

**GOKIND STUDY**  
**SUMMARY OF CLINICAL AND BIOCHEMICAL CHARACTERISTICS OF PARENTS OF ELIGIBLE TRIO PROBANDS**  
**GWU CLINICS - FINAL PHASE 1 GOKIND - DATA AS OF 18APR06**

CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		FATHER	MOTHER	FATHER	MOTHER
N=:		91	91	169	169
AGE AT ENTRY:	n	91	91	169	169
	mean (std)	68.9 ( 10.6 )	66.1 ( 10.1 )	63.6 ( 9.4 )	61.5 ( 9.0 )
	minimum	0.0	0.0	40.0	39.0
	25th-percentile	64.0	61.0	56.0	55.0
	median	70.0	67.0	63.0	60.0
	75th-percentile	76.0	73.0	72.0	68.0
	maximum	84.0	81.0	84.0	84.0
RACE:	white	80 ( 87.9 % )	83 ( 91.2 % )	163 ( 96.4 % )	162 ( 95.9 % )
	black	1 ( 1.1 % )	0 ( 0.0 % )	1 ( 0.6 % )	1 ( 0.6 % )
	hispanic	9 ( 9.9 % )	8 ( 8.8 % )	1 ( 0.6 % )	2 ( 1.2 % )
	asian/pacific island	0 ( 0.0 % )	0 ( 0.0 % )	3 ( 1.8 % )	4 ( 2.4 % )
	american indian/alas	0 ( 0.0 % )	0 ( 0.0 % )	1 ( 0.6 % )	0 ( 0.0 % )
DIABETES(TYPE 1 & TYPE 2):	no	76 ( 83.5 % )	80 ( 87.9 % )	148 ( 87.6 % )	153 ( 90.5 % )
	yes	15 ( 16.5 % )	11 ( 12.1 % )	21 ( 12.4 % )	16 ( 9.5 % )
TYPE 1 or TYPE 2 DIABETES(DIAB.ONLY):	1) Type 1 Diabetes	3 ( 20.0 % )	3 ( 27.3 % )	4 ( 19.0 % )	6 ( 37.5 % )
	2) Type 2 Diabetes	10 ( 66.7 % )	8 ( 72.7 % )	16 ( 76.2 % )	10 ( 62.5 % )
	3) Unknown Type Diab	2 ( 13.3 % )	0 ( 0.0 % )	1 ( 4.8 % )	0 ( 0.0 % )
DURATION of DIAB(yrs)(DIAB ONLY):	n	13	11	20	16
	mean (std)	16.4 ( 15.3 )	27.1 ( 20.8 )	16.1 ( 13.5 )	19.6 ( 15.5 )
	minimum	1.0	0.0	0.0	2.0
	25th-percentile	3.0	4.0	3.5	6.5
	median	11.0	21.0	17.0	19.5

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		FATHER	MOTHER	FATHER	MOTHER
	75th-percentile	24.0	49.0	27.0	31.5
	maximum	46.0	53.0	48.0	57.0

CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		FATHER	MOTHER	FATHER	MOTHER
TAKING INSULIN(DIAB. ONLY)	no	8 ( 53.3 %)	3 ( 27.3 %)	10 ( 47.6 %)	6 ( 37.5 %)
	yes	7 ( 46.7 %)	8 ( 72.7 %)	10 ( 47.6 %)	10 ( 62.5 %)
INSUL. REGIMEN(TAKING INSULIN ONLY)	<2 Shots	3 ( 42.9 %)	1 ( 12.5 %)	2 ( 20.0 %)	2 ( 20.0 %)
	MDI	3 ( 42.9 %)	6 ( 75.0 %)	4 ( 40.0 %)	5 ( 50.0 %)
	pump	0 ( 0.0 %)	1 ( 12.5 %)	3 ( 30.0 %)	2 ( 20.0 %)
	other	1 ( 14.3 %)	0 ( 0.0 %)	0 ( 0.0 %)	1 ( 10.0 %)
INSUL DOSAGE(units/kg/day):	n	8	8	12	11
	mean (std)	0.5 ( 0.6 )	0.8 ( 0.5 )	0.3 ( 0.3 )	0.4 ( 0.3 )
	minimum	0.0	0.0	0.0	0.0
	25th-percentile	0.1	0.5	0.0	0.2
	median	0.4	0.6	0.2	0.4
	75th-percentile	0.8	1.1	0.5	0.6
	maximum	1.6	1.8	0.9	1.0
FOCAL LASER TREATMENT:	no	90 ( 98.9 %)	91 (100.0 %)	167 ( 98.8 %)	169 (100.0 %)
	yes	0 ( 0.0 %)	0 ( 0.0 %)	2 ( 1.2 %)	0 ( 0.0 %)
PAN-RETINAL LASER TREATMENT:	no	87 ( 95.6 %)	90 ( 98.9 %)	167 ( 98.8 %)	169 (100.0 %)
	yes	4 ( 4.4 %)	1 ( 1.1 %)	2 ( 1.2 %)	0 ( 0.0 %)
ESRD:	no	91 (100.0 %)	91 (100.0 %)	167 ( 98.8 %)	169 (100.0 %)

