APPENDIX A

The results obtained for the test of zero order kinetics carried out for all the categories of data are plotted in Figures 4.1-4.32. The values are tabulated in Tables A1- A8.

Table A1: Parameters for First, Second and Zero Order SITT Male Control Subjects

t (min)	C_A	$\ln\frac{CA}{CA0}$	$\frac{1}{CA}$
0	70.125	0	0.014
2	65.958	0.050	0.015
4	64.708	0.081	0.015
6	63.708	0.118	0.016
8	58.630	0.179	0.017
10	56.870	0.240	0.018
12	50.708	0.324	0.020
14	48.042	0.400	0.021
16	43.375	0.480	0.023

Table A2: Parameters for First, Second and Zero Order SITT

Female Control Subjects

t(min)	C_A	$\ln\frac{CA}{CAO}$	$\frac{1}{CA}$
0	73.25	0	0.014
2	73.80	0.010	0.014
4	68.65	0.062	0.015
6	62.90	0.150	0.016
8	58.35	0.225	0.017
10	53.05	0.320	0.018
12	48.05	0.410	0.021
14	46.15	0.496	0.022
16	40.35	0.594	0.025

Table A3: Parameters for First, Second and Zero Order SITT

Male Diabetics

t (min)	C_A	$\ln\frac{CA}{CAO}$	$\frac{1}{CA}$
0	145.35	0	0.0069
2	143.96	0.010	0.0069
4	141.38	0.030	0.0071
6	139.31	0.042	0.0072
8	134.90	0.075	0.0074
10	132.81	0.100	0.0075
12	127.27	0.133	0.0079
14	122.81	0.169	0.0081
16	118.68	0.208	0.0085

Table A4: Parameters for First, Second and Zero Order SITT

Female Diabetics

t (min)	C_A	$\ln\frac{CA}{CAO}$	$\frac{1}{CA}$
0	110.53	0	0.0090
2	108.76	0.016	0.0092
4	107.82	0.025	0.0093
6	106.71	0.035	0.0094
8	104.50	0.056	0.0096
10	101.65	0.100	0.0098
12	99.00	0.150	0.0100
14	89.59	0.210	0.0112
16	87.24	0.237	0.0115

Table A5: Parameters for First, Second and Zero Order SITT Control Age ≤ 35

t (min)	C_A	$\ln\frac{CA}{CAO}$	$\frac{1}{CA}$
0	70.97	0.000	0.014
2	68.24	0.039	0.015
4	64.83	0.090	0.015
6	62.14	0.145	0.016
8	56.69	0.225	0.018
10	53.52	0.285	0.019
12	48.59	0.379	0.021
14	45.79	0.450	0.022
16	40.31	0.545	0.025

Table A6: Parameters for First, Second and Zero Order SITT Control Age > 35

t (min)	CA	$\ln\frac{CA}{CAO}$	$\frac{1}{CA}$
0	72.40	0.000	0.014
2	72.00	0.006	0.014
4	69.73	0.038	0.014
6	65.67	0.098	0.015
8	61.80	0.158	0.016
10	58.27	0.217	0.017
12	51.67	0.300	0.019
14	49.87	0.373	0.020
16	45.27	0.470	0.022

Table A7: Parameters for First, Second and Zero Order SITT Diabetics Age ≤ 35

t (min)	C_A	$\ln\frac{CA}{CAO}$	$\frac{1}{CA}$
0	101.00	0.000	0.010
2	99.00	0.023	0.010
4	93.67	0.075	0.011
6	89.17	0.125	0.011
8	85.00	0.165	0.012
10	88.50	0.210	0.011
12	89.67	0.250	0.011
14	74.50	0.304	0.013
16	71.17	0.350	0.013

Table A8: Parameters for First, Second and Zero Order SITT Diabetics Age > 35

t (min)	C_A	$\ln\frac{CA}{CAO}$	$\frac{1}{CA}$
0	136.54	0.000	0.0073
2	136.49	0.000	0.0073
4	134.16	0.018	0.0074
6	132.46	0.035	0.0075
8	129.00	0.057	0.0078
10	125.68	0.090	0.0080
12	120.38	0.126	0.0083
14	115.38	0.168	0.0087
16	111.51	0.203	0.0090

APPENDIX B

The test for Michaelis-Menten kinetics was also carried out by plotting 1/R versus 1/C.

