

Summary crude odds ratios (ORs) and 95% Confidence Intervals (95% CI) for two additive models for variants of the inflammation/ immune response pathway genes (*IL6, IL8, IL10, PPAR-gamma, PTGS2/COX2, TNF-alpha, NOD2*)

Gene	Variant	rs number	Cases vs. controls (number of samples)	ADDITIVE MODEL: var/wt VS. wt/wt						ADDITIVE MODEL: var/var VS. wt/wt					
				N	Effect size		Heterogeneity		Power	N	Effect size		Heterogeneity		Power
					OR (95% CI)	P value	I ² (95% CI)	P value			OR (95% CI)	P value	I ² (95% CI)	P value	
Inflammation/immune response															
IL6	IL6	rs1800795	6676 vs. 7942 (10*§)	10	1.03 (0.91, 1.17)	0.65	56 (11, 78)	0.02	0.13	10	0.94 (0.79, 1.12)	0.48	56 (11, 78)	0.02	0.24
IL8	IL8	rs4073	3228 vs. 3772 (7*)	7	1.03 (0.92, 1.15)	0.61	44 (0, 77)	0.1	0.08	7	1.05 (0.91, 1.20)	0.53	0 (0, 71)	0.90	0.11
IL10	IL10	rs1800896	2964 vs. 3621 (5*)	5	0.96 (0.85, 1.08)	0.49	0 (0, 79)	0.53	0.11	5	0.93 (0.81, 1.07)	0.30	35 (0, 75)	0.19	0.18
PPAR-gamma	PPAR-gamma	rs3856806	5574 vs. 7035 (7*)	5	1.04 (0.95, 1.13)	0.44	0 (0, 79)	0.51	0.14	5	0.95 (0.50, 1.78)	0.86	69 (22, 88)	0.01	0.06
PPAR-gamma	PPAR-gamma	rs1801282	15091 vs. 18690 (17*§)	13	0.98 (0.86, 1.11)	0.72	65 (36, 80)	0.001	0.09	12	0.91 (0.73, 1.12)	0.37	0 (0, 58)	0.70	0.14
PTGS2/COX2	PTGS2/COX2	rs689466	4756 vs. 6030 (7*)	7	1.04 (0.95, 1.13)	0.42	41 (0, 75)	0.12	0.16	7	1.08 (0.77, 1.51)	0.66	64 (19, 84)	0.01	0.19
PTGS2/COX2	PTGS2/COX2	rs4648298	4229 vs. 4279 (5*)	3	1.00 (0.83, 1.22)	0.96	49 (0, 85)	0.14	0.05	3	n/a	n/a	n/a	n/a	n/a
PTGS2/COX2	PTGS2/COX2	rs5275	4745 vs. 5756 (7*)	7	1.01 (0.93, 1.09)	0.87	0 (0, 71)	0.81	0.06	7	1.03 (0.91, 1.17)	0.65	0 (0, 71)	0.85	0.08
PTGS2/COX2	PTGS2/COX2	rs5277	4269 vs. 4735 (5*)	5	0.97 (0.88, 1.06)	0.45	23 (0, 68)	0.27	0.10	5	0.85 (0.65, 1.11)	0.24	5 (0, 80)	0.38	0.23
PTGS2/COX2	PTGS2/COX2	rs20417	5459 vs. 7272 (11*)	10	1.03 (0.95, 1.13)	0.45	45 (0, 74)	0.06	0.11	8	1.21 (0.93, 1.57)	0.15	0 (0, 68)	0.93	0.3
PTGS2/COX2	PTGS2/COX2	rs5273	2843 vs. 3216 (5*)	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a
TNF-alpha	TNF-alpha	rs1800629	3843 vs. 4098 (9*)	9	1.11 (0.88, 1.40_)	0.37	72 (45, 86)	<0.0005	0.65	9	1.13 (0.92, 1.39)	0.24	47 (0, 75)	0.06	0.21
NOD2	3020incC	rs5743293	4222 vs. 2988 (8)	8	1.39 (1.15, 1.69)	0.001	0 (0, 68)	0.45	0.94	5	2.81 (0.87, 9.05)	0.08	0 (0, 79)	0.69	0.26
NOD2	G908R	rs2066845	4541 vs. 3820 (6*)	6	1.41 (1.04, 1.91)	0.03	0 (0, 75)	0.52	0.63	0	n/a	n/a	n/a	n/a	n/a
NOD2	R702W	rs2066844	3445 vs. 2731 (6*)	6	1.22 (1.00, 1.50)	0.06	12 (0, 78)	0.34	0.49	4	1.23 (0.41, 3.70)	0.71	0 (0, 85)	0.43	0.06
* Includes unpublished data from SOCCS															
§ Includes unpublished data from Ontario															

