

GOKIND STUDY
SUMMARY OF CLINICAL AND BIOCHEMICAL CHARACTERISTICS OF ELIGIBLE PROBAND
JOSLIN CLINIC - FINAL PHASE 1 GOKIND - DATA AS OF 18APR06

		CASE		CONTROL	
CHARACTERISTIC	STATISTICS/ CATEGORIES	TRIO	SINGLETON	TRIO	SINGLETON
N=:		180	318	153	345
SEX (%):	male	79 (43.9 %)	179 (56.3 %)	75 (49.0 %)	156 (45.2 %)
AGE AT ENTRY:	n	180	318	153	345
	mean (std)	39.3 (7.3)	43.1 (6.9)	35.6 (7.9)	40.7 (8.1)
	minimum	20.0	22.0	20.0	20.0
	25th-percentile	34.0	39.0	30.0	35.0
	median	38.5	43.0	36.0	42.0
	75th-percentile	45.0	48.0	41.0	47.0
	maximum	55.0	56.0	53.0	55.0
RACE:	white	175 (97.2 %)	281 (88.4 %)	151 (98.7 %)	335 (97.1 %)
	black	2 (1.1 %)	22 (6.9 %)	0 (0.0 %)	4 (1.2 %)
	hispanic	2 (1.1 %)	8 (2.5 %)	2 (1.3 %)	3 (0.9 %)
	american indian/alas	0 (0.0 %)	2 (0.6 %)	0 (0.0 %)	0 (0.0 %)
	other	1 (0.6 %)	4 (1.3 %)	0 (0.0 %)	2 (0.6 %)
	missing	0 (0.0 %)	1 (0.3 %)	0 (0.0 %)	1 (0.3 %)
DURATION of DIABETES (yrs):	n	180	318	153	345
	mean (std)	28.9 (7.2)	30.6 (8.3)	24.5 (7.1)	27.0 (8.2)
	minimum	11.0	10.0	15.0	15.0
	25th-percentile	24.0	24.0	19.0	21.0
	median	29.0	31.0	23.0	26.0
	75th-percentile	34.0	37.0	29.0	33.0
	maximum	50.0	54.0	47.0	49.0
NOW ON INSULIN(NON-PANCR. TRANS.)	yes	161 (100.0 %)	288 (100.0 %)	153 (100.0 %)	345 (100.0 %)

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		TRIO	SINGLETON	TRIO	SINGLETON
INSUL. REGIMEN(NON-PANCR. TRANS.)	<2 Shots	7 (4.3 %)	19 (6.6 %)	5 (3.3 %)	18 (5.2 %)
	MDI	119 (73.9 %)	219 (76.0 %)	88 (57.5 %)	223 (64.6 %)
	pump	34 (21.1 %)	47 (16.3 %)	58 (37.9 %)	100 (29.0 %)
	missing	1 (0.6 %)	3 (1.0 %)	2 (1.3 %)	4 (1.2 %)
INSULIN DOSAGE(units/kg/day):	n	160	282	152	337
	mean (std)	0.6 (0.2)	0.6 (0.3)	0.6 (0.2)	0.6 (0.2)
	minimum	0.1	0.1	0.1	0.1
	25th-percentile	0.5	0.4	0.4	0.4
	median	0.6	0.6	0.6	0.5
	75th-percentile	0.7	0.7	0.7	0.6
	maximum	1.7	2.7	1.3	1.6
FOCAL LASER TREATMENT:	no	176 (97.8 %)	306 (96.2 %)	150 (98.0 %)	336 (97.4 %)
	yes	3 (1.7 %)	3 (0.9 %)	1 (0.7 %)	3 (0.9 %)
	unknown	1 (0.6 %)	5 (1.6 %)	1 (0.7 %)	3 (0.9 %)
	missing	0 (0.0 %)	4 (1.3 %)	1 (0.7 %)	3 (0.9 %)
PAN-RETINAL LASER TREATMENT:	no	35 (19.4 %)	46 (14.5 %)	121 (79.1 %)	261 (75.7 %)
	yes	144 (80.0 %)	263 (82.7 %)	30 (19.6 %)	78 (22.6 %)
	unknown	1 (0.6 %)	5 (1.6 %)	1 (0.7 %)	3 (0.9 %)
	missing	0 (0.0 %)	4 (1.3 %)	1 (0.7 %)	3 (0.9 %)
ESRD:	no	108 (60.0 %)	160 (50.3 %)	153 (100.0 %)	345 (100.0 %)
	yes	72 (40.0 %)	158 (49.7 %)	0 (0.0 %)	0 (0.0 %)

