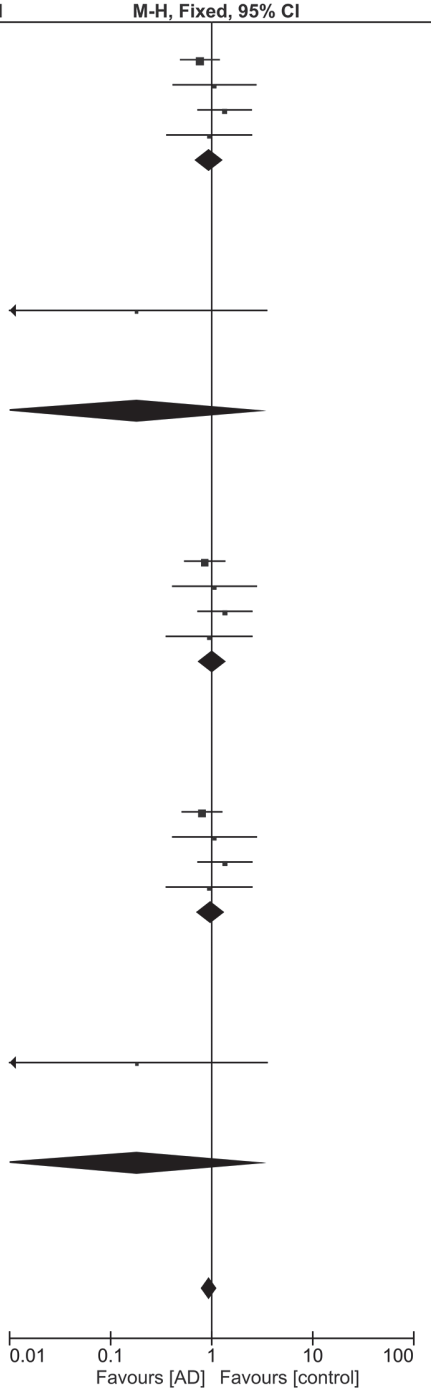
Study or Subgroup	AD Events	AD Total	Control Events	Control Total	Weight	Odds Ratio M-H, Fixed, 95% CI
1.1.1 A vs. G						
Bi, 2014	33	1276	55	1638	19.6%	0.76 [0.49, 1.18]
Chang, 2010	10	418	8	356	3.5%	1.07 [0.42, 2.73]
Li, 2013	21	780	22	1090	7.4%	1.34 [0.73, 2.46]
Tan, 2009	8	376	9	400	3.6%	0.94 [0.36, 2.47]
Subtotal (95% CI)		**2850**		**3484**	**34.1%**	**0.94 [0.69, 1.28]**
Total events	72		94			
Heterogeneity: Chi² = 2.26, df = 3 (P = 0.52); I² = 0%						
Test for overall effect: Z = 0.38 (P = 0.70)						
1.1.2 AA vs. GG						
Bi, 2014	0	605	3	767	1.3%	0.18 [0.01, 3.50]
Chang, 2010	0	199	0	170		Not estimable
Li, 2013	0	369	0	523		Not estimable
Tan, 2009	0	180	0	191		Not estimable
Subtotal (95% CI)		**1353**		**1651**	**1.3%**	**0.18 [0.01, 3.50]**
Total events	0		3			
Heterogeneity: Not applicable						
Test for overall effect: Z = 1.13 (P = 0.26)						
1.1.3 AG vs. GG						
Bi, 2014	33	638	49	816	17.0%	0.85 [0.54, 1.34]
Chang, 2010	10	209	8	178	3.4%	1.07 [0.41, 2.77]
Li, 2013	21	390	22	545	7.2%	1.35 [0.73, 2.50]
Tan, 2009	8	188	9	200	3.5%	0.94 [0.36, 2.50]
Subtotal (95% CI)		**1425**		**1739**	**31.2%**	**1.00 [0.73, 1.38]**
Total events	72		88			
Heterogeneity: Chi² = 1.43, df = 3 (P = 0.70); I² = 0%						
Test for overall effect: Z = 0.02 (P = 0.98)						
1.1.4 AA + AG vs. GG						
Bi, 2014	33	638	52	816	18.0%	0.80 [0.51, 1.26]
Chang, 2010	10	209	8	178	3.4%	1.07 [0.41, 2.77]
Li, 2013	21	390	22	545	7.2%	1.35 [0.73, 2.50]
Tan, 2009	8	188	9	200	3.5%	0.94 [0.36, 2.50]
Subtotal (95% CI)		**1425**		**1739**	**32.2%**	**0.97 [0.71, 1.33]**
Total events	72		91			
Heterogeneity: Chi² = 1.87, df = 3 (P = 0.60); I² = 0%						
Test for overall effect: Z = 0.19 (P = 0.85)						
1.1.5 AA vs. AG + GG						
Bi, 2014	0	638	3	816	1.3%	0.18 [0.01, 3.53]
Chang, 2010	0	209	0	178		Not estimable
Li, 2013	0	390	0	545		Not estimable
Tan, 2009	0	188	0	200		Not estimable
Subtotal (95% CI)		**1425**		**1739**	**1.3%**	**0.18 [0.01, 3.53]**
Total events	0		3			
Heterogeneity: Not applicable						
Test for overall effect: Z = 1.13 (P = 0.26)						
Total (95% CI)		**8478**		**10352**	**100.0%**	**0.95 [0.79, 1.14]**
Total events	216		279			
Heterogeneity: Chi² = 8.10, df = 13 (P = 0.84); I² = 0%						
Test for overall effect: Z = 0.56 (P = 0.58)						
Test for subgroup differences: Chi² = 2.52, df = 4 (P = 0.64), I² = 0%						



Suppl. Fig. 2. Forest plot of the AD risk related to leucine-rich repeat kinase 2 (LRRK2) rs34778348 polymorphism based on five genetic models.