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CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
	yes	0 ( 0.0 %)	0 ( 0.0 %)	2 ( 1.2 %)	0 ( 0.0 %)
ACR1(ug/mg)(NON_ESRD ONLY):	n	85	80	162	163
	mean (std)	164.4 (720.0)	23.3 ( 64.0)	38.8 (238.0)	8.3 ( 10.2)
	minimum	1.0	2.7	0.5	0.5
	25th-percentile	4.3	5.2	3.7	4.2
	median	7.1	8.9	5.3	5.7
	75th-percentile	18.4	17.0	11.6	9.3
	maximum	4537.3	550.0	2900.0	113.0

		CASE		CONTROL	
CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
CARDIOVASCULAR COMPLICATION:	no	23 ( 25.3 %)	26 ( 28.6 %)	81 ( 47.9 %)	100 ( 59.2 %)
	yes	68 ( 74.7 %)	65 ( 71.4 %)	88 ( 52.1 %)	69 ( 40.8 %)
HYPERTENSIVE:	no	42 ( 46.2 %)	38 ( 41.8 %)	99 ( 58.6 %)	112 ( 66.3 %)
	yes	49 ( 53.8 %)	53 ( 58.2 %)	70 ( 41.4 %)	57 ( 33.7 %)
NEUROPATHY:	no	16 ( 17.6 %)	10 ( 11.0 %)	32 ( 18.9 %)	30 ( 17.8 %)
	yes	5 ( 5.5 %)	5 ( 5.5 %)	4 ( 2.4 %)	2 ( 1.2 %)
	unknown	0 ( 0.0 %)	0 ( 0.0 %)	1 ( 0.6 %)	1 ( 0.6 %)
PERIPHERAL VASCULAR DISEASE:	no	84 ( 92.3 %)	85 ( 93.4 %)	165 ( 97.6 %)	166 ( 98.2 %)
	yes	7 ( 7.7 %)	5 ( 5.5 %)	4 ( 2.4 %)	3 ( 1.8 %)
AUTO-IMMUNE DISEASE:	No	73 ( 80.2 %)	57 ( 62.6 %)	132 ( 78.1 %)	115 ( 68.0 %)
	Yes (with 1 disease)	15 ( 16.5 %)	30 ( 33.0 %)	29 ( 17.2 %)	42 ( 24.9 %)
	Yes (with >1 disease)	3 ( 3.3 %)	4 ( 4.4 %)	8 ( 4.7 %)	12 ( 7.1 %)

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CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		FATHER	MOTHER	FATHER	MOTHER
CURRENT SMOKING:	no	84 ( 92.3 %)	78 ( 85.7 %)	149 ( 88.2 %)	162 ( 95.9 %)
	yes	7 ( 7.7 %)	12 ( 13.2 %)	18 ( 10.7 %)	6 ( 3.6 %)
EVER SMOKER:	no	22 ( 24.2 %)	51 ( 56.0 %)	76 ( 45.0 %)	101 ( 59.8 %)
	yes	69 ( 75.8 %)	40 ( 44.0 %)	93 ( 55.0 %)	68 ( 40.2 %)
SYSTOLIC BP (mm Hg):	n	87	86	154	151
	mean (std)	134.6 ( 19.6 )	138.8 ( 17.4 )	129.7 ( 15.8 )	127.0 ( 16.7 )
	minimum	97.0	93.0	93.0	90.0
	25th-percentile	120.0	125.0	119.0	115.0
	median	134.0	138.8	129.0	126.0
	75th-percentile	145.0	152.0	140.0	136.5
	maximum	196.0	199.0	182.0	170.0

CHARACTERISTIC	STATISTICS/ CATEGORIES	CASE		CONTROL	
		FATHER	MOTHER	FATHER	MOTHER
DIASTOLIC BP (mm Hg):	n	87	86	154	153
	mean (std)	74.5 ( 10.7 )	75.1 ( 11.2 )	76.0 ( 9.4 )	74.5 ( 10.5 )
	minimum	54.0	45.0	53.5	49.5
	25th-percentile	67.5	67.0	70.0	68.0
	median	74.0	77.0	76.0	73.0
	75th-percentile	80.0	83.0	81.0	81.0
	maximum	107.0	103.0	110.0	109.0
BODY MASS INDEX (kg/m2):	n	86	85	150	149
	mean (std)	28.9 ( 5.1 )	29.4 ( 6.3 )	29.2 ( 4.4 )	27.8 ( 4.8 )

