

**Supplemental Table 1. Summary of the allele and genotype frequency comparisons in the Brazilian cohort.**

Genetic Markers	Alleles (%)		<i>p</i> -value	OR (95%C.I.)	Genotypes (%)			<i>p</i> -value
<b>TUFT1</b>								
<b>rs2337360</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	52(36.6)	90(63.4)	0.11	1.48 (0.89-2.47)	9(12.7)	34(47.9)	28(39.4)	0.23
No MIH	46(28.5)	118(71.5)			5(6.1)	36(43.9)	41(50.0)	
<b>rs4970957</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	108(76.1)	34(23.9)	0.87	0.95 (0.6-1.8)	44(62.0)	20(28.2)	7(9.9)	0.5
No MIH	134(75.3)	44(24.7)			51(57.3)	32(36.0)	6(6.7)	
<b>rs3790506</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	41(28.8)	101(71.2)	0.86	0.95 (0.57-1.60)	5(7.0)	31(43.7)	35(49.3)	0.54
No MIH	53(29.7)	125(70.3)			10(11.2)	33(37.1)	46(51.7)	
<b>AMBN</b>								
<b>rs4694075</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	71(42.2)	73(57.8)	0.06	0.65 (0.6-1.51)	16(22.5)	39(54.9)	17(22.5)	0.78
No MIH	90(52.8)	88(47.2)			23(25.8)	44(49.4)	22(24.7)	
<b>rs496502</b>	<b>T</b>	<b>G</b>			<b>GG</b>	<b>GT</b>	<b>TT</b>	
MIH	31(23.1)	99(76.9)	0.65	1.13 (0.65-2.09)	38(58.5)	23(35.4)	4(6.2)	0.8
No MIH	37(21.0)	139(79.0)			56(63.6)	27(30.7)	5(5.7)	
<b>ENAM</b>								
<b>rs12640848</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	60(42.3)	82(57.7)	0.92	1.02 (0.41-1.04)	9(12.7)	42(59.2)	20(28.2)	0.05
No MIH	93(50.6)	83(49.4)			25(28.4)	43(48.9)	20(22.7)	
<b>rs3796704</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	11(8.0)	121(92.0)	0.02	0.42 (0.2-0.47)	0(0)	11(16.7)	55(83.3)	0.06
No MIH	29(17.0)	141(83.0)			5(5.9)	19(22.4)	61(71.8)	
<b>TFIP11</b>								
<b>rs5997096</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	54(40.3)	80(59.7)	0.6	0.88 (0.55-1.43)	9(13.4)	36(53.7)	22(32.8)	0.34
No MIH	77(43.2)	101(56.8)			19(21.3)	39(43.8)	31(34.8)	
<b>rs134136</b>	<b>T</b>	<b>C</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	60(42.2)	82(57.8)	0.14	1.40 (0.87-2.27)	26(36.6)	30(42.3)	15(21.1)	0.38
No MIH	61(34.2)	117(65.8)			42(47.2)	33(37.1)	14(15.7)	
<b>AMELX</b>								
<b>rs946252</b>	<b>T</b>	<b>C</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	23(12.6)	117(87.4)	0.46	1.38 (0.71-2.74)	52(74.3)	13(18.6)	5(7.1)	0.6
No MIH	22(9.4)	156(90.6)			72(80.9)	12(13.5)	5(5.6)	
<b>rs17878486</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	29(19.2)	113(80.8)	0.11	1.86 (0.57-1.83)	10(14.1)	9(12.7)	52(73.2)	0.44
No MIH	35(11.3)	139(83.7)			9(10.3)	17(19.5)	61(70.1)	

Note: OR (95% C.I.)= Odds ratios (95% confidence intervals)

**Supplemental Table 2. Summary of the allele and genotype frequencies comparisons related to severity of MIH in the Brazilian cohort.**

