

Paper	PMID	Population	PD						Control						Data status	AAO	Mutation	Severe/mild	AAO	SD	
			Total	mild	severe	homo/compound	unknown	details	Total	mild	severe	homo/compound	unknown	details	comments						
Aharon 2004 NEJM	15525722	Ashkenazi-Jews	99	24	4		3	N370S/N370S - 3, N370S/wt - 23, R496H - 1, 84GG - 4	1543	92	3			N370S/wt - 92, 84GG - 3		no data					
Sato 2005 Mov disord	15517592	Caucasian Canadian	88	1	4			N370S/wt - 1, L444P - 1, RecNcil - 3	122	1				N370S/wt - 1			N370S	mild	52		
Eblan 2006 Mov disord	16261622	Venezuela	33	1	3			N370S/wt - 1, RecNcil - 2, L444P - 1	31			D443N - 1	1			N370S	mild	29			
Toft 2006 Neurology	16476943	Norway	311	4	3			N370S/wt - 4, L444P - 3	474	7	1			N370S/wt - 7, L444P - 1			N370S	mild	63		
Ziegler 2007 Mol Genet Metab	17462935	Chinese	92		2		2	L444P - 1, D409H - 1, L174P - 1, Q497R - 1	92			V460M - 1	1			L174P	unknown	58			
																Q497R	unknown	63			
																L444P	severe	64			
																D409H	severe	67			

Tan 2007 Arch Neurol	17620502	Chinese	331	8	L444P - 8	347		L444P	severe	40
								L444P	severe	43
								L444P	severe	44
								L444P	severe	60
								L444P	severe	29
								L444P	severe	58
								L444P	severe	45
								L444P	severe	70
Wu 2007 J Neurol Neuroserg Psych	17702778	Taiwanese	518	16	L444P - 13, RecNcil - 2, R120W - 1	339		L444P	severe	60
								L444P	severe	29
								L444P	severe	57
								L444P	severe	57
								L444P	severe	46
								L444P	severe	64
								L444P	severe	67
								L444P	severe	55
								L444P	severe	46
								L444P	severe	64
								L444P	severe	30
								L444P	severe	50
								L444P	severe	40
								RecNcil	severe	34
								RecNcil	severe	49
								R120W	severe	62
Spitz 2007 Parkinsonism relat disord	17703984	Brazilian	65	2	L444P - 1, L444P + E326K - 1	267		L444P	severe	46
								L444P + E326K	severe	42

Clark 2007 Neurology	17875915	Jewish	178	21	5	3	1	84GG - 5, N370S - 21 (including 2 homozygotes), R496H - 1, T369M - 1, E326K - 1, P175P - 1 (homozygote),  N370S - 2, T369M - 2, RecNcil - 1, D409H - 1, L444P - 2	85	4	2	N370S - 3, T369M - 2, E326K - 1	no data
		Non-Jewish	100	2	4		2		94	T369M - 2 1, ?		no data	
De Marco 2008 Mov disord	18074383	South Italy	395	3	8			N370S - 3, L444P - 8	483	1	L444P - 1		no data
Mata 2008 Arch Neurol	18332251	North America	721	11	10			N370S - 11, L444P - 10	554	2	N370S - 2		
											N370S	mild	47
											N370S	mild	65
											N370S	mild	54
											N370S	mild	52
											N370S	mild	58
											N370S	mild	73
											N370S	mild	43
											N370S	mild	48
											N370S	mild	50
											N370S	mild	60
											N370S	mild	82
											L444P	Severe	48
											L444P	Severe	60
											L444P	Severe	72
											L444P	Severe	57
											L444P	Severe	51
											L444P	Severe	64
											L444P	Severe	42
											L444P	Severe	61
											L444P	Severe	64
											L444P	Severe	36
Bras 2009 Neurobiol Aging	18160183	Portugal	230	10	4			N370S - 5, N396T - 5, L444P - 3, D409H - 1	430	3	N370S - 3		no data



Kalinderi 2009 Neurosci Let	19383421	Greek	172	2	7	L444P - 2, D409H - 1, E326K - 1, H255Q - 4, R329H - 1, S271G - 1, T482K - 1	132	1	E326K - 1, T482K - 1, V460L - 2	no data												
Mitsui 2009 Arch Neurol	19433656	Japanese	534	6	39	R120W - 15, R131C - 1, N188S - 4, R120W rec - 1, G193W - 1, F213I -1, R329C - 2, L444P - 8, RecNcil - 14, A456P rec - 1, R496C - 2	544	2	RecNcil - 2	R120W (15 patients)  L444P + RecNcil (22 patients)	Severe	51.8	8.2									
Mao 2009 Neurosci Let	20004703	Chinese	616	20		L444P - 1	411	1	L444P - 1	L444P (20 patients)	Severe	54.9	11.97									
Sun 2010 Mov disord	20131388	Chinese	402	11		L444P - 11	413			L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P L444P	Severe	53	59	59	59	59	68	55	53	60	35	41
Lesage 2011 Neurology	21242499	North African	194	2	5	K(-27)R - 2, R131C - 2, N370S - 2, L444Prec - 1, RecNcil - 2	177		1 D443N	K(-27)R K(-27)R R131C R131C N370S N370S	unknown unknown Severe Severe mild mild	36	64	38	41	50	56					





