

# INTRODUCTION

In the last two decades, great advance had been reached in the use of hormones, hormone analogues and hormone antagonists not only in the treatment but also in diagnosis of non endocrine diseases(**Bang et al.,2008**).

Cancer prostate can be treated with LHRH agonists, LHRH antagonist, anti androgens, Somatostatin analogues , Bombesin and GRP antagonists(**Van Aken et al.,2008**).

Approximately 30% of unselected premenopausal patients with breast cancer, have oestrogen dependent tumors and can be treated with hormonal approaches, such as anti estrogen, Tamoxifen and LHRH agonists. FDA approved the uses of Tamoxifen for chemoprevention of breast cancer in women at high risk, and uses of selective estrogen receptor modulator (Raloxifen) for chemoprevention of breast and endometrial cancer(**Rivera et al.,2005**).

Radiolabeled Somatostatin analogues, make feasible the treatment of Somatostatin receptor positive tumors by delivering therapeutic doses by delivering therapeutic doses of radioactive isotope to the cancer(**Lambert B, et al.2004**).

Randomized control trials have established the efficacy of octerotides for malignant bowel obstruction, for chemotherapy induced diarrhea and in variety of pancreatic disorders, including: acute pancreatitis, in prevention of post operative and post ERCP pancreatitis(**Povoski et al.,2009**).

Recently vasopressin analogue has been added to the advanced cardiac life support for resuscitation of VT and VF(**Prvulovich EM ,2008**).

Potential therapeutic uses of AVP receptor antagonists include: the blockade of V1 vascular AVP receptors in arterial hypertension, congestive heart failure and peripheral vascular disease. The blockade of V2 renal AVP receptors in the SIADH,

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chronic heart failure, nephritic syndrome and liver cirrhosis. The blockade of V3 pituitary AVPreceptors in ACTH secreting tumors (**Critichey M., 2008**).

Attempts are being made to use Somatostatin analogues (labeled with radionuclide ) such as  $^{111}\text{In}$  Indium for cancer localization (**Bang et al., 2008**).

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## **AIM OF THE WORK**

The aim of this essay is to:

Study the uses of hormones ,hormone analogues and hormone antagonists in the treatment and diagnosis of non endocrine diseases.