



**BIRZEIT UNIVERSITY**

**FACULTY OF PHARMACY, NURSING AND HEALTH PROFESSIONS**

**NURS3250, CRITICAL CARE NURSING 1**

Male patient 55 yrs. old. 70 kg admitted to CCU diagnosed of Myocardial Infarction. Hemodynamic data: BP 100/40, Pulse 125 b/m, CVP 12 mmHg, Respiration 18/m, Temp. 36.5 C, CO 2/L, O2 SAT 88%, Cardiac Enzymes elevated, ECG shows ST elevation in lead 2, lead 3 and AVF, Dr requested to start streptokinase 1.5 million I.U over 1 hr., start Nitroglycerin infusion 50 mcg/min using a Nitroglycerin Admixture of 50 mg in D5W 250 ml, Heparin infusion and give Aspirin 300 mg P.O, Lasix 40 mg I.V STAT and applied nasal cannula 2/L, Chest x-ray shows LV congestion.

- 
- 1- Calculate the MAP? Interpretation?
  - 2- Pulse Pressure? Interpretation?
  - 3- SVR? Interpretation?
  - 4- What you expect the reading for PAP and PAWP and why?
  - 5- What is your interpretation of high reading CVP?
  - 6- What type of shock you suspect the patient may have follow MI?
  - 7- What is the classification and action of streptokinase, Aspirin, Heparin and Nitroglycerin drugs?
  - 8- Calculate the IV infusion rate in millimeters per hour for nitroglycerin?
  - 9- Echo cardiograph done for patient and show 35 % Ejection fraction, what is E.F mean and what is its normal range?
  - 10- Patient next day start Dopamine infusion, 5 mic / kg / m, what are the indication, classification, for dopamine infusion and the effect of dopamine?

**Instructor: Imad Asmar**