							D409H	Severe	50					
							D409H	Severe	56					
							L444P	Severe	56					
							L444P	Severe	56					
							L444P	Severe	48					
							L444P	Severe	57					
							L444P	Severe	48					
							L444P	Severe	46					
							RecNcil	Severe	51					
							S488T	unknown	56					
Emelyanov 2012 Mov Disord	21915911	Russian	330	3	6	N370S - 3, L444P - 6	240	1	L444P - 1	no data				
Guimarães 2012 Parkinsonism relat disord	22192918	Brazilian	347	5	8	N370S - 5, L444P - 8	341			N370S (5 patients) L444P (8 patients)				
Kumar 2012 Eur J Neurol	22812582	Serbian	360	7	10	2	N370S - 7, D409H - 6, L444P - 2, R463C -1, RecNCil - 1	348	3	D409H - 2, L444P - 1, A456P - 1, 1,	N370S	mild	54.6	13.3
Choi 2012 Neurosci let	22387070	Korean	277	3	7	2	R163Q - 1, N188S - 1, P201H - 1, P257Q - 3, S271G - 2, R277C - 1, F347L - 1, L444P - 2	291			All mild carriers (n=7) All severe carriers (n=10)	mild	56.17	7.63
										Severe	45.1	8.32		
										R163Q	unknown	42		
										N188S	Severe	35		
										P201H	Severe	37		
										R257Q	Severe	46		
										R257Q	Severe	73		
										R257Q	Severe	58		
										S271G	mild	49		
										S271G	mild	54		
										R277C	mild	62		
										F347L	unknown	39		
										L444P	Severe	40		
										L444P	Severe	45		



N370S	mild	71
N370S	mild	57
N370S	mild	71
N370S	mild	55
N370S	mild	53
N370S	mild	60
N370S	mild	65
N370S	mild	72
N370S	mild	56
N370S	mild	59
N370S	mild	30
N370S	mild	47
N370S	mild	62
N370S	mild	51
N370S	mild	54
N370S	mild	46
N370S	mild	66
N370S	mild	47
N370S	mild	69
N370S	mild	70
N370S	mild	76
N370S	mild	66
N370S	mild	50
N370S	mild	64
N370S	mild	74
N370S	mild	64
N370S	mild	61
N370S	mild	66
N370S	mild	52
N370S	mild	60
N370S	mild	79
N370S	mild	52
N370S	mild	54
N370S	mild	64
N370S	mild	44
N370S	mild	58
N370S	mild	56
N370S	mild	54
N370S	mild	55
N370S	mild	63
N370S	mild	51
N370S	mild	60
N370S	mild	43
N370S	mild	73
N370S	mild	67

N370S	mild	63
N370S	mild	40
N370S	mild	56
N370S	mild	66
N370S	mild	74
N370S	mild	75
N370S	mild	62
N370S	mild	52
N370S	mild	59
N370S	mild	58
N370S	mild	59
N370S	mild	70
N370S	mild	76
N370S	mild	57
N370S	mild	58
N370S	mild	39
N370S	mild	66
N370S	mild	56
N370S	mild	44
N370S	mild	71
N370S	mild	73
N370S	mild	52
N370S	mild	39
N370S	mild	65
N370S	mild	53
N370S	mild	63
N370S	mild	67
N370S	mild	78
R496H	mild	67
R496H	mild	48
R496H	mild	46
R496H	mild	50
R496H	mild	64
R496H	mild	55
R496H	mild	73
R496H	mild	54
R496H	mild	64
R496H	mild	73
R496H	mild	55
R496H	mild	53
R496H	mild	62
R496H	mild	50
84GG	severe	56
84GG	severe	64
84GG	severe	54

84GG	severe	55
84GG	severe	53
84GG	severe	43
84GG	severe	72
84GG	severe	71
84GG	severe	70
84GG	severe	44
84GG	severe	48
84GG	severe	49
84GG	severe	68
84GG	severe	46
84GG	severe	61
84GG	severe	41
84GG	severe	64
84GG	severe	73
84GG	severe	54
84GG	severe	60
84GG	severe	61
IVS2+1	severe	47
IVS2+1	severe	46
IVS2+1	severe	69
IVS2+1	severe	61
IVS2+1	severe	52
L444P	severe	50
L444P	severe	60
L444P	severe	72
RecTL,N370S/+	severe	55
RecTL,N370S/+	severe	55
RecTL,N370S/+	severe	44
RecTL,N370S/+	severe	60
RecTL,N370S/+	severe	52
RecTL,N370S/+	severe	58
RecTL,N370S/+	severe	62
RecTL,N370S/+	severe	57
V394L	severe	45
V394L	severe	46
V394L	severe	67
V394L	severe	74
V394L	severe	49

								V394L	severe	35		
								V394L	severe	51		
Wang 2012 Behav Brain Funct	23227814	Central Chinese	208	7	L444P - 7	298	1	L444P - 1	Only scanned the L444P, N370S and R120W mutations	no data		
Zhang 2012 Chinese Journal of Physiology	23286447	Chinese	195	6	L444P - 6	443		Only scanned the L444P, N370S and R120W mutations	L444P	severe	56	
								L444P	severe	63		
								L444P	severe	54		
								L444P	severe	64		
								L444P	severe	63		
								L444P	severe	72		
Gonzalez- Del Rincon Mde 2013 Clin Genet	23448517	Mexican	128	7	L444P - 7	252		Only scanned the L444P and N370S mutations	AAO<45	L444P	severe	36
								L444P	severe	28		
								L444P	severe	44		
								L444P	severe	43		
								L444P	severe	29		
								L444P	severe	42		
								L444P	severe	42		