**EMR CHEST PAIN PROTOCOL**

**Indications:**

* Patient whose presentation is suggestive of Cardiac Chest Pain.

**Contraindications for ASA:**

* Inability to swallow
* Allergy to ASA
* Active Peptic Ulcer or Gastrointestinal Bleeding
* Pediatric Patient
* Exceeding daily dosage

**Contraindications for Nitroglycerin:**

* Viagra or Levitra in last 24 hrs or Cialis in last 48 hrs
* Blood Pressure less than or equal to 100mmHG
* Known allergy or sensitivity to nitrates
* Pulse less than 60 bpm

**Complete Primary Survey**

* Apply oxygen

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If the patient DOES not have a prescription for Nitroglycerin

**Initiate Load and Transport** 1

**Complete History and Initial Vital Signs**

* Ensure pain is cardiac in nature (SAMPLE)
* Complete a pain assessment (OPPQRRST)
* Apply Pulse Oximeter

If the patient **HAS** a prescription for Nitroglycerin

* Rule out Contraindications for Nitroglycerin
* Administer Nitroglycerin 2,3 sublingually
* Rule out Contraindications for ASA
* Administer chewable ASA

* Consider Pain management Protocol
* Administer Entonox 6
* Rule out Contraindications for ASA
* Administer chewable ASA

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Continue with assessment and treatment

If pain persists 4,7 after first Nitroglycerin dose

* Rule out Contraindications for Nitroglycerin
* Administer second Nitroglycerin 2 dose

**Footnotes:**

1. The EMR should initiate Load and Transport right after the Primary Survey, however, 1 dose of nitroglycerin may be administered on scene if time permits and transport to hospital is not delayed.
2. Ensure BP > 100mmHg, pulse > 60 bpm and check whether pain still persists before administering repeat nitroglycerin. Repeat doses of nitroglycerin cannot be given < 5 minutes from the last dose.
3. EMR’s may administer up to 3 doses of nitroglycerin as a part of the nitroglycerin component of the protocol regardless of how many doses the patient may have taken prior to the arrival of the EMR.
4. If pain is completely relieved at any point, cease protocol and continue with normal assessment and treatment.
5. If pain is completely relieved for more than 5 minutes, the nitroglycerin component of the Chest Pain Protocol can be re-initiated if the patients pain returns (given they have a prescription for nitroglycerin). If the patient is currently on Entonox, they must be taken off it for a minimum of 5 minutes prior to receiving nitroglycerin.
6. Prior to administering Entonox, all contraindications must be ruled out and cautions should be considered. Refer to Pain Management Protocol for specific guidelines on the administering of Entonox.
7. In some instances, when working as a First Aid Attendant, if the patient is symptom-free after administering or assisting with one dose of nitroglycerin, the patient may return to work, if allowed by local regulations.

Continue with assessment and treatment and Vital Signs every 5 minutes 5.

If pain persists 4, consider Pain Management Protocol.

* Administer Entonox 6

If pain persists 4 after second Nitroglycerin dose

* Rule out Contraindications for Nitroglycerin
* Administer third Nitroglycerin 2 dose

Continue with assessment and treatment and Vital Signs every 5 minutes