CLINICAL APPLICATION OF ENZYMES OR THERAPEUTIC USES OF ENZYMES

Several enzymes are known today which have got beneficial important role in several disorders/ disease so as to make the sick person better one These are being used in medicine without any hesitation. They use in medicine is on increased day by day. More and more researches are going on in this directions inactivated in gastro intestinal tract, hence these are administered parenterally. Some of the important examples of such enzymes are as follows:

TRYPSIN: This has proved to be of value in the treatment of several clinical conditions. The purified enzymes has been administered parenterally, orally and inter muscuarly. **In the treatment of acute thromvophlebistic (a blood clot and inflammation in a vein), small recurrent injection have been beneficial in many patients.**

Some types of ulcers have responded well to trypsin therapy, as have some specific traumatic injuries, such as boxers black eye and a number of other injuries to athletes and others. This is also used in patients with indigestion.

STREPTOKINASE : It is a bacterial enzyme obtained principally from β-hemolytic streptococci. **It causes fibrinolysis and dissolution of clot. It is used in the treatment of haemothoxaxand haemotoma.**

Hyalyromdase is prepared from mammalian testes. It acts by deploy merizing hyaluronic acid and increasing tissue permeability. **It is used in the treatment of traumatic or post operative edema.**

PEPSIN : It is obtained from hog stomach. It is used in the treatment of gastricachydia (congenitally undeveloped gastric glands). and also in the indigestion.

LIPASE : This is also used in patients with indigestion.

THROMBOPLASTIC : This is prepared by lysis of blood platelets and is used for blood coagulation.

UROKINASE : It is prepared from human urine and is used in the treatment of the pulmonary embolism and in myocardial infarction to dissolve the clot.

FIBRINOLYSIS : It is prepared by activating fibrinolysiongen by streptokinase and is used in the treatment of venous thrambosis pulmonary and arterial embolism.

RENNIN : It is obtained from the glandular layer of calf stomach and is used in the therapy of gastric achylia.W