

Conway Medical Center
Conway, South Carolina

Center Patient Admission
Label Here

Physician's Orders
IV reteplase (Retavase)
(ICU/ER/Cath Lab only)

Another brand of drug identical in form and content may be dispensed unless checked. ☐

Allergies:

Drug
Information

Reteplase is a recombinant plasminogen activator which catalyzes the cleavage of endogenous plasminogen to generate plasmin. Plasmin in turn degrades the fibrin matrix of the thrombus, thereby exerting its thrombolytic action.

Pharmacokinetics: Half-Life: 13-16 min

Onset: Coronary thrombolysis occurs in 30 min, reaches peak response at 30-90 min

Indications

- Ischemic symptoms less than 12 hours
- Ongoing ischemia 12-24 hours and a large area of myocardium at risk or hemodynamic instability
- Not for ST depression except if true posterior (inferobasal) MI is suspected or when associated with ST elevation in lead aVR

Risk
Assessment
(To be
completed by
physician)

A.- Absolute Contraindications:

- | | | |
|------------------------------|-----------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | CVA – Hemorrhagic (at any time) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | CVA – Ischemic stroke within 3 months EXCEPT acute ischemic stroke within 4.5 hours |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Known intracranial neoplasm, AV malformation, or aneurysm |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Active bleeding or bleeding diathesis (excluding menses) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Aortic dissection (known or suspected) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Significant closed head or facial trauma within 3 months |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Severe uncontrolled hypertension (unresponsive to emergency therapy) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Intracranial or intraspinal surgery within 2 months |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Streptokinase, prior treatment within previous 6 months |

B. - Relative Contraindications:

- | | | |
|------------------------------|-----------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Oral anticoagulant therapy |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Known bleeding diathesis (primary or secondary) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Non-compressible vascular punctures |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Recent (within 2 to 4 weeks) internal bleeding |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Pregnancy |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Active peptic ulcer |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Traumatic or prolonged (>10 minutes) CPR |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Dementia |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Major surgery (<3 weeks) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | History of prior ischemic stroke >3 months |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Significant hypertension on presentation (SBP >180mm Hg or DBP >110mm Hg) |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | History of chronic, severe, poorly controlled hypertension |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Known intracranial pathology not covered in absolute contraindications |

Pre-Treatment

If not already completed: STAT

- | | | | | | |
|--|------------------------------|------------------------------|-----------------------------------|---------------------------------|-----------------------------|
| <input type="checkbox"/> EKG | <input type="checkbox"/> CBC | <input type="checkbox"/> BMP | <input type="checkbox"/> Troponin | <input type="checkbox"/> PT/PTT | <input type="checkbox"/> UA |
| <input type="checkbox"/> Type and crossmatch 2 units RBCs for possible transfusion | | | | | |
| <input type="checkbox"/> Obtain consent to administer reteplase | | | | | |
| <input type="checkbox"/> Prior to administration insert 3 large bore IV's if possible | | | | | |
| one dedicated to blood sampling
one dedicated to reteplase, NO dextrose or Dextrose containing solutions through this line if possible | | | | | |

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Medications

- ☐ ASA 324mg chewed STAT then 81mg ASA Oral Daily unless allergic
- ☐ ≤ 75 years Clopidogrel 300mg STAT PO then 75mg PO daily
- ☐ > 75 years Clopidogrel 75mg STAT PO then 75mg PO daily

Enoxaparin

- ☐ ≤ 75 years
Enoxaparin 30mg IV Bolus STAT before reteplase, Irrigate with 10cc NS
Enoxaparin 1mg/kg SQ 15 minutes after IV enoxaparin bolus and reteplase then every 12hours until discharge, revascularization or max 8 days
Note: maximum 100mg SQ for the first 2 doses post reteplase then max 140mg until end of treatment
- ☐ > 75 years
Enoxaparin **NO** Bolus
0.75 mg/kg SQ STAT and every 12 hours until discharge, revascularization or max 8 days
Note: maximum 75mg for the first 2 doses
- ☐ Regardless of age if CrCL < 30 ml/minute
Enoxaparin 1 mg/kg SQ STAT then every 24 hours until discharge, revascularization or max 8 days

Heparin

- ☐ Heparin bolus and Initial IV infusion per cardiac protocol to reach goal PTT of _____ for 48 hours or until revascularization

- ☐ Metoprolol 5 mg IV over 5 minutes up to 3 doses (total 15 mg)
- ☐ Metoprolol 25 mg Oral q 12 hours if not contraindicated

Use with caution if Bp $< 100/60$ or pulse < 70 or patients with COPD or asthma

- ☐ Nitroglycerine 0.4 mg SL, may repeat q 5-10 minutes x 3 doses for chest pain
- ☐ Nitroglycerine drip per protocol for chest pain

NTG contraindicated if recent (24-48 hours) use of phosphodiesterase inhibitor

Use with caution in right ventricular MI

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Retavase	Mix as directed with diluent provided in package immediately prior to administration Administer within 30 minutes of arrival if when anticipated FMC to device >120 minutes <input type="checkbox"/> Administer reteplase 10 units IV bolus over 2 minutes THEN in 30 minutes <input type="checkbox"/> Administer second dose reteplase 10 units IV bolus over 2 minutes <div style="text-align: right;">(Total cumulative dose of 20 units)</div>
Monitoring	<input checked="" type="checkbox"/> Continuous ECG monitoring <input checked="" type="checkbox"/> Post reteplase Vitals every 15 minutes x 2; q 30 minutes x 2; q 1hour x3; then minimum every 4 hours x 24 hours (do NOT use automatic Bp cuff) <input checked="" type="checkbox"/> Neuro checks every 15 minutes x 2; q 30 minutes x 2; q 1hour x3; then minimum every 4hours x 24 hours <input checked="" type="checkbox"/> 12 lead EKG 90 minutes after dose time <input checked="" type="checkbox"/> 12 lead EKG 4 hours after dose <input checked="" type="checkbox"/> 12 lead EKG STAT for any recurrence of chest pain
Nursing	<ul style="list-style-type: none"> • Avoid all unnecessary vascular or arterial punctures and IM injections • Report to the physician any changes in heart rhythm, vital signs, neuro checks, bleeding, recurring or worsening chest pain, new ST segment changes, pain in back or legs, headache, or any other concerns regarding the patient • Use pressure dressings for all puncture sites • Provide Care Notes to patient/family and review with them • Oozing at IV sites can be expected • Do not give any IM injections
Guidelines	Consider the following: <ul style="list-style-type: none"> • Stable patients should be transferred within 3-24 hours for angiography and revascularization • Urgent transfer for PCI for patients with evidence of failed reperfusion or re-occlusion • Immediate transfer for cardiogenic shock or acute severe heart failure

_____ Physician's Signature	_____/_____/_____ Date	_____ Time	
Nurse 1 _____	Nurse 2 _____		
_____/_____/_____ Date	_____ Time	_____/_____/_____ Date	_____ Time