

List of Tables

Sr. No.	Title	Page No.
CHAPTER 1. INTRODUCTION AND REVIEW OF LITERATURE		
1	Biochemical Markers in Hypothyroidism	12
CHAPTER 2. AIM AND HYPOTHESIS		
CHAPTER 3. SCREENING OF INFERTILE FEMALE POPULATION FOR THE PREVALENCE OF SUBCLINICAL HYPOTHYROIDISM (SCH). AND TO STUDY THE PREVALENCE, INVOLVEMENT AND THE CORRELATION OF AUTOIMMUNE THYROID DISEASE (AITD) WITH SCH IN PRIMARILY INFERTILE FEMALE POPULATION FROM GUJARAT		
3.1	Reference (normal) range of TSH, fT3 and fT4 levels followed for the selecting the subjects	62
3.2	The parameter of Body mass index	65
3.3	Screening of SCH in study population	67
3.4	Demographic details	68
3.5	IF-SCH subjects groups	69
3.6	Prevalence of infertility in different age groups of IF-SCH subjects	69
3.7	Duration of infertility in years of IF-SCH subjects	70
3.8	Correlation between TSH and Age	71
3.9	Correlation between TSH with BMI	71
3.10	Correlation between TSH and Hb	72
3.11	TSH, fT3 and fT4 levels and Anti-TPO prevalence in the study population	74
3.12	TSH levels and Anti- TPO Abs prevalence	76
3.13	Correlation of TSH with fT3 and fT4 in the study population	78
3.14	Correlation between TSH and anti-TPO Abs	79
CHAPTER 4. EVALUATING THE EFFECTS OF SCH ON THE FEMALE REPRODUCTIVE HORMONES AND TO FIND OUT THE PREVALENCE OF		

HYPERPROLACTINEMIA IN GUJARAT INFERTILE FEMALE POPULATION, AND TO STUDY THE CORRELATION OF SCH WITH ALTERED REPRODUCTIVE HORMONAL PROFILE		
4.1	PRL and Gonadotropins levels in Control and IF-SCH subjects	106
4.2	Comparative PRL levels and prevalence of Hyperprolactinemia in Control, IF-ET and IF-SCH subjects	107
4.3	Distribution of menstrual irregularities in the controls and IF-SCH subjects	108
4.4	Menstrual status of the IF-SCH subjects	109
4.5	Correlation between the PRL and TSH, PRL and fT3, PRL and fT4	112
4.6	Correlation between PRL levels and increased Age, PRL levels and high BMI	114
4.7	Correlation between the LH and TSH, LH and Age, LH and BMI	116
4.8	Correlation between FSH and TSH, FSH and Age, FSH and BMI, FSH and LH	118
4.9	Correlation between PRL and LH, FSH	120
CHAPTER 5. TO ESTIMATE AND EXPLORE THE EFFECT OF SCH ON OXIDATIVE STRESS LEVELS AND LIPID PROFILE, AND TO FIND OUT THE CORRELATION OF SCH WITH THE OXIDATIVE STRESS LEVELS ALONG WITH ALTERATIONS IN THE LIPID PROFILE IN PRIMARILY INFERTILE FEMALE POPULATION OF GUJARAT		
5.1	Levels of oxidative stress biomarkers in Control and IF-SCH subjects	140
5.2	Correlation status between TSH levels and OS biomarkers	142
5.3	Correlation status between OS biomarkers	144
5.4	Lipid profile in Control and IF-SCH subjects	146
5.5	Correlation statuses between TSH, TC and TG levels in Control and IF-SCH subjects	149
5.6	Correlation status between TSH and Lipid profile in Control and IF-SCH subjects	149
5.7	Correlation statuses between MDA, TC and TG levels in Control and IF-SCH subjects	151

5.8	Correlation status between MDA, LDL-C and HDL-C in Control and IF-SCH subjects	152
CHAPTER 6. ESTIMATING THE LEVELS OF POLYCHLORINATED BIPHENYLS (PCBS) AND EVALUATING THE CORRELATION BETWEEN PCBS AND THE CAUSE OF SCH IN GUJARAT INFERTILE FEMALE POPULATION		
6.1	PCB congeners reported in the sample of IF-SCH female	168
6.2	Effects of PCBs on Thyroid Hormones	171
CHAPTER 7. TO EVALUATE THE PREVALENCE AND ASSOCIATION OF PDE8B POLYMORPHISMS WITH SUBCLINICAL HYPOTHYROIDISM AND FEMALE INFERTILITY AND TO STUDY THE POSSIBLE GENOTYPE-PHENOTYPE CORRELATION WITH THE CAUSE OF SCH AND INFERTILITY IN GUJARAT INFERTILE FEMALE POPULATION		
7.1	Primers and Restriction Enzymes (REs) used for genotyping of PDE8B rs4704397 and rs6885099 polymorphisms	187
7.2	Demographic and Clinical characteristics of the studied population according to the PDE8B rs4704397 genotypes	188
7.3	Distribution of genotype and allele frequencies for PDE8B rs4704397 A/G polymorphism	189
7.4	Distribution of genotypes and alleles for PDE8B rs6885099 G/A polymorphism	190
7.5	Distribution of haplotype frequencies for PDE8B rs4704397 and rs6885099 polymorphisms	191
CHAPTER8. SUMMARY AND CONCLUSIONS		