

STEMI Alteplase Thrombolytic Protocol

- Determine alteplase dosage by weight. Use table A.
- Patient Weight _____ kg
- Alteplase total dose is not to exceed 100 mg
- Refer to the Zone Parenteral Manual for alteplase monitoring requirements

Order initial and serial lab testing and ECG orders per Zone STEMI orders

Alteplase:

- Using the diluent provided, reconstitute alteplase 100 mg medication to create a final concentration of **alteplase 1 mg/ml**. Dissolve (DO NOT SHAKE vigorously) - turn vial over and allow to mix
- Give dosage as per weight in Table A.

Time	RN Initials	CHECKLIST
Thrombolytic Medication (refer to table A for volumes and rates)		
		Alteplase BOLUS dose 15 mg / 15 mL direct IV bolus over 2 minutes .
		Alteplase 0.75 mg/kg FIRST infusion _____ mg intermittent infusion over 30 minutes (MAX dose 50 mg).
		Alteplase 0.5 mg/kg SECOND infusion _____ mg intermittent infusion over 60 minutes (MAX dose 35 mg).
		FLUSH Remove alteplase bottle and hang a normal saline minibag to flush the remaining medication within the tubing

Alteplase with enoxaparin protocol

Enoxaparin should NOT be used in patients with creatinine clearance less than 30 mL/min. Unfractionated heparin should be used in these patients (proceed to next section).

Anticoagulants and antiplatelets					
Date/Time	Initials	Patients <u>74 years</u> of age and less	Date/Time	Initials	Patients <u>75 years</u> of age and above
		ASA <input type="checkbox"/> acetylsalicylic acid CHEW tab 160 mg once STAT <i>if not given by EMS</i> <input type="checkbox"/> acetylsalicylic acid EC tablet 81 mg once daily			ASA <input type="checkbox"/> acetylsalicylic acid CHEW tab 160 mg once STAT <i>if not given by EMS</i> <input type="checkbox"/> acetylsalicylic acid EC tablet 81 mg once daily
		Enoxaparin 30 mg direct IV x 1 dose; prior to administration of alteplase.			DO NOT give Enoxaparin IV - risk of intracranial hemorrhage in elderly patients.
		Enoxaparin 1 mg/kg (Maximum dose 100 mg) subcutaneously in the abdomen. Enoxaparin _____ mg given subcutaneously within 30 minutes of initiating alteplase infusion then q12h x 48 hrs, then reassess. (Max subcutaneous dose does <u>not</u> include IV dose)			Enoxaparin 0.75 mg/kg (Maximum dose 75 mg) subcutaneously in the abdomen. Enoxaparin _____ mg given subcutaneously within 30 minutes of initiating alteplase infusion then q12h x 48 hrs, then reassess.
		Clopidogrel 300 mg orally x 1 dose followed by clopidogrel 75 mg once daily			Clopidogrel 75 mg orally x 1 dose followed by clopidogrel 75 mg once daily

OR

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Alteplase with unfractionated heparin protocol

Suggested for patients with creatinine clearance <30 mL/min.

Anticoagulants and antiplatelets					
Date/Time	Initials	Patients <u>74 years</u> of age and less	Date/Time	Initials	Patients <u>75 years</u> of age and above
		ASA <input type="checkbox"/> acetylsalicylic acid CHEW tab 160 mg once STAT <i>if not given by EMS</i> <input type="checkbox"/> acetylsalicylic acid EC tablet 81 mg once daily			ASA <input type="checkbox"/> acetylsalicylic acid CHEW tab 160 mg once STAT <i>if not given by EMS</i> <input type="checkbox"/> acetylsalicylic acid EC tablet 81 mg once daily
		Unfractionated heparin – initiate once alteplase is infusing. Refer to zone unfractionated heparin cardiology protocol.			Unfractionated heparin – initiate once alteplase is infusing. Refer to zone unfractionated heparin cardiology protocol.
		Clopidogrel 300 mg orally x 1 dose followed by clopidogrel 75 mg once daily			Clopidogrel 75 mg orally x 1 dose followed by clopidogrel 75 mg once daily

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Table A. Alteplase (Activase®) 1 mg/mL Dosage and Electronic Infusion Device Settings

Patient Weight (kg)	Buretrol Option: Place total volume for first and second infusion into container (mL)	Specific Dosages Administered as a 15 mg bolus dose followed by a 30 minute infusion then a 60 minute infusion	Infusion Rate Setting (mL/hr)	Volume to be infused (mL)	Total Dose (mL)	Amount left in 100 mg vial (mL)
41-42	52	1. Bolus: 15 mg (15 mL) IV over 2 minutes			67	33
		2. First Infusion: 31 mg IV over 30 minutes	62	31		
		3. Second Infusion: 21 mg IV over 60 minutes	21	21		
43-44	54	1. Bolus: 15 mg (15 mL) IV over 2 minutes			69	31
		2. First infusion: 32 mg IV over 30 minutes	64	32		
		3. Second Infusion: 22 mg IV over 60 minutes	22	22		
45-47	57	1. Bolus: 15 mg (15 mL) IV over 2 minutes			72	28
		2. First infusion: 34 mg IV over 30 minutes	68	34		
		3. Second Infusion: 23 mg IV over 60 minutes	23	23		
48-49	60	1. Bolus: 15 mg (15 mL) IV over 2 minutes			75	25
		2. First infusion: 36 mg IV over 30 minutes	72	36		
		3. Second infusion: 24 mg IV over 60 minutes	24	24		
50-51	63	1. Bolus: 15 mg (15 mL) IV over 2 minutes			78	22
		2. First infusion: 38 mg IV over 30 minutes	75	38		
		3. Second infusion: 25 mg IV over 60 minutes	25	25		
52-54	65	1. Bolus: 15 mg (15 mL) IV over 2 minutes			80	20
		2. First infusion: 39 mg IV over 30 minutes	78	39		
		3. Second infusion: 26 mg IV over 60 minutes	26	26		
55-56	68	1. Bolus: 15 mg (15 mL) IV over 2 minutes			83	17
		2. First infusion: 41 mg IV over 30 minutes	82	41		
		3. Second infusion: 27mg IV over 60 minutes	27	27		
57-58	71	1. Bolus: 15 mg (15 mL) IV over 2 minutes			86	14
		2. First infusion: 43 mg IV over 30 minutes	86	43		
		3. Second infusion: 28 mg IV over 60 minutes	28	28		
59-60	73	1. Bolus: 15 mg (15 mL) IV over 2 minutes			88	12
		2. First infusion: 44 mg IV over 30 minutes	88	44		
		3. Second infusion: 29 mg IV over 60 minutes	29	29		
61-63	76	1. Bolus: 15 mg (15 mL) IV over 2 minutes			91	9
		2. First infusion: 46 mg IV over 30 minutes	92	46		
		3. Second infusion: 30 mg IV over 60 minutes	30	30		
64-65	80	1. Bolus: 15 mg (15 mL) IV over 2 minutes			95	5
		2. First infusion: 48 mg IV over 30 minutes	96	48		
		3. Second infusion: 32 mg IV over 60 minutes	32	32		
66-67	83	1. Bolus: 15 mg (15 mL) IV over 2 minutes			98	2
		2. First infusion: 50 mg IV over 30 minutes	100	50		
		3. Second infusion: 33 mg IV over 60 minutes	33	33		
>67	85	1. Bolus: 15 mg (15 mL) IV over 2 minutes			100	0
		2. First infusion: 50 mg IV over 30 minutes	100	50		
		3. Second infusion: 35 mg IV over 60 minutes	35	35		

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