Summary crude odds ratios (ORs) and 95% Confidence Intervals (95% CI) for a recessive and a dominant model for variants of the inflammation/ immune response pathway genes (*IL6*, *IL8*, *IL10*, *PPAR-gamma*, *PTGS2/COX2*, *TNF-alpha*, *NOD2*)

Gene	Variant	rs number	Cases vs. controls (number of samples)	RECESSIVE MODEL: var/var VS. wt/wt & wt/var						DOMINANT MODEL: wt/var & var/var VS. wt/wt					
				N	Effect size		Heterogeneity		Power	N	Effect size		Heterogeneity		Power
					OR (95% CI)	P value	I ² (95% CI)	P value			OR (95% CI)	P value	I ² (95% CI)	P value	
Inflammation/immune response															
IL6	174G>C	rs1800795	6676 vs. 7942 (10*§)	10	0.91 (0.83, 0.99)	0.04	27 (0, 65)	0.19	0.53	10	1.00 (0.88, 1.15)	0.96	66 (34, 83)	0.002	0.05
IL8	251T/A	rs4073	3228 vs. 3772 (7*)	7	1.02 (0.91, 1.15)	0.68	0 (0, 71)	0.77	0.06	7	1.03 (0.93, 1.15)	0.54	24 (0, 66)	0.25	0.09
IL10	1082G/A	rs1800896	2964 vs. 3621 (5*)	5	0.95 (0.85, 1.07)	0.42	0 (0, 79)	0.44	0.14	5	0.95 (0.85, 1.06)	0.36	20 (0, 83)	0.29	0.15
PPAR-gamma	C1431T	rs3856806	5574 vs. 7035 (7*)	5	0.93 (0.50, 1.76)	0.83	70 (22, 88)	0.01	0.08	7	1.03 (0.95, 1.11)	0.55	0 (0, 71)	0.66	0.11
PPAR-gamma	Pro12Ala	rs1801282	15091 vs. 18690 (17*§)	12	0.91 (0.74, 1.13)	0.39	0 (0, 58)	0.75	0.17	16	0.96 (0.87, 1.06)	0.39	62 (34, 78)	0.001	0.34
PTGS2/COX2	A1195G	rs689466	4756 vs. 6030 (7*)	7	1.07 (0.81, 1.41)	0.64	53 (0, 80)	0.05	0.15	7	1.05 (0.97, 1.14)	0.24	64 (18, 84)	0.01	0.24
PTGS2/COX2	A1803G	rs4648298	4229 vs. 4279 (5*)	3	n/a	n/a	n/a	n/a	n/a	5	0.92 (0.62, 1.37)	0.68	73 (33, 89)	0.005	0.14
PTGS2/COX2	C427T	rs5275	4745 vs. 5756 (7*)	7	1.02 (0.91, 1.15)	0.72	0 (0, 71)	0.74	0.06	7	1.01 (0.94, 1.09)	0.77	0 (0, 71)	0.9	0.06
PTGS2/COX2	G306C	rs5277	4269 vs. 4735 (5*)	5	0.85 (0.66, 1.12)	0.25	9 (0, 81)	0.36	0.21	5	0.96 (0.87, 1.04)	0.31	5 (0, 80)	0.38	0.14
PTGS2/COX2	G765C	rs20417	5459 vs. 7272 (11*)	8	1.21 (0.94, 1.60)	0.14	0 (0, 68)	0.96	0.27	11	1.06 (0.98, 1.15)	0.17	42 (0, 71)	0.07	0.28
PTGS2/COX2	T1532C	rs5273	2843 vs. 3216 (5*)	2	n/a	n/a	n/a	n/a	n/a	4	0.68 (0.45, 1.04)	0.08	0 (0, 85)	0.81	0.09
TNF-alpha	308G>A	rs1800629	3843 vs. 4098 (9*)	9	1.11 (0.90, 1.36)	0.32	31 (0, 68)	0.17	0.14	9	1.15 (0.89, 1.47)	0.28	78 (58, 88)	<0.0005	0.85
NOD2	3020incC	rs5743293	4222 vs. 2988 (8)	5	2.70 (0.84, 8.71)	0.10	0 (0, 79)	0.71	0.31	8	1.43 (1.18, 1.73)	<0.0005	0 (0, 68)	0.44	0.97
NOD2	G908R	rs2066845	4541 vs. 3820 (6*)	0	n/a	n/a	n/a	n/a	n/a	6	1.41 (1.04, 1.91)	0.03	0 (0, 75)	0.52	0.65
NOD2	R702W	rs2066844	3445 vs. 2731 (6*)	4	1.21 (0.40, 3.63)	0.74	0 (0, 85)	0.44	0.05	6	1.22 (1.00, 1.50)	0.05	25 (0, 69)	0.24	0.48
* Includes unpublished data from SOCCS															
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