Table B1: Calculated Parameters for SITT Male Control Subjects

t (min)	R	1/R	$\frac{1}{CA}$
0	1.870	0.535	0.014
2	1.759	0.569	0.015
4	1.726	0.579	0.015
6	1.699	0.589	0.016
8	1.564	0.639	0.017
10	1.517	0.637	0.018
12	1.325	0.740	0.020
14	1.281	0.781	0.021
16	1.157	0.864	0.023

Table B2: Calculated Parameters for SITT Female Control Subjects

t (min)	R	1/R	$\frac{1}{CA}$
0	2.838	0.35	0.014
2	2.821	0.35	0.014
4	2.660	0.38	0.015
6	2.437	0.41	0.016
8	2.261	0.44	0.017
10	2.056	0.49	0.018
12	1.862	0.54	0.021
14	1.788	0.56	0.022
16	1.564	0.64	0.025

Table B3: Calculated Parameters for SITT Male Diabetics

t (min)	R	1/R	$\frac{1}{CA}$
0	1.869	0.54	0.0069
2	1.851	0.54	0.0069
4	1.818	0.55	0.0071
6	1.792	0.56	0.0072
8	1.735	0.58	0.0074
10	1.708	0.59	0.0075
12	1.637	0.61	0.0079
14	1.579	0.63	0.0081
16	1.519	0.66	0.0085

Table B4: Calculated Parameters for SITT Female Diabetics

t (min)	R	1/R	$\frac{1}{CA}$
0	1.216	0.82	0.0090
2	1.196	0.89	0.0092
4	1.186	0.84	0.0093
6	1.174	0.85	0.0094
8	1.149	0.87	0.0096
10	1.118	0.89	0.0098
12	1.089	0.92	0.0100
14	0.985	1.02	0.0112
16	0.960	1.04	0.0115

Table B5: Calculated Parameters for SITT Control Age ≤ 35

t (min)	R	1/R	$\frac{1}{CA}$
0	2.188	0.46	0.014
2	2.104	0.48	0.015
4	1.999	0.50	0.015
6	1.916	0.52	0.016
8	1.748	0.57	0.018
10	1.650	0.61	0.019
12	1.948	0.67	0.021
14	1.412	0.71	0.022
16	1.243	0.80	0.025

Table B6: Calculated Parameters for SITT Control Age > 35

t (min)	R	1/R	$\frac{1}{CA}$
0	2.040	0.49	0.014
2	2.029	0.49	0.014
4	1.965	0.51	0.014
6	1.851	0.54	0.015
8	1.742	0.57	0.016
10	1.642	0.61	0.017
12	1.456	0.69	0.019
14	1.405	0.71	0.020
16	1.276	0.78	0.022

Table B7: Calculated Parameters for SITT Diabetics Age ≤ 35

t (min)	R	1/R	$\frac{1}{CA}$
0	2.189	0.46	0.010
2	2.145	0.47	0.010
4	2.029	0.49	0.011
6	1.932	0.52	0.011
8	1.842	0.54	0.012
10	1.918	0.52	0.011
12	1.943	0.51	0.011
14	1.614	0.62	0.013
16	1.542	0.65	0.013

Table B8: Calculated Parameters for SITT Diabetics Age > 35

t (min)	R	1/R	$\frac{1}{CA}$
0	2.458	0.41	0.0073
2	2.457	0.41	0.0073
4	2.451	0.41	0.0074
6	2.384	0.42	0.0075
8	2.322	0.43	0.0078
10	2.262	0.44	0.0080
12	2.167	0.46	0.0083
14	2.077	0.48	0.0087
16	2.007	0.50	0.0090

APPENDIX C

Table C1: CALCULATIONS FOR MEAN AND STANDARD DEVIATIONS FOR MEASURED K VALUES.

