, tongue and/or pharyngeal angioedema 30 min, 45 min, 60 min and 75 min after the start of the IV Alteplase (tPA) infusion and periodically for 24 hours afterwards.
- Monitor vital signs during infusion and for 24 hours after as per Stroke Centre Alteplase (tPA) Standard Orders (CLI.4110.PL.013.FORM.10)

Management as Ordered by Authorized Prescriber:

- Stop the infusion.
- > Follow the algorithm below (recommended).

