

ROUTINE ORDERS – Alteplase for Acute Ischemic Stroke for 4.5 hour window

Prescriber instructions: 1) The prescriber MUST check an empty box (□) to activate the corresponding order. 2) An order with a black box ■ will be activated UNLESS the prescriber crosses out the complete order with a line and initials.					als.
Date:					
year/month/day	Time:	Weight (kg):	Allergies: □ None □Yes	rder #	Initials
y a series a series and	-		Review electronic record	*Order #	Init
Advance Cons Directive		Height (cm):			
Advance Care Directive	Agginian Makar	// dyanaa Diraatiya/Cara	Wigh Form has been completed and is in	Г	
	ecision iviaker	/Advance Directive/Care	e Wish Form has been completed and is in		
chart A DMINISTRAT	ION				
PRIOR TO ADMINISTRATION				Т	
Exclusion criteria for alteplase and endovascular treatment reviewed (see over) Benchmark: Door to					
Triage 1 minute					
 ■ Notify Stroke Team Benchmark: Door to Stroke Team 15 minutes ■ Establish 2 peripheral IV sites in same arm if possible 					
			ectrolytes, BUN, Creatinine, eGFR		
☐ Pregnancy test - serum b			octrolytoo, Bort, Groathino, Gor It		
■ ECG		on on a market and any			
☐ Chest x-ray if evidence of	of acute heart of	disease or pulmonary dis	sease		
			A) Benchmark: Door to CT, CTA scan 25		
minutes					
■ Emergency consent for C					
Most responsible physici					
			05 mmHg notify MRP and give:		
Labetalol 10 mg IV over	1-2 minutes (n	nay repeat q10min up to	maximum cumulative dose of 150 mg) or		
			rt on back to verify calculations		
TOTAL DOSE: 0.9 mg/kg			mg		
BOLUS: 0.09 mg/kg Alteplase IV over 1 minute (to maximum 9 mg) =mg					
– INFUSION: 0.81 mg/kg Alteplase IV over 1 hour (to maximum 81 mg) =mg					
Diet				Г	
■ NPO except for medications x 24 hrs					
Activity ■ Bedrest x 24 hrs				Т	
	<u>a</u>				
Vital Signs and Monitoring ■ Vital Signs and Canadian Neurological Scale q15min during administration, then q30min x 2 hrs, then q1h x				I	
5 hrs, then q4h	i Neurologicai	Scale q isinin during adi			
■ Observe tongue and oropharynx q15min x 6. If facial, tongue and/or pharyngeal angioedema, stop infusion					
and notify physician					
■ Continuous cardiac monitoring					
Lines/Tubes/Respiratory					
■ O₂ to keep SaO₂ greater than 92%					
Intravenous Fluids					
■ IV Normal Saline mL/hr					
Lab work and Diagnostics					
■ CT scan of head post Alteplase within 24 hours					
Medication					
No anticoagulants or antiplatelet drugs for at least 24 hours after alteplase (e.g. ASA, heparin,					
dalteparin, tinzaparin, enoxaparin, warfarin, rivaroxaban, dabigitran, apixaban, ticlopidine, clopidogrel,					
prasugrel, ticagrelor, dipyridamole).					
■ DimenhyDRINATE 25-50 mg IV q4h prn					
Acetaminophen 650 mg PO/rectal q4h prn if temp greater than 37.5°C					
■ If SBP is greater than 180 mmHg and/or DBP is greater than 105 mmHg notify MRP and give:					
Labetalol 10 mg IV over 1-2 minutes (may repeat q10min up to maximum cumulative dose of 150 mg) or					

^{*} Enter Order # and initial (by Nurse/Clerical)

Prescriber Signature:	Date:	Time:	
Transcriber Signature:	Date:	Time:	
Nurse Reviewer Signature:	Date:	Time:	

ROUTINE ORDERS - Alteplase (rt-PA) for Acute Ischemic Stroke for 4.5 hour window

EXCLUSION CRITERIA

Diagnosis, work-up and start of administration of Alteplase must be accomplished within 4.5 hours of the onset of symptoms.

- * All answers to the following exclusion must be NO to be a candidate for Alteplase
- ***Relative Exclusion Criteria for Alteplase
- ** Exclusion for Alteplase but patients may still be eligible for Endovascular Therapy depending on CTA results

