CONTENTS

List of Figures (i)
List of Tables (iv)
List of Abbreviations (viii)

ABSTRACT 1-5

1. INTRODUCTION 6-34
2. MATERIALS 35-36
3. METHODS 37-48
4. RESULTS & DISCUSSION 49-165

Treatment of rats with different antibiotics, fish oil and olive oil

A. TOBRAMYCIN 49-66
   1. Time dependent effect of tobramycin toxicity 49
   2. Treatment of rats with fish oil and olive oil 49
   3. Results 51
      (i) General parameters: Body & organ weight
      (ii) Effects on serum parameters
      (iii) Effects on tissue parameters
   4. Discussion 64

B. GENTAMICIN 67-84
   1. Time dependent effect of gentamicin toxicity 67
   2. Treatment of rats with fish oil and olive oil 67
   3. Results 69
      (i) General parameters: Body & organ weight
      (ii) Effects on serum parameters
      (iii) Effects on tissue parameters
   4. Discussion 82

C. STREPTOMYCIN 85-102
   1. Time dependent effect of streptomycin toxicity 85
   2. Treatment of rats with fish oil and olive oil 85
   3. Results 87
      (i) General parameters: Body & organ weight
      (ii) Effects on serum parameters
      (iii) Effects on tissue parameters
   4. Discussion 100

D. AMIKACIN 103-119
   1. Time dependent effect of amikacin toxicity 103
   2. Treatment of rats with fish oil and olive oil 103
   3. Results 105
      (i) General parameters: Body & organ weight
      (ii) Effects on serum parameters
(iii) Effects on tissue parameters

4. Discussion

E. KANAMYCIN 120-135

1. Time dependent effect of kanamycin toxicity 120
2. Treatment of rats with fish oil and olive oil 120
3. Results 122
   (i) General parameters: Body & organ weight
   (ii) Effects on serum parameters
   (iii) Effects on tissue parameters
4. Discussion 134

F. EFFECT OF LINOLENIC ACID AND VITAMIN E ON TOBRAMYCIN INDUCED NEPHROTOXICITY 136-151

1. Treatment of rats with linolenic acid and vitamin E 136
2. Results 137
   (i) General parameters: Body & organ weight
   (ii) Effects on serum & tissue parameters
   (iii) Effects on antioxidant potential
3. Discussion 148

F. COMPARATIVE STUDY OF THE RESULTS OBTAINED FOR VARIOUS ANTIBIOTICS 152-165

(i) Effects on serum parameters 152
(ii) Effects on marker enzyme of the kidney 153
(iii) Effects on hepatic antioxidant potential 153
Discussion 162

5. CONCLUSION 166-168

6. BIBLIOGRAPHY 169-180