

INSULIN **(IN-sue-lin)**

TYPES OF INSULIN:

- Regular
 - Humulin R
 - Novolin R
 - Pork Regular Iletin II
 - Purified Pork
- Lispro
 - Humalog
- Isophane Insulin Suspension (NPH)
 - Humulin N
 - Novolin N
 - Pork NPH Iletin II
- Isophane Insulin Suspension and Insulin Injection (70% isophane insulin and 30% insulin injection)
 - Humulin 70/30
 - Novolin 70/30

PHARMACOLOGICAL CLASSIFICATION:

- pancreatic hormone

THERAPEUTIC CLASSIFICATION:

- anti-diabetic agent

MECHANISM OF ACTION:

- used as a replacement for the physiologic production of endogenous insulin in patients with insulin-dependent diabetes
 - and diabetes inadequately controlled by diet and oral hypoglycemic agents
- it increases glucose transport across muscle and fat-cell membranes to reduce blood glucose levels
- it promotes conversion of glucose to its storage form, glycogen

INDICATIONS:

- diabetic ketoacidosis

CONTRAINDICATIONS:

- allergy to pork

SIDE EFFECTS:

- hypoglycemia
- rebound hyperglycemia

INTERACTIONS:

- alcohol
- anabolic steroids
- beta blockers
- salicylates
- (these cause a prolonged hypoglycemic effect)

DOSAGE:

- Regular: 0.15 units/kg IV followed by a continuous infusion of 0.1 units/kg/hour

SPECIAL CONSIDERATIONS:

- insulin is available in various forms that differ in onset, peak, and duration of action