Emergency Department

Emergency Department				
Onset of symptoms was greater than 4 hours: a. Onset of symptoms was witnessed OR	YES	NO		
b. Last seen normal				
Pericarditis within last 3 months				
3. Myocardial infarct (MI) within the last 3 weeks				
History of intracranial hemorrhage, arteriovenous malformation or aneurysm				
Chest pain with neurological event suggestive of aortic dissection or MI				
6. **Major surgery within last 14 days	YES	NO		
7. **Serious head trauma or intracranial surgery within the last 3 months	YES	NO		
8. **Use of anticoagulants in the previous 48 hrs in conjunction with an INR greater than 1.7 Note : Use of antiplatelet agents is not a contraindication	YES	NO		
9. **Use of oral direct thrombin inhibitor agents or factor Xa inhibitors, e.g. dabigatran, rivaroxaban, apixaban	YES	NO		
10. **Gastrointestinal or urinary bleeding within 21 days, or active internal bleeding	YES	NO		
Attending Physician				
11. Clinical presentation consistent with subarachnoid hemorrhage even if CT scan normal				
12. CT evidence of cerebral hemorrhage or cerebral infarction with ASPECT score less than 5				
13. Blood pressure greater than 180/105, despite 23 doses of Labetalol IV (See Orders)				
14. CT shows hemorrhage or mass effect	YES	NO		
15. Other illness that could limit effectiveness or increase risk of bleeding in the judgment of the physician	YES	NO		
16. Platelet count less than 100,000				
17. **Glucose less than or equal to 2.7 mmol/L or greater than 22.2 mmol/L				
18. **Seizure preceding onset of neurologic deficits				
19. **Rapidly improving neurological signs or minimal deficit. (NIHSS less than 4)	YES	NO		
20. **Profound stroke with obtundation, fixed eye deviation and complete hemiplegia (NIHSS greater than 25)	YES	NO		
21. **Arterial puncture at non-compressible site (e.g. subclavian artery or vein); exclude patients only if there is a significant risk of hemorrhage at a site we could not control or lumbar puncture within last 7 days.	YES	NO		
22. **On IV heparin and have PTT greater than 40				
23. **Low molecular weight heparin at full anticoagulant levels				
24. ***Less than 18 years of age				
25. ***Pregnancy				
Stroke Endoves autor Machanical Thrombostomy (EVT) Critoria				

Stroke Endovascular Mechanical Thrombectomy (EVT) Criteria:

• Acute ischemic stroke of large proximal artery occlusion (Internal Carotid Artery, Middle Cerebral Artery or Basilar Artery) and symptom onset less than 4.5 hours

If EVT candidate, contact Hamilton General Hospital via Criticall to determine eligibility.



Alteplase Weight Dosing Chart

Patient Weight		TOTAL DOSE 0.9 mg/kg	INFUSION 0.81 mg/kg	BOLUS 0.09 mg/kg	
kg	lbs	(Dose in mg= VTBI [*] in mL)	over 1 hr (Dose in mg= VTBI [*] in mL)	over 1 min (Dose in mg= VTBI [*] in mL)	
41	90	36.9	33.2	3.69	
42	92	37.8	34.0	3.78	
43	95	38.7	34.8	3.87	
44	97	39.6	35.6	3.96	
45	99	40.5	36.5	4.05	
46	101	41.4	37.3	4.14	
47	103	42.3	38.1	4.23	
48	106	43.2	38.9	4.32	
49	108	44.1	39.7	4.41	
50	110	45	40.5	4.5	
51	112	45.9	41.3	4.59	
52	114	46.8	42.1	4.68	
53	117	47.7	42.9	4.77	
54	119	48.6	43.7	4.86	
55	121	49.5	44.6	4.95	
56	123	50.4	45.4	5.04	
57	125	51.3	46.2	5.13	
58	128	52.2	47.0	5.22	
59	130	53.1	47.8	5.31	
60	132	54	48.6	5.4	
61	134	54.9	49.4	5.49	
62	136	55.8	50.2	5.58	
63	139	56.7	51.0	5.67	
64	141	57.6	51.8	5.76	
65	143	58.5	52.7	5.85	
66	145	59.4	53.5	5.94	
67	147	60.3	54.3	6.03	
68	150	61.2	55.1	6.12	
69	152	62.1	55.9	6.21	
70	154	63	56.7	6.3	
71	156	63.9	57.5	6.39	
72	158	64.8	58.3	6.48	
73	161	65.7	59.1	6.57	
74	163	66.6	59.9	6.66	

Patient Weight		TOTAL DOSE 0.9 mg/kg	INFUSION 0.81 mg/kg	BOLUS 0.09 mg/kg	
kg	lbs	(Dose in mg= VTBI in mL)	over 1 hr (Dose in mg= VTBI [*] in mL)	over 1 min (Dose in mg= VTBI [*] in mL)	
75	165	67.5	60.8	6.75	
76	167	68.4	61.6	6.84	
77	169	69.3	62.4	6.93	
78	172	70.2	63.2	7.02	
79	174	71.1	64.0	7.11	
80	176	72	64.8	7.2	
81	178	72.9	65.6	7.29	
82	180	73.8	66.4	7.38	
83	183	74.7	67.2	7.47	
84	185	75.6	68.0	7.56	
85	187	76.5	68.9	7.65	
86	189	77.4	69.7	7.74	
87	191	78.3	70.5	7.83	
88	194	79.2	71.3	7.92	
89	196	80.1	72.1	8.01	
90	198	81	72.9	8.1	
91	200	81.9	73.7	8.19	
92	202	82.8	74.5	8.28	
93	205	83.7	75.3	8.37	
94	207	84.6	76.1	8.46	
95	209	85.5	77.0	8.55	
96	211	86.4	77.8	8.64	
97	213	87.3	78.6	8.73	
98	216	88.2	79.4	8.82	
99	218	89.1	80.2	8.91	
100	220	90	81.0	9	
and					
above					

^{*} VTBI = Volume to be infused on IV pump.

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