S/No	X_1	$X_1 - \mu_1$	$(X_1 - \mu_1)^2$
1	2.783×10^{-2}	0.303×10^{-2}	9.181×10^{-6}
2	3.625×10^{-2}	1.145×10^{-2}	131.103×10^{-6}
3	1.773×10^{-2}	-0.707×10^{-2}	49.985×10^{-6}
4	1.871×10^{-2}	-0.609×10^{-2}	37.088×10^{-6}
5	3.238×10^{-2}	0.758×10^{-2}	57.456×10^{-6}
6	3.029×10^{-2}	0.549×10^{-2}	30.140×10^{-6}
7	1.688×10^{-2}	-0.792×10^{-2}	62.726×10^{-6}
8	1.832×10^{-2}	-0.648×10^{-2}	41.990×10^{-6}
	$\mathbf{2.480 \times 10^{-2}}$		$\mathbf{419.669 \times 10^{-6}}$

$$\mu_1 = \frac{\sum x_1}{N_1}$$

$$\frac{19.839 \times 10^{-2}}{8}$$

$$= 2.480 \times 10^{-2}$$

$$S_1 = \sqrt{\frac{\sum (x_1 - \mu_1)^2}{N_1}}$$

$$= \sqrt{\frac{(419.669 \times 10^{-6})}{8}}$$

$$= \sqrt{52.459 \times 10^{-6}}$$

$$= 7.243 \times 10^{-3}$$

Table C2: CALCULATIONS FOR MEAN AND STANDARD DEVIATIONS FOR SIMULATED K VALUES.

S/No	X_2	$X_2 - \mu_2$	$(X_2 - \mu_2)^2$
1	2.667×10^{-2}	0.317×10^{-2}	10.049×10^{-6}
2	3.875×10^{-2}	1.525×10^{-2}	232.563×10^{-6}
3	1.286×10^{-2}	-1.064×10^{-2}	113.210×10^{-6}
4	1.100×10^{-2}	-1.250×10^{-2}	156.250×10^{-6}
5	3.083×10^{-2}	0.733×10^{-2}	53.729×10^{-6}
6	2.818×10^{-2}	0.468×10^{-2}	21.902×10^{-6}
7	2.167×10^{-2}	-0.183×10^{-2}	3.349×10^{-6}
8	1.800×10^{-2}	-0.550×10^{-2}	30.250×10^{-6}
	$\mathbf{2.350 \times 10^{-2}}$		$\mathbf{621.302 \times 10^{-6}}$

$$\mu_2 = \frac{\sum x_2}{N_2} \qquad S_2 = \sqrt{\frac{\sum (x_2 - \mu_2)^2}{N_2}}$$

$$\frac{18.796 \times 10^{-2}}{8} \qquad = \sqrt{\frac{621.202 \times 10^{-6}}{N_2}}$$

$$= 2.350 \times 10^{-2} \qquad = \sqrt{77.663 \times 10^{-6}}$$

$$= 8.813 \times 10^{-3}$$

$$\mu_1 = 2.480 \times 10^{-2} \qquad S_1 = \sqrt{\frac{4.197 \times 10^{-4}}{8}} \qquad = 7.243 \times 10^{-3}$$

$$\mu_2 = 2.350 \times 10^{-2} \qquad S_2 = \sqrt{\frac{6.213 \times 10^{-4}}{8}} \qquad = 8.813 \times 10^{-3}$$

$$N_1 = N_2 = 8$$

$$T_{cal} = \frac{\mu_1 - \mu_2}{\sqrt{\left(\frac{(N_1 - 1)S_1^2 + (N_2 - 1)S_2^2}{N_1 + N_2 - 2}\right)\left(\frac{N_1 + N_2}{N_1 N_2}\right)}}$$

$$\frac{2.480 \times 10^{-2} - 2.350 \times 10^{-2}}{\sqrt{\frac{7[(7.243 \times 10^{-3})^2 + (8.813 \times 10^{-3})^2]}{14} \times \frac{16}{64}}} \qquad = 0.322$$

Degrees of freedom $= N_1 + N_2 - 2 = 8+8-2 = 14$

T_{table} at 95% probability confidence level is 2.14

since T_{cal} is less T_{table}, there is no significant difference in the two set of values.