Subjects	Alleles (%)		p-value	OR (95%CI)	Genotypes (%)			p-value
<b>TUFT1</b>								
<b>rs2337360</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	46(28.1)	118(71.9)	Reference		5(6.1)	36(43.9)	41(50.0)	Reference
Mild	30(35.7)	54(64.3)	0.21	1.43(0.78-2.59)	6(14.3)	18(42.9)	18(42.9)	0.3
Severe	22(37.9)	36(62.1)	0.16	1.57(0.8-3.08)	3(10.3)	16(55.2)	10(34.5)	0.33
<b>rs4970957</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	134(75.3)	44(24.7)	Reference		51(57.3)	32(36.0)	6(6.7)	Reference
Mild	66(78.6)	18(21.4)	0.56	1.2(0.62-2.35)	28(66.7)	10(23.8)	4(9.5)	0.36
Severe	42(72.4)	16(27.6)	0.66	0.86(0.42-1.78)	16(55.2)	10(34.5)	3(10.3)	0.82
<b>rs3790506</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	53(29.8)	125(70.2)	Reference		10(11.2)	33(37.1)	46(51.7)	Reference
Mild	25(29.8)	59(70.2)	0.99	1.0(0.54-1.83)	2(4.8)	21(50.0)	19(45.2)	0.25
Severe	16(27.6)	42(72.4)	0.75	0.9(0.44-1.82)	3(10.3)	10(34.5)	16(55.2)	0.95
<b>AMBN</b>								
<b>rs4694075</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	90(50.6)	88(49.4)	Reference		23(25.8)	44(49.4)	22(24.7)	Reference
Mild	30(31.9)	64(68.1)	0.003	0.46(0.26-0.8)	10(23.8)	20(47.6)	12(28.6)	0.89
Severe	31(53.4)	27(46.6)	0.7	1.12(0.59-2.12)	6(20.7)	19(65.5)	4(13.8)	0.29
<b>rs496502</b>	<b>G</b>	<b>T</b>			<b>GG</b>	<b>GT</b>	<b>TT</b>	
No MIH	139(78.9)	37(21.1)	Reference		56(63.6)	27(30.7)	5(5.7)	Reference
Mild	52(68.4)	24(31.6)	0.07	0.58(0.3-1.1)	18(47.4)	16(42.1)	4(10.5)	0.21
Severe	51(87.9)	7(12.1)	0.13	1.94(0.77-5.11)	22(75.9)	7(24.1)	0(0)	0.29
<b>ENAM</b>								
<b>rs12640848</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	93(52.8)	83(47.2)	Reference		25(28.4)	43(48.9)	20(22.7)	Reference
Mild	34(40.5)	50(59.5)	0.06	0.61(0.35-1.06)	5(11.9)	24(57.1)	13(31.0)	0.1
Severe	26(44.8)	32(55.2)	0.29	0.73(0.38-1.37)	4(13.8)	18(62.1)	7(24.1)	0.27
<b>rs3796704</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	29(17.1)	141(82.9)	Reference		5(5.9)	19(22.4)	61(71.8)	Reference
Mild	8(10.0)	72(90.0)	0.14	0.54(0.21-1.32)	0(0)	8(20.0)	32(80.0)	0.26
Severe	3(5.4)	53(94.6)	0.03	0.28(0.06-1.0)	0(0)	3(10.7)	25(89.3)	0.14
<b>TFIP11</b>								
<b>rs5997096</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	77(43.3)	101(56.7)	Reference		19(21.3)	39(43.8)	31(34.8)	Reference
Mild	35(44.9)	43(55.1)	0.81	1.07(0.6-1.89)	9(23.1)	17(43.6)	13(33.3)	0.97
Severe	19(33.9)	37(66.1)	0.21	0.67(0.34-1.32)	0(0)	19(67.9)	9(32.1)	0.01
<b>rs134136</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	117(65.7)	61(34.3)	Reference		42(47.2)	33(37.1)	14(15.7)	Reference
Mild	50(59.5)	34(40.5)	0.33	0.77(0.43-1.36)	17(40.5)	16(38.1)	9(21.4)	0.02
Severe	32(55.2)	26(44.8)	0.15	0.64(0.34-1.22)	9(31.0)	14(48.3)	6(20.7)	0.31
<b>AMELX</b>								
<b>rs946252</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	156(87.6)	22(12.4)	Reference		72(80.9)	12(13.5)	5(5.6)	Reference
Mild	65(79.3)	17(20.7)	0.08	0.54(0.25-1.14)	27(65.9)	11(26.8)	3(7.3)	0.15
Severe	52(89.7)	6(10.3)	0.68	1.22(0.44-3.57)	25(86.2)	2(6.9)	2(6.9)	0.63