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CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
	minimum	15.5	19.0	20.3	17.9
	25th-percentile	25.4	25.1	26.5	24.4
	median	28.7	27.9	28.5	27.6
	75th-percentile	31.1	32.1	31.5	30.5
	maximum	43.3	48.6	49.9	40.6
NATURAL WAIST CIRCUM.(cm):	n	84	85	153	152
	mean (std)	102.7 ( 12.6 )	92.5 ( 15.1 )	102.9 ( 11.7 )	89.2 ( 13.9 )
	minimum	77.5	65.8	67.6	32.2
	25th-percentile	93.7	83.0	95.2	79.4
	median	101.6	89.0	101.6	89.9
	75th-percentile	111.4	100.0	109.0	98.6
	maximum	134.9	138.3	144.9	123.2

		CASE		CONTROL	
CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
GFR(Cockcroft-Gault)(ml/min):	n	85	84	150	150
	mean (std)	79.5 ( 31.9 )	71.5 ( 24.5 )	91.8 ( 27.6 )	79.5 ( 24.6 )
	minimum	35.7	23.2	29.1	27.2
	25th-percentile	57.8	53.9	70.5	64.8
	median	74.7	66.5	88.6	76.0
	75th-percentile	93.3	84.0	107.5	94.6
	maximum	247.4	141.4	190.0	176.9
HBA1C (%):	n	89	87	162	163

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CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
	mean (std)	6.0 ( 1.4 )	5.8 ( 0.9 )	5.6 ( 0.8 )	5.5 ( 0.6 )
	minimum	4.5	4.5	4.4	3.8
	25th-percentile	5.2	5.3	5.2	5.2
	median	5.6	5.6	5.4	5.4
	75th-percentile	6.0	6.0	5.8	5.7
	maximum	13.0	9.9	10.8	8.5
TOTAL CHOLESTEROL (mg/dL):	n	87	86	160	160
	mean (std)	182.8 ( 35.9 )	207.4 ( 40.0 )	186.2 ( 33.2 )	207.2 ( 32.4 )
	minimum	117.0	111.0	120.0	121.0
	25th-percentile	158.0	176.0	164.0	184.0
	median	176.0	202.5	184.0	203.0
	75th-percentile	213.0	233.0	205.0	230.5
	maximum	286.0	329.0	293.0	298.0

		CASE		CONTROL	
CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
HDL (mg/dL):	n	87	86	161	162
	mean (std)	43.7 ( 14.5 )	54.1 ( 15.5 )	44.9 ( 14.3 )	56.8 ( 14.5 )
	minimum	13.0	29.0	22.0	22.0
	25th-percentile	35.0	42.0	35.0	45.0
	median	40.0	54.0	44.0	56.0
	75th-percentile	47.0	63.0	51.0	67.0
	maximum	97.0	107.0	112.0	101.0

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CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
SERUM CREATININE (mg/dL):	n	87	86	161	162
	mean (std)	1.2 ( 0.3 )	1.0 ( 0.2 )	1.1 ( 0.2 )	0.9 ( 0.2 )
	minimum	0.7	0.5	0.8	0.6
	25th-percentile	1.0	0.8	1.0	0.8
	median	1.1	0.9	1.1	0.9
	75th-percentile	1.3	1.1	1.2	1.0
	maximum	3.2	1.8	2.2	1.7
SERUM CYSTATIN (mg/L):	n	80	81	156	156
	mean (std)	1.2 ( 0.3 )	1.2 ( 0.4 )	1.0 ( 0.3 )	1.0 ( 0.2 )
	minimum	0.7	0.7	0.7	0.6
	25th-percentile	1.0	1.0	0.9	0.8
	median	1.1	1.1	1.0	1.0
	75th-percentile	1.3	1.3	1.1	1.1
	maximum	2.6	3.9	2.7	2.0

		CASE		CONTROL	
CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
ABNORMAL SERUM CREATININE:	no	82 ( 90.1 % )	79 ( 86.8 % )	159 ( 94.1 % )	165 ( 97.6 % )
	yes	9 ( 9.9 % )	12 ( 13.2 % )	10 ( 5.9 % )	4 ( 2.4 % )
TAKING LIPID LOWERING MEDICATION:	no	51 ( 56.0 % )	62 ( 68.1 % )	100 ( 59.2 % )	125 ( 74.0 % )
	yes	40 ( 44.0 % )	27 ( 29.7 % )	61 ( 36.1 % )	40 ( 23.7 % )
TAKING ACE INHIBITORS:	no	64 ( 70.3 % )	64 ( 70.3 % )	106 ( 62.7 % )	145 ( 85.8 % )
	yes	22 ( 24.2 % )	20 ( 22.0 % )	43 ( 25.4 % )	18 ( 10.7 % )

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CHARACTERISTIC	STATISTICS/ CATEGORIES	FATHER	MOTHER	FATHER	MOTHER
TAKING ANTI-HYPERTENSIVE DRUGS:	no	35 ( 38.5 %)	40 ( 44.0 %)	80 ( 47.3 %)	108 ( 63.9 %)
	yes	51 ( 56.0 %)	45 ( 49.5 %)	66 ( 39.1 %)	50 ( 29.6 %)

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