TABLE C3: SUMMARY OF RESULTS OF INDIVIDUAL SITT PERFORMED FOR CONTROL SUBJECTS

		Time (min) values of plasma glucose level (mg/dl)										$K_{measured}$ x 10^{-2} (Min^{-1})
Name	Sex/Age.	-10	0	2	4	6	8	10	12	14	16	
AB	F/30	95	95	98	94	84	72	68	63	62	44	4.33
GF	F/24	66	65	64	54	49	45	41	30	38	38	5.33
OT	F/25	96	97	96	96	86	79	80	63	63	50	3.09
AO	M/22	67	67	42	67	69	56	41	31	46	40	3.4
AO	M/24	81	83	72	78	81	63	67	67	54	42	2.46
OO	M/25	73	71	58	57	63	52	56	54	48	39	2.04
PX	M/22	72	72	72	60	65	58	54	54	47	54	2.28
OX	F/25	69	66	66	52	49	49	36	33	33	33	4.33
NU	F/32	77	74	77	68	70	60	51	49	47	40	3.85
EX	M/24	78	76	76	48	62	51	54	48	48	42	3.65
TB	M/22	64	66	59	62	59	56	54	46	42	42	2.67
AS	M/39	90	85	91	85	80	76	75	65	80	59	2.17
SX	M/23	53	53	52	58	55	50	48	45	40	40	2.57
RA	M/60	60	58	58	62	58	58	53	53	53	50	1.03
SB	M/23	67	59	59	67	64	62	60	57	52	52	1.41
LY	M/33	70	84	82	81	78	78	75	70	70	43	2.65
OH	F/45	78	76	70	66	65	65	55	48	44	44	3.3
SG	M/30	70	63	59	59	59	57	54	50	42	42	2.77
MO	M/58	60	62	59	57	57	50	50	52	48	45	1.78
BO	F/39	81	68	69	66	61	52	50	37	37	43	3.73
DA	F/30	64	66	64	64	49	56	53	49	40	38	3.15
AX	M/25	56	72	60	59	55	36	56	49	48	39	2.1
FA	F/41	86	78	89	75	58	58	58	56	54	45	3.47
OS	M/37	84	84	80	70	61	59	59	54	47	38	4.17
BO	M/52	58	74	70	68	64	59	55	50	46	40	3.36
UT	F/36	69	69	67	67	72	62	60	55	51	51	2.18
SA	M/40	78	72	78	78	78	76	84	55	50	41	3.5
AX	F/35	67	71	67	67	66	64	53	50	47	45	3.07
OS	M/35	89	85	77	69	65	60	51	44	39	42	4.17

OSX	M/35	77	64	64	62	59	59	50	37	32	33	4.62
BA	M/35	77	74	74	72	66	60	54	49	54	32	3.89
OT	F/39	60	60	58	50	41	42	40	40	39	36	2.73
BSB	M/30	51	56	48	48	50	50	58	42	38	38	1.61
AM	M/50	76	66	64	66	66	70	60	51	48	47	2.89
PA	M/52	76	76	75	69	69	63	49	44	42	41	4.62
WA	M/54	83	75	70	73	71	66	62	59	54	56	2.14
NU	F/26	77	74	77	68	70	62	50	49	46	41	3.89
OV	F/40	72	69	66	72	59	53	50	47	40	47	3.15
NM	F/32	77	76	86	82	76	64	60	60	58	42	3.65
NO	F/31	75	85	87	75	60	75	60	60	45	32	4.5
OA	F/25	58	50	50	54	50	42	36	36	39	36	2.17
AM	F/33	66	69	66	49	49	43	43	30	32	30	4.75
IS	F/30	58	62	57	54	49	42	43	43	35	32	2.65
BT	F/30	77	77	86	78	70	64	60	60	58	44	3.47