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CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		TRIO	SINGLETON	TRIO	SINGLETON
ACR1 (ug/mg) (NON_ESRD ONLY):	n	100	159	151	344
	mean (std)	1413.9 (1437)	1412.2 (1271)	7.5 (4.7)	6.9 (4.3)
	minimum	8.6	3.9	0.0	0.0
	25th-percentile	482.2	521.7	4.1	4.0
	median	860.4	1051.9	5.9	5.8
	75th-percentile	1685.2	1641.0	10.0	9.2
	maximum	8714.3	7087.7	19.5	19.5
ACR2 (ug/mg) (NON_ESRD ONLY):	n	108	159	153	345
	mean (std)	1680.7 (1612)	1743.9 (2188)	7.0 (5.8)	7.2 (5.2)
	minimum	74.6	76.2	1.3	0.6
	25th-percentile	532.8	485.8	3.4	3.8
	median	1137.2	1073.7	5.3	5.7
	75th-percentile	2243.5	1893.2	8.4	8.6
	maximum	8431.4	15969.7	37.5	38.3
ACR3 (ug/mg) (NON_ESRD ONLY):	n	7	15	8	12
	mean (std)	1391.5 (1057)	1925.4 (4790)	8.6 (4.5)	11.4 (5.7)
	minimum	308.7	321.8	1.7	3.7
	25th-percentile	700.0	376.4	5.4	5.9
	median	972.9	489.7	8.0	12.1
	75th-percentile	2852.9	938.8	13.0	16.3
	maximum	2940.0	19102.0	14.3	18.8
CARDIOVASCULAR COMPLICATION:	no	45 (25.0 %)	61 (19.2 %)	147 (96.1 %)	326 (94.5 %)
	yes	135 (75.0 %)	257 (80.8 %)	6 (3.9 %)	19 (5.5 %)

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CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		TRIO	SINGLETON	TRIO	SINGLETON
HYPERTENSIVE:	no	34 (18.9 %)	45 (14.2 %)	148 (96.7 %)	316 (91.6 %)
	yes	146 (81.1 %)	273 (85.8 %)	5 (3.3 %)	28 (8.1 %)
	unknown	0 (0.0 %)	0 (0.0 %)	0 (0.0 %)	1 (0.3 %)
NEUROPATHY DUE TO DIABETES:	no	65 (36.1 %)	111 (34.9 %)	135 (88.2 %)	291 (84.3 %)
	yes	115 (63.9 %)	205 (64.5 %)	16 (10.5 %)	49 (14.2 %)
	unknown	0 (0.0 %)	2 (0.6 %)	2 (1.3 %)	5 (1.4 %)
PERIPHERAL VASCULAR COMPLICATION:	no	149 (82.8 %)	208 (65.4 %)	152 (99.3 %)	335 (97.1 %)
	yes	31 (17.2 %)	107 (33.6 %)	0 (0.0 %)	5 (1.4 %)
	unknown	0 (0.0 %)	3 (0.9 %)	1 (0.7 %)	5 (1.4 %)
GANGRENE:	no	174 (96.7 %)	303 (95.3 %)	152 (99.3 %)	340 (98.6 %)
	yes	6 (3.3 %)	11 (3.5 %)	0 (0.0 %)	0 (0.0 %)
	unknown	0 (0.0 %)	1 (0.3 %)	0 (0.0 %)	0 (0.0 %)
	missing	0 (0.0 %)	3 (0.9 %)	1 (0.7 %)	5 (1.4 %)
NON-TRAUMATIC AMPUTATION:	no	166 (92.2 %)	264 (83.0 %)	152 (99.3 %)	340 (98.6 %)
	yes	14 (7.8 %)	50 (15.7 %)	0 (0.0 %)	0 (0.0 %)
	unknown	0 (0.0 %)	1 (0.3 %)	0 (0.0 %)	0 (0.0 %)
	missing	0 (0.0 %)	3 (0.9 %)	1 (0.7 %)	5 (1.4 %)
AUTO-IMMUNE DISEASE:	No	162 (90.0 %)	265 (83.3 %)	123 (80.4 %)	278 (80.6 %)
	Yes (with 1 disease)	15 (8.3 %)	44 (13.8 %)	25 (16.3 %)	59 (17.1 %)
	Yes (with >1 disease)	3 (1.7 %)	9 (2.8 %)	5 (3.3 %)	8 (2.3 %)
EVER SMOKED:	no	91 (50.6 %)	137 (43.1 %)	94 (61.4 %)	223 (64.6 %)
	yes	89 (49.4 %)	181 (56.9 %)	58 (37.9 %)	118 (34.2 %)
	unknown	0 (0.0 %)	0 (0.0 %)	1 (0.7 %)	4 (1.2 %)

