HEPARIN (HEP-ah-rin)

PHARMACOLOGIC CLASSIFICATION:

-anticoagulant

THERAPEUTIC CLASSIFICATION:

-anticoagulant

MECHANISM OF ACTION:

-potentiates the inhibitory action of antithrombin III on various coagulation factors

-increases the rate of formation of antithrombin III-thrombin complex causing inactivation of thrombin and preventing the conversion of fibringen to fibrin

-therapeutic doses of heparin prolong thrombin time, whole blood clotting time, activated clotting time, and PTT (partial thromboplastin time)

ONSET OF ACTION:

-IV: immediate

INDICATIONS:

- -pulmonary embolism
- -deep vein thrombosis
- -disseminated intravascular coagulation
- -to maintain IV patency (Heparin lock)
- -AMI

CONTRAINDICATIONS:

- -active bleeding
- -blood dyscrasias
- -bleeding tendencies (hemophilia, thrombocytopenia—decrease in number of blood platelets)
- -intracranial hemorrhages

PRECAUTIONS:

- -use with caution in postpartum patients, women during menses, alcoholism, asthma, ulcers
- -check patient frequently for bleeding gums, bruises on arms or legs, petechiae, nosebleeds, tarry stools, hematuria or hematemesis

INTERACTIONS:

- -use with platelet inhibitors or oral anticoagulants increases anticoagulant effect
- -digitalis, tetracyclines, nicotine, or antihistamines may counteract the anticoagulant action of heparin

SIDE EFFECTS:

- -hemorrhage (with excessive dosage)
- -irritation
- -mild pain
- -hematoma
- -ulceration

DOSAGE:

-general heparin dosage: 10000-20000 Units IV push -maintenance dose: 8000-10000 units q 8 hours