$y = a + bx$, therefore $a = y - bx$

where a = intercept

b = slope

x = mean time, x = 9 for all patients

y = mean plasma glucose level

Table C4: SUMMARY OF RESULTS OF INDIVIDUAL SITT PERFORMED FOR DIABETIC SUBJECTS

		Time (min) values of plasma glucose level (mg/dl)										
Name	Sex/ Age	-10	0	2	4	6	8	10	12	14	16	$K_{measured}$ x 10^{-2} (Min^{-1})
KF	M/50	286	284	285	265	276	226	255	255	255	255	1.08
WO	F/60	162	162	151	151	145	145	145	142	145	145	0.5
WA	M/40	198	196	196	186	192	176	200	188	188	184	0.62
OG	F/40	88	88	88	85	68	81	68	84	71	70	1.58
OE	F/40	70	69	69	65	65	62	62	54	54	47	2.18
AL	F/45	248	246	246	295	246	262	238	238	238	230	1.44
AJ	M/45	88	87	87	80	88	88	85	84	81	84	0.29
OO	M/55	86	86	85	73	81	84	89	65	76	74	0.96
JO	M/43	106	105	107	105	95	92	95	92	88	84	1.73
OH	F/35	155	154	146	154	144	129	143	168	96	12	2.48
SF	F/45	156	154	154	154	171	168	154	164	142	129	0.98
OP	M/35	90	90	91	88	71	71	71	63	63	60	2.65
NP	F/47	106	108	96	95	88	88	92	64	67	74	2.17
AM	F/40	81	81	72	61	70	61	55	58	70	50	1.58
DK	F/39	98	101	84	96	83	76	74	58	52	63	3.15
AE	M/60	155	157	160	128	149	152	139	147	131	136	1.98
BB	F/56	112	110	119	122	109	115	94	88	91	76	3.04
KH	F/53	66	66	65	68	68	68	65	54	52	56	1.87
OM	F/57	65	65	62	59	64	65	65	59	57	55	0.96
EJ	M/35	78	87	87	85	82	78	80	76	67	62	1.74
OA	M/55	79	88	75	75	75	72	69	68	67	52	1.95
OI	M/40	86	83	80	74	74	76	70	60	53	45	2.94
BB	M/40	104	111	99	98	98	98	92	85	80	77	2.2
OO	M/38	160	155	155	156	166	161	155	149	145	138	1.2
OX	M/52	56	63	46	50	49	46	43	40	36	34	2.57
UJ	M/52	164	161	162	162	162	160	158	155	153	138	0.78
IA	F/40	169	170	170	172	169	169	167	150	142	133	2.09
AT	M/48	320	293	320	295	293	305	293	290	290	270	2.09

OJ	M/37	232	245	243	240	235	242	245	225	189	173	1.85
OJ	M/55	313	351	364	360	251	330	313	306	293	318	1.42
RA	M/52	76	81	84	78	78	77	76	62	54	59	2.17
AI	M/36	82	78	78	78	76	65	61	61	65	59	1.73
AS	M/35	94	94	89	83	78	78	81	76	72	67	1.78
OX	M/52	75	81	77	70	58	63	63	60	59	50	2.18
AG	M/38	192	171	188	185	183	178	165	160	156	144	1.73
AA	F/54	61	63	66	64	63	60	53	48	42	46	3.09
OJ	F/49	71	74	76	69	66	55	50	47	46	53	2.16
AD	M/39	186	192	192	190	189	168	159	158	157	151	1.82
YM	M/38	102	100	105	105	105	91	87	75	69	64	3.47
AC	F/60	96	90	90	92	92	83	83	75	71	62	2.44
OJ	M/34	92	94	94	72	72	66	71	71	68	62	1.19
LA	F/48	153	144	147	144	147	142	138	136	133	130	0.99
OA	F/45	161	180	194	199	202	210	222	204	192	192	0.09

TABLE C5: SITT DATA FOR MALE CONTROL SUBJECTS

	Time (min) values of plasma glucose level (mg/dl)										K x 10^{-2}
Subject	-10	0	2	4	6	8	10	12	14	16	(min-1)
AD	67	67	42	67	69	56	41	31	46	40	3.4
AO	81	83	72	78	81	63	67	67	54	42	2.46
OO	73	71	58	57	63	52	56	54	48	39	2.04
PX	72	72	72	60	65	58	54	54	57	54	2.28
EX	78	76	76	48	62	51	54	48	48	42	3.65
TB	64	66	59	62	59	56	54	46	42	42	2.67
AS	90	85	91	85	80	76	75	65	80	59	2.17
SX	53	53	52	58	55	50	48	45	40	40	2.57
RA	60	58	58	62	58	58	53	53	53	50	1.03
SB	67	59	59	67	64	62	60	57	52	52	1.41
LY	70	84	82	81	78	78	75	70	70	43	2.65
SG	70	63	59	59	59	57	54	50	42	42	2.77
MO	60	62	59	57	57	50	50	52	48	45	1.78
AX	56	72	60	59	55	36	56	49	48	39	2.1
OS	84	84	80	70	61	59	59	54	47	38	4.17
BO	58	74	70	68	64	59	55	50	46	40	3.36
SA	78	72	78	78	78	76	84	55	50	41	3.5
OS	89	85	77	69	65	60	51	44	39	42	4.17
OSX	77	64	64	62	59	59	50	37	32	33	4.62
OT	60	60	58	50	41	42	40	40	39	36	2.73
BSB	51	56	48	48	50	50	58	42	38	38	1.61
AM	76	66	64	66	66	70	60	51	48	47	2.89
PA	76	76	75	69	69	63	49	44	42	41	4.62
WA	83	75	70	73	71	66	62	59	54	56	2.14
Average	70.542	70.125	65.958	64.708	63.708	58.63	56.875	50.708	48.042	43.375	2.783