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CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		TRIO	SINGLETON	TRIO	SINGLETON
CURRENT SMOKER:	no	146 (81.1 %)	252 (79.2 %)	131 (85.6 %)	306 (88.7 %)
	yes	34 (18.9 %)	66 (20.8 %)	21 (13.7 %)	35 (10.1 %)
	unknown	0 (0.0 %)	0 (0.0 %)	0 (0.0 %)	1 (0.3 %)
	missing	0 (0.0 %)	0 (0.0 %)	1 (0.7 %)	3 (0.9 %)
ABNORMAL SERUM CREATININE:	no	93 (51.7 %)	139 (43.7 %)	152 (99.3 %)	342 (99.1 %)
	yes	87 (48.3 %)	179 (56.3 %)	1 (0.7 %)	3 (0.9 %)
SYSTOLIC BP (mm Hg):	n	178	315	151	344
	mean (std)	129.0 (17.3)	132.4 (18.4)	116.3 (10.3)	119.1 (12.0)
	minimum	90.0	81.0	90.0	92.0
	25th-percentile	119.0	120.0	110.0	110.0
	median	128.0	131.0	118.0	119.0
	75th-percentile	140.0	144.0	123.0	126.0
	maximum	192.0	206.0	168.0	178.0
DIASTOLIC BP (mm Hg):	n	178	315	151	344
	mean (std)	75.5 (10.2)	74.8 (10.7)	71.3 (7.3)	71.9 (7.9)
	minimum	42.0	40.0	50.0	50.0
	25th-percentile	69.0	69.0	68.0	68.0
	median	76.8	74.0	70.0	70.0
	75th-percentile	82.0	81.0	78.0	78.0
	maximum	102.0	105.0	90.0	97.0

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		TRIO	SINGLETON	TRIO	SINGLETON
BODY MASS INDEX (kg/m ²):	n	180	317	153	345
	mean (std)	25.3 (5.0)	26.3 (5.4)	26.5 (4.1)	25.8 (4.1)
	minimum	16.5	15.1	18.1	18.1
	25th-percentile	21.6	22.5	23.5	23.1
	median	24.1	25.3	25.9	24.9
	75th-percentile	28.1	29.0	28.7	27.6
	maximum	44.0	47.9	38.7	41.1
GFR(Cockcroft-Gault)(ml/min):	n	149	291	148	334
	mean (std)	62.9 (30.7)	62.4 (34.7)	113.0 (24.5)	107.4 (27.5)
	minimum	7.0	6.6	43.1	52.3
	25th-percentile	38.4	36.9	94.7	88.0
	median	64.2	57.9	113.6	104.7
	75th-percentile	85.7	83.9	129.8	123.8
	maximum	141.0	163.3	189.4	203.6
HBA1C (%):	n	178	307	151	344
	mean (std)	8.2 (1.9)	8.3 (1.7)	7.5 (1.3)	7.6 (1.1)
	minimum	4.6	4.2	5.1	4.8
	25th-percentile	6.9	7.1	6.6	6.9
	median	8.2	8.2	7.4	7.4
	75th-percentile	9.4	9.4	8.2	8.2
	maximum	14.0	12.9	13.0	12.3

