

# Nitroglycerin

## Adult Cardiac Congestive Heart Failure / Pulmonary Edema

I

Adult

0.4 mg SL q 5 minutes to a maximum of 1.2 mg

### \*\*\*KEY POINT\*\*\*

NTG is **CONTRAINDICATED** in the following circumstances:

- Patient has taken prescription or OTC Sexual Performance Enhancing Drug (SPED) within 72 hours
- Suspected acute inferior MI
- Hypotension (SBP <100 mmHg)

### INTERMEDIATES:

- EMT-Intermediates must have an MCEP consult prior to delivering medication in the absence of an on-scene Paramedic

### Class:

- Nitrate, Antianginal, Antihypertensive, Coronary Vasodilator

### Description of Use:

- Produces peripheral vasodilation and dilates coronary arteries to improve collateral blood flow to ischemic areas within the myocardium
- Decreases myocardial oxygen demand, reduces Ventricular preload, and decreases afterload

### Pharmacokinetics: (Route: SL, IV)

- Onset: 1-3 min
- Half-life: 1-4 min

### Special Populations:

- Pregnancy Class: B
- Children: Safety and efficacy not established
- Elderly: More susceptible to hypotensive effects. Age-related renal impairment may require dosage adjustment

### Contraindications:

- Suspected acute right ventricular MI, hypotension with SBP <100 mmHg, SPEDS within last 72 hours

### Adverse reactions:

- Severe orthostatic hypotension may occur, manifested by syncope, pulselessness, cold/clammy skin, diaphoresis
- High doses tend to produce severe headache