TABLE C6: SITT DATA FOR FEMALE CONTROL SUBJECTS

	Time (min) values of plasma glucose level (mg/dl)										Kx 10^{-2}
Subject	-10	0	2	4	6	8	10	12	14	16	(min-1)
AB	95	95	98	94	84	72	68	63	62	44	4.33
GF	66	65	64	54	49	45	41	30	38	38	5.33
OT	96	97	96	96	86	79	80	63	63	50	3.09
OX	69	66	66	52	49	49	36	33	33	33	4.33
NU	77	74	77	68	70	60	51	49	47	40	3.85
OH	78	76	70	66	65	65	55	48	44	44	3.3
BO	81	68	69	66	61	52	50	37	37	43	3.73
DA	64	66	64	64	49	56	53	49	40	38	3.15
FA	86	78	89	75	58	58	58	56	54	45	3.47
UT	69	69	67	67	72	62	60	55	51	51	2.18
AX	67	71	67	67	66	64	53	50	47	45	3.07
BA	77	74	74	72	66	60	54	49	46	41	3.89
NU	77	76	86	82	76	64	60	60	58	42	3.65
OV	72	69	66	72	59	53	50	47	40	47	3.15
NM	77	76	86	82	76	64	60	60	58	42	3.65
NO	75	85	87	75	60	75	60	60	45	32	4.5
OA	58	50	50	54	50	42	36	36	39	36	2.71
AM	66	69	66	49	43	43	30	32	30	30	4.75
IS	58	62	57	54	49	42	43	43	35	32	2.65
BT	77	77	86	78	70	64	60	60	58	44	3.47
Average	74.25	73.05	73.8	68.65	62.9	58.35	53.05	48.35	46.15	40.35	3.625

TABLE C7: SITT DATA FOR MALE DIABETIC SUBJECTS

	Time (min) values of plasma glucose level (mg/dl)										$Kx\ 10^{-2}$
Subject	-10	0	2	4	6	8	10	12	14	16	(min-1)
KF	286	284	285	265	276	226	255	255	255	255	1.08
WA	198	196	196	186	192	176	200	188	188	184	0.62
AL	248	246	246	295	246	262	238	238	238	230	1.44
AJ	88	87	87	80	88	88	85	84	81	84	0.29
OO	86	86	85	73	81	84	89	65	76	74	0.96
JO	106	105	107	105	95	92	95	92	88	84	1.73
OP	90	90	91	88	71	71	71	63	63	60	2.65
AE	155	157	160	128	149	152	139	147	131	136	1.98
EJ	78	87	87	85	82	78	80	76	67	62	1.74
OA	79	88	75	75	75	72	69	68	67	52	1.95
IO	86	83	80	74	74	76	70	60	53	45	2.94
BB	104	111	99	98	98	98	92	85	80	77	2.2
OO	160	155	155	156	166	161	155	149	145	138	1.2
OX	56	63	46	50	49	46	43	40	36	34	2.57
UJ	164	161	162	162	162	160	158	155	153	138	0.78
AT	320	293	320	295	293	305	293	290	290	270	2.09
OJ	323	245	243	240	235	242	245	225	189	173	1.85
OJ	313	351	364	360	351	330	313	306	293	318	1.42
RA	76	81	84	78	78	77	76	62	54	59	2.17
AI	82	78	78	78	76	65	61	61	65	59	1.73
AS	94	94	89	83	78	78	81	76	72	67	1.78
OX	75	81	77	70	58	63	63	60	59	50	2.18
AG	192	171	188	185	183	178	165	160	156	144	1.73
AD	186	192	192	190	189	168	159	158	157	151	1.82
YM	102	100	105	105	105	92	87	75	69	64	3.47
OJ	92	94	94	72	72	66	71	71	68	62	1.19
Average	144.15	145.35	145.96	141.38	139.31	134.9	132.81	127.27	122.81	118.08	1.773