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CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		TRIO	SINGLETON	TRIO	SINGLETON
TOTAL CHOLESTEROL (mg/dL):	n	150	291	149	334
	mean (std)	205.4 (44.5)	197.1 (46.9)	187.7 (33.1)	187.5 (31.4)
	minimum	98.0	84.0	117.0	114.0
	25th-percentile	178.0	165.0	165.0	166.0
	median	197.0	192.0	184.0	184.0
	75th-percentile	233.0	218.0	208.0	203.0
	maximum	385.0	472.0	301.0	294.0
HDL (mg/dL):	n	150	291	149	334
	mean (std)	58.3 (17.4)	54.2 (18.1)	56.9 (14.0)	60.1 (16.0)
	minimum	24.0	20.0	30.0	28.0
	25th-percentile	44.0	42.0	46.0	49.0
	median	57.0	51.0	56.0	58.0
	75th-percentile	70.0	63.0	65.0	68.0
	maximum	118.0	138.0	101.0	105.0
SERUM CREATININE (mg/dL):	n	149	291	148	334
	mean (std)	2.0 (1.6)	2.3 (2.1)	0.9 (0.1)	0.9 (0.2)
	minimum	0.7	0.7	0.6	0.4
	25th-percentile	1.2	1.2	0.8	0.8
	median	1.5	1.6	0.9	0.9
	75th-percentile	2.3	2.4	1.0	1.0
	maximum	11.3	13.1	1.4	1.6

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CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		TRIO	SINGLETON	TRIO	SINGLETON
SERUM CYSTATIN (mg/L):	n	149	290	148	334
	mean (std)	2.1 (1.4)	2.4 (1.8)	0.8 (0.1)	0.8 (0.1)
	minimum	0.6	0.7	0.4	0.5
	25th-percentile	1.3	1.3	0.7	0.7
	median	1.6	1.8	0.8	0.8
	75th-percentile	2.8	2.9	0.9	0.9
	maximum	9.5	10.7	1.2	1.4
TAKING LIPID LOWERING MEDICATION:	no	112 (62.2 %)	170 (53.5 %)	126 (82.4 %)	291 (84.3 %)
	yes	68 (37.8 %)	148 (46.5 %)	27 (17.6 %)	54 (15.7 %)
TAKING ACE INHIBITORS:	no	57 (31.7 %)	119 (37.4 %)	153 (100.0 %)	345 (100.0 %)
	yes	123 (68.3 %)	199 (62.6 %)	0 (0.0 %)	0 (0.0 %)
TAKING ANTI-HYPERTENSIVE DRUGS:	no	98 (54.4 %)	146 (45.9 %)	153 (100.0 %)	345 (100.0 %)
	yes	82 (45.6 %)	172 (54.1 %)	0 (0.0 %)	0 (0.0 %)
PANCREAS TRANSPLANT:	no	161 (89.4 %)	288 (90.6 %)	153 (100.0 %)	345 (100.0 %)
	yes	19 (10.6 %)	30 (9.4 %)	0 (0.0 %)	0 (0.0 %)
Time To Event:	n	72	158	0	0
	mean (std)	25.2 (7.1)	24.7 (7.0)	. (.)	. (.)
	minimum	13.0	9.0	.	.
	25th-percentile	20.5	20.0	.	.
	median	24.0	23.5	.	.
	75th-percentile	30.5	30.0	.	.
	maximum	46.0	45.0	.	.
RENAL FUNCTION STATUS:	CONTROL	0 (0.0 %)	0 (0.0 %)	153 (100.0 %)	345 (100.0 %)
	PROTEINURIC	108 (60.0 %)	160 (50.3 %)	0 (0.0 %)	0 (0.0 %)

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CHARACTERISTIC	STATISTICS/ CATEGORIES	TRIO	SINGLETON	TRIO	SINGLETON
	DIALYSIS	6 (3.3 %)	29 (9.1 %)	0 (0.0 %)	0 (0.0 %)
	TRANSPLANT	66 (36.7 %)	129 (40.6 %)	0 (0.0 %)	0 (0.0 %)

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