## **Contents**

SUBJECT	PAGE
Introduction Aim of the work Review of Literature:	1 2
<ul> <li>Nitric oxide</li> <li>The discovery of nitric oxide</li> <li>Biosynthesis of nitric oxide</li> <li>Types of NOS enzymes</li> <li>Mechanism of action of NOS enzymes</li> <li>Inhibition of nitric oxide synthesis</li> <li>Nitric oxide donors</li> <li>Mechanism of action of NO</li> <li>Functions of NO</li> </ul>	3 3 5 8 10 11 12 14
<ul> <li>Glucocorticoids         <ul> <li>Synthesis of adrenocortical hormones</li> <li>Mechanisms of glucocorticoid action</li> <li>Regulation of Adrenocortical function</li> <li>Major Physiologic Actions of Glucocorticoids</li> </ul> </li> </ul>	24 24 27 33
<ul> <li>Stress</li> <li>Definition and types of stress</li> <li>Adaptive response to stress</li> <li>The Hypothalamic-Pituitary-Adrenal Axis (HPA)</li> <li>Non-glucocorticoid inhibitors of HPA axis</li> <li>Sress system-interactions with major endocrine axes</li> <li>Materials and Methods</li> <li>Results</li> <li>Discussion</li> <li>Summary and conclusion</li> <li>References</li> <li>Arabic Summary</li> </ul>	37 38 40 40 45 51 59 117 131