TABLE C8: SITT DATA FOR FEMALE DIABETIC SUBJECTS

	Time (min) values of plasma glucose level (mg/dl)										Kx 10^{-2}
Subject	-10	0	2	4	6	8	10	12	14	16	(min-1)
WO	162	162	151	151	145	145	145	142	145	145	0.5
OG	88	88	88	85	68	81	68	84	71	70	1.58
OE	70	69	69	65	65	62	62	54	54	47	2.18
OH	155	154	146	154	144	129	143	168	96	92	2.48
SF	156	154	154	154	171	168	154	164	142	139	0.98
NP	106	108	96	95	88	88	92	94	67	74	2.17
AM	81	81	72	61	70	61	55	58	70	50	1.58
DK	98	101	84	96	83	76	74	58	52	63	3.15
BB	112	110	119	122	109	115	94	88	91	76	3.04
KH	66	66	65	68	68	68	65	59	57	55	0.96
OM	65	65	62	59	64	65	63	59	57	55	0.96
IA	169	170	170	172	169	169	167	150	142	133	2.09
AA	61	63	66	64	63	60	53	48	42	46	3.09
OJ	71	74	76	69	66	55	50	47	46	53	2.61
AC	96	90	90	92	92	83	83	75	71	62	2.44
LA	153	144	147	144	147	142	138	136	133	130	0.99
OA	161	180	194	199	202	210	222	204	192	192	0.09
Average	110	110.53	108. 76	108. 82	106. 71	104 .5	101. 65	99	89.5 9	87.2 4	1.871

TABLE C9: CONTROL SUBJECTS OF AGE $\leq$ 35

	Time (min) values of plasma glucose level (mg/dl)										Kx 10^{-2}
Subject	-10	0	2	4	6	8	10	12	14	16	(min-1)
AB	95	95	98	94	84	72	68	63	62	44	4.33
GF	66	65	64	54	49	45	41	30	38	38	5.33
OT	96	97	96	96	86	79	80	63	63	50	3.09
AO	67	67	42	67	69	56	41	31	46	40	3.4
AO	81	83	72	78	81	63	67	67	54	42	2.46
OO	73	71	58	57	63	52	56	54	48	39	2.04
PX	72	72	72	60	65	58	54	54	47	54	2.28
OX	69	66	66	52	49	49	36	33	33	33	4.33
NU	77	74	77	68	70	60	51	49	47	40	3.85
EX	78	76	76	48	62	51	54	48	48	42	3.65
TB	64	66	59	62	59	56	54	46	42	42	2.67
SX	53	53	52	58	55	50	48	45	40	40	2.57
SB	67	59	59	67	64	62	60	57	52	52	1.41
LY	70	84	82	81	78	78	75	70	70	43	2.65
SG	70	63	59	59	59	57	54	50	42	42	2.77
DA	64	66	64	64	49	56	53	49	40	38	3.15
AX	56	72	60	59	55	36	56	49	48	39	2.1
AX	67	71	67	67	66	64	53	50	47	45	3.07
OS	89	85	77	69	65	60	51	44	39	42	4.17
OSX	77	64	64	62	59	59	50	37	32	33	4.62
OT	60	60	58	50	41	42	40	40	39	36	2.73
BSB	51	56	48	48	50	50	58	42	38	38	1.61
NU	77	74	77	68	70	62	50	49	46	41	3.89
NM	77	76	86	82	76	64	60	60	58	42	3.65
NO	75	85	87	75	60	75	60	60	45	32	4.5
OA	58	50	50	54	50	42	36	36	39	36	2.71
AM	66	69	66	49	49	43	43	30	32	30	4.75
IS	58	62	57	54	49	42	43	43	35	32	2.65
BT	77	77	86	78	70	64	60	60	58	44	3.47
Average	70.69	70.97	68.24	64.83	62.14	56.69	53.52	48.59	45.79	40.31	3.238

