

ALTEPLASE, RECOMBIVANT (Activase)(TPA) for Acute Myocardial Infarction



20:12.20 – Thrombolytic Agents

PHARMACY PREPARATION:

- Mix 100 mg Alteplase vial with 100 ml SW provided. Final concentration is 1 mg per 1 ml
 - Insert one end of transfer device (provided) into upright vial of diluent (do not invert diluent vial yet)
 - Hold alteplase vial upside down and push center of vial down onto piercing pin
 - Invert vial and allow diluent to flow into alteplase. ~ 0.5 mL of SW will remain in diluent vial
 - Swirl gently to dissolve. DO NOT SHAKE. Process takes several minutes.
 - Draw out bolus dose from new puncture site into a syringe and label.
 - Remove from the vial any quantity of drug in excess of that specified for the patient and label the vial. Discard any unused solution.

STABILITY:

- Expiration: 8 hours
- Prepare just before use

ADMINISTRATION:

- The total dose is based on patient weight and should not exceed 100 mg. There are two dose regimens (accelerated and 3-hour)
- Accelerated Infusion: Consists of an IV bolus followed by infusion

Patient Weight	Bolus	First 30 minutes	Next 60 minutes
Greater than 67 kg (147.5 lb)	15 mg	50 mg	35 mg
Less than or equal to 67 kg (147.5 lb)	15 mg	0.75 mg/kg	0.5 mg/kg

- 3-Hour Infusion:

Patient Weight	Bolus	Rest of 1 st hour	2 nd hour	3 rd hour
Greater than or equal to 65 kg (143 lb)	6-10 mg	50-54 mg	20 mg	20 mg
Less than 65 kg (143 lb)	0.075 mg/kg	0.675 mg/kg	0.25 mg/kg	0.25 mg/kg

- When the alteplase vial is empty, a minimum of 25ml bag of normal saline will be spiked with the end of the alteplase infusion set. This should continue to be administered at the same rate.

INFUSION:

- Use of filters or filter needles not recommended
- Insert spike end of infusion set through puncture site in reconstituted vial. Hang vial from plastic molded capping that is attached to the bottom of the vial.