

<b>LIST OF TABLES</b>		
<b>SR. NO</b>	<b>TITLE OF TABLE</b>	<b>PAGE NO.</b>
1.	Table No. 1. Top 10 Countries for Estimated Numbers of Adults with Diabetes, 2010 and 2030	09
2.	Table No. 2. Classification of Diabetes Mellitus	18
3.	Table No.3. Other Specific Types of Diabetes Mellitus	22
4.	Table No. 4. Number of People With Diabetes Top 10 Countries	29
5.	Table No. 5. Diagnostic Criteria for Diabetes Mellitus, Impaired Fasting Glucose, and Normal Fasting Glucose	30
6.	Table No. 6. ICMR-WHO recommended guidelines for management of Diabetes in 2005 and diagnostic criteria	31
7.	Table No. 7. The Current Diagnostic Criteria for Diabetes	36
8.	Table No.8. Pharmacokinetics of DPh4 Inhibitors	78
9.	Table No. 9. Efficacy of DPP-4 Inhibitors	83
10.	Table No.10. Pharmacokinetics of $\alpha$ -Glucosidase Inhibitor	90
11.	Table No. 11. Mean Placebo- Subtracted Change in HbA1c in the Fixed Dose Monotherapy Studies (Acarbose)	90
12.	Table No.12. Mean Placebo Subtracted Change in HbA1c in the Fixed Dose Monotherapy Studies.	91
13.	Table No. 13. Alpha Glucosidase Inhibitors Pharmacokinetic Data	93
14.	Table No. 14. Patients Group	108
15.	Table No. 15. Reagent 1	109
16.	Table No. 16. Reagent 2: Glucose Standard	109
17.	Table No.17. Assay Parameters	110
18.	Table No. 18. Assay Procedure	110
19.	Table No. 19. Distribution of Mean and SD Values of all Parameters in Group I (Acarbose) from Baseline to 6 Months Follow up	116
20.	Table No. 20. ANOVA test for Group I (Acarbose)	117
21.	Table No. 21. Distribution of Mean and SD Values of all Parameters in Group II (Miglitol) from Baseline to 6 Months Follow up	117
22.	Table No. 22. ANOVA Test for Group II (Miglitol):	118

23.	Table No. 23. Distribution of Mean and SD Values of all Parameters in Group III (Acarbose + <i>Salacia oblonga</i> ) from Baseline to 6 Months Follow up:	119
24.	Table No. 24. ANOVA Test for Group III (Acarbose + <i>Salacia oblonga</i> )	120
25.	Table No. 25. Distribution of Mean and SD Values of all Parameters in Group IV (Acarbose + <i>Salacia reticulata</i> ) from Baseline to 6 Months Follow up:	120
26.	Table No. 26. ANOVA Test for Group IV (Acarbose + <i>Salacia reticulata</i> )	121
27.	Table No. 27. Distribution of Mean and SD Values of all Parameters in Group V (Miglitol + <i>Salacia oblonga</i> ) from Baseline to 6 Months Follow up:	122
28.	Table No. 28. ANOVA Test Group V (Miglitol + <i>Salacia oblonga</i> )	123
29.	Table No. 29. Distribution of Mean and SD Values of all Parameters in Group VI (Miglitol + <i>Salacia reticulata</i> ) from Baseline to 6 Months Follow up:	123
30.	Table No. 30. ANOVA Test for Group VI (Miglitol + <i>Salacia reticulata</i> )	124
31.	Table No. 31. Distribution of Mean and SD Values of all Parameters in Group VII ( <i>Salacia oblonga</i> ) from Baseline to 6 Months Follow up:	125
32.	Table No. 32. ANOVA Test for Group VII ( <i>Salacia oblonga</i> )	126
33.	Table No. 33. Distribution of Mean and SD Values of all Parameters in Group VIII ( <i>Salacia reticulata</i> ) from Baseline to 6 Months Follow up	126
34.	Table No. 34. ANOVA Test for Group VIII ( <i>Salacia reticulata</i> )	127
35.	Table No. 35. Distribution of Mean and SD Values of Weight (kg) from Baseline to 6 Months Follow up in all Groups Under Study:	128
36.	Table No. 36. Distribution of Mean and SD Values of Fasting BSL (mg %) from Baseline to 6 Months Follow up in all Groups Under Study:	129
37.	Table No. 37. Distribution of Mean and SD Values of Post Meal BSL (mg %) from Baseline to 6 Months Follow up in all Groups Under Study	131
38.	Table No. 38. Distribution of Mean and SD Values of HbA1C (in %) from Baseline to 6 Months Follow up in all Groups Under Study:	132
39.	Table No. 39. Unpaired'T' Test: for Weight At 6 Months Follow up	133
40.	Table No. 40. Unpaired'T' Test: for Fasting BSL At 6 Months Follow up	134

41.	Table No. 41. Unpaired 't' Test: Post Meal BSL at 6 Months Follow up	135
42.	Table No. 42. Unpaired 't' Test: HbA1C at 6 Months Follow up	135
43.	Table No. 43. Percentage (%) Decrease from Baseline to 6 Months for all Parameters in all Groups Under Study:	136

### LIST OF FIGURES

SR. NO	TITLE OF FIGURE	PAGE NO.
1.	Mechanism of Action of Sulphonylureas	51
2.	The Insulin-Releasing Effect of Sulphonylureas and other Agents on the Pancreatic Islet $\beta$ cell	52
3.	Mechanism of Action of Metformin	62
4.	Mechanism of Action of Thiazolidinedione on an Adipocyte	70
5.	Dipeptidyl Peptidase-4 (DPP-4) Inhibitors	77
6.	Mechanism of Action of Alpha Glucosidase Inhibitor	86