TABLE C10: CONTROL SUBJECTS OF AGE > 35

	Time (min) values of plasma glucose level (mg/dl)										Kx 10^{-2}
Subject	-10	0	2	4	6	8	10	12	14	16	(min-1)
AS	90	85	91	85	80	76	75	65	80	59	2.17
RA	60	58	58	62	58	58	53	53	53	50	1.03
OH	78	76	70	66	65	65	55	48	44	44	3.3
MO	60	62	59	57	57	50	50	52	48	45	1.78
BO	81	68	69	66	61	52	50	37	37	43	3.73
FA	86	78	89	75	58	58	58	56	54	45	3.47
OS	84	84	80	70	61	59	59	54	47	38	4.17
BO	58	74	70	68	64	59	55	50	46	40	3.36
UT	69	69	67	67	72	62	60	55	51	51	2.18
SA	78	72	78	78	78	76	84	55	50	41	3.5
BA	77	74	74	72	66	60	54	49	54	32	3.89
AM	76	66	64	66	66	70	60	51	48	47	2.89
PA	76	76	75	69	69	63	49	44	42	41	4.62
WA	83	75	70	73	71	66	62	59	54	56	2.14
OV	72	69	66	72	59	53	50	47	40	47	3.15
Average	75.2	72.4	72	69.73	65.67	61.8	58.27	51.67	49.87	45.27	3.029

Table C11: Diabetic subjects of age $\leq$ 35

	Time (min) values of plasma glucose level (mg/dl)										Kx 10^{-2}
Subject	-10	0	2	4	6	8	10	12	14	16	(min-1)
AJ	88	87	87	80	88	88	85	84	81	84	0.29
OH	155	154	146	154	144	129	143	168	96	92	2.48
OP	90	90	91	88	71	71	71	63	63	60	2.65
EJ	78	87	87	85	82	78	80	76	67	62	1.74
AS	94	94	89	83	78	78	81	76	72	67	1.78
OJ	92	94	94	72	72	66	71	71	68	62	1.19
Average	99.5	101	99	93.67	89.17	85	88.5	89.67	74.5	71.17	1.688

Table C12: Diabetic subjects of age > 35

	Time (min) values of plasma glucose level (mg/dl)										Kx 10^{-2}
Subject	-10	0	2	4	6	8	10	12	14	16	(min-1)
KF	286	284	285	265	276	226	255	255	255	255	1.08
WO	162	162	151	151	145	145	145	142	145	145	0.5
WA	198	196	196	186	192	176	200	188	188	184	0.62
OG	88	88	88	85	68	81	68	84	71	70	1.58
DE	70	69	69	65	65	62	62	54	54	47	2.18
AL	248	246	246	295	246	262	238	238	238	230	1.44
OO	86	86	85	73	81	84	89	65	76	74	0.96
JO	106	105	107	105	95	92	95	92	88	84	1.73
SF	156	154	154	154	171	168	154	164	142	139	0.98
NP	106	108	96	95	88	88	92	94	67	74	2.17
AM	81	81	72	61	70	61	55	58	70	50	1.58
DK	98	101	84	96	83	76	74	58	52	63	3.15
AE	155	157	160	128	149	152	139	147	131	136	1.98
BB	112	110	119	122	109	115	94	88	91	76	3.04
KH	66	66	65	68	68	68	65	54	52	56	1.87
OM	65	65	62	59	64	65	63	59	57	55	0.96
OA	79	88	75	75	75	72	69	68	67	52	1.95
OI	86	83	80	74	74	76	70	60	53	45	2.94
BB	104	111	99	98	98	98	92	85	80	77	2.2

OO	160	155	155	156	166	161	155	149	145	138	1.2
OX	56	63	46	50	49	46	43	40	36	34	2.57
UJ	164	161	162	162	162	160	158	155	153	138	0.78
IA	169	170	170	172	169	169	167	150	142	133	2.09
AT	320	293	320	295	293	305	293	290	290	270	2.09
OJ	232	245	243	240	235	242	245	225	189	173	1.85
OJ	313	351	364	360	351	330	313	306	293	318	1.42
RA	76	81	84	78	78	77	76	62	54	59	2.71
AI	82	78	78	78	76	65	61	61	65	59	1.73
OX	75	81	77	70	58	63	63	60	59	50	2.18
AG	192	171	188	185	183	178	165	160	156	144	1.73
AA	61	63	66	64	63	60	53	48	42	46	3.09
OJ	71	74	76	69	66	55	50	47	46	53	2.61
AD	186	192	192	190	189	168	159	158	157	151	1.82
YM	102	100	105	105	105	92	87	75	69	64	3.47
AC	96	90	90	92	92	83	83	75	71	62	2.44
LA	153	144	147	144	147	172	138	136	133	130	0.99
OA	161	180	194	199	202	210	222	204	1922	192	0.09
										111	
Average	135.7	136.54	136.49	134.16	132.46	129	125.68	120.38	115.38	.51	1.832