

List of Figures

Figure no.	Title	Page no.
Fig 1	Effect of pharmacological interventions on serum glucose level in diabetic (Db) rats	62
Fig 2		62
Fig 3	Effect of pharmacological interventions on serum cholesterol level in hypercholesterolemic (Hch) rats	63
Fig 6		65
Fig 4	Effect of pharmacological interventions on serum HDL level in hypercholesterolemic (Hch) rats	64
Fig 7		65
Fig 5	Effect of pharmacological interventions on serum TG level in hypercholesterolemic (Hch) rats	64
Fig 8		66
Fig 9	Effect of pharmacological interventions on serum homocysteine level in hyperhomocysteinemic (Hhcy) rats	67
Fig 10		67
Fig11	Effect of pharmacological interventions on mean arterial blood Pressure in hypertensive (HT) rats	68
Fig12		69
Fig 13	Effect of pharmacological interventions on serum nitrate/nitrite conc. in Diabetic (Db) rats	70
Fig 17		72
Fig14	Effect of pharmacological interventions on serum nitrate/nitrite conc. in hypercholesterolemic(Hch)rats	70
Fig 18		72

Fig 15	Effect of pharmacological interventions on serum nitrate/nitrite conc. in hyperhomocysteinemic(Hhcy)rats	71
Fig 19		73
Fig 16	Effect of pharmacological interventions on serum nitrate/nitrite conc in hypertensive(HT) rats	71
Fig 20		73
Fig 21	Effect of pharmacological interventions in(Ach induced EDR in PE Precontracted aorta) diabetic (Db) rats	75
Fig 25		77
Fig 22	Effect of pharmacological interventions in(Ach induced EDR in PE precontract IA) hypercholesterolemic(Hch)rats	75
Fig 26		77
Fig 23	Effect of pharmacological interventions in(Ach induced EDR in PE precontracted IARP) hyperhomocysteinemic(Hhcy)rats	76
Fig 27		78
Fig 24	Effect of Pharmacological interventions in(Ach induced EDR in PE precontracted IARP)hypertensive(HT)rats	76
Fig 28		78
Fig 29	Effect of pharmacological interventions in (SNP induced EDR in PE precontracted IARP) diabetic(Db) rats	79
Fig 33		81
Fig 30	Effect of Pharmacological interventions in (SNP induced EDR in PE Precontracted IARP) hypercholesterolemic(Hch) rats	79
Fig 34		81
Fig 31	Effect of pharmacological interventions in (SNP induced EDR in	80

Fig 35	PE precontracted IARP) hyperhomocysteinemic (Hhcy) rats	82
Fig 32	Effect of pharmacological interventions in (SNP induced EDR in PE precontracted IARP) hypertensive (HT) rats .	80
Fig 36		82
Fig 37	Effect of pharmacological interventions on eNOS/Gadph ratio in diabetic (Db) rats	84
Fig 41		86
Fig 38	Effect of pharmacological interventions on eNOS/Gadph ratio in hypercholesterolemic (Hch) rats	84
Fig 42		86
Fig 39	Effect of Pharmacological interventions on eNOS/Gadph ratio in hyperhomocysteinemic(Hhcy)rats	85
Fig 43		87
Fig 40	Effect of Pharmacological interventions on eNOS/Gadph ratio in hypertensive (HT) rats	85
Fig 44		87
Fig 45	Electron Micrographs of endothelium layer of thoracic aorta	91-93
Fig 46		94-95
Fig A	Endothelial nitric oxide synthase-caveolin interaction	17
Fig B	Formation of mature endothelial progenitor cell	21
Fig C	Regulatory proteins of Endothelial Nitric oxide synthase	42
Fig D	Regulatory and Catalytic subunits of Phosphatidylinositol-3-kinase isoforms	47
Fig E	Functions of Phosphatidylinositol-3-kinase	49
Table 1	Experimental Protocol	56