Subjects	Alleles (%)		p-value	OR (95% C.I.)	Genotypes (%)			p-value
<b>TUFT1</b>								
<b>rs2337360</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	120(37.0)	204(63.0)	0.03	0.65 (0.43-0.9)	26(16.0)	68(42.0)	68(42.0)	0.0001
No MIH	73(47.4)	81(52.6)			19(24.7)	35(45.5)	23(29.9)	
<b>rs4970957</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	70(22.7)	238(77.3)	3.287e- 023	0.12 (0.08-0.19)	0(0)	70(45.5)	84(54.5)	0.0001
No MIH	114(69.5)	46(30.5)			35(42.7)	44(53.7)	3(3.7)	
<b>rs3790506</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	27(16.2)	295(83.8)	1.64e-011	0.19 (0.11-0.33)	4(2.5)	19(11.8)	138(85.7)	0.0001
No MIH	52(32.5)	108(67.5)			12(15.0)	28(35.0)	40(50.)	
<b>AMBN</b>								
<b>rs4694075</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	177(51.3)	139(48.7)	0.03	0.64 (0.43-0.97)	53(33.5)	71(44.9)	34(21.5)	0.02
No MIH	109(61.9)	55(38.1)			33(40.2)	43(52.4)	6(7.3)	
<b>rs496502</b>	<b>G</b>	<b>T</b>			<b>GG</b>	<b>GT</b>	<b>TT</b>	
MIH	230(86.5)	36(13.5)	0.159	2.58 (0.16-0.9)	100(75.2)	30(22.6)	3(2.3)	0.05
No MIH	132(94.3)	8(5.7)			62(88.6)	8(11.4)	0(0)	
<b>ENAM</b>								
<b>rs12640848</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	158(43.9)	166(56.1)	0.026	1.55 (1.01-2.35)	42(25.9)	74(45.7)	46(28.4)	0.12
No MIH	55(33.5)	89(66.5)			12(16.7)	31(43.1)	29(40.3)	
<b>rs3796704</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
MIH	91(30.5)	207(69.5)	1.22e-012	17.36 (5.98-56.78)	19(12.8)	53(35.6)	77(51.7)	0.0001
No MIH	4(24.6)	158(75.4)			0(0)	4(4.9)	77(95.1)	
<b>TFIP11</b>								
<b>rs5997096</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	146(44.8)	180(55.2)	0.0003	0.49 (0.49-0.74)	30(18.4)	86(52.8)	47(28.8)	0.0001
No MIH	102(62.2)	62(37.8)			37(45.1)	28(34.1)	17(20.7)	
<b>rs134136</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	190(58.7)	134(41.3)	0.58	1.11 (0.60-1.35)	54(33.3)	82(50.6)	26(16.0)	0.85
No MIH	98(61.3)	62(38.7)			29(36.3)	40(50.0)	11(13.8)	
<b>AMELX</b>								
<b>rs946252</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	211(67.9)	115(32.1)	0.17	0.7 (0.9-2.07)	85(52.1)	41(25.2)	37(22.7)	0.43
No MIH	86(59.8)	64(40.2)			33(44.0)	20(26.7)	22(29.3)	
<b>rs17878486</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
MIH	67(17.8)	241(82.2)	0.69	1.13 (0.77-2.17)	18(11.7)	31(20.1)	105(68.2)	0.15
No MIH	28(16.0)	130(84.0)			10(12.7)	8(10.1)	61(77.2)	

Note: OR (95% C.I.)= Odds ratios; 95% confidence intervals

**Supplemental Table 4. Summary of the allele and genotype frequency comparisons related to severity of MIH in the Turkish.**

Subjects	Alleles (%)		p-value	OR (95%C.I.)	Genotypes (%)			p-value
<b>TUFT1</b>								
<b>rs2337360</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	73(47.4)	81(52.6)	Reference		19(24.7)	35(45.5)	23(29.9)	Reference
Mild	12(31.6)	26(68.4)	0.08	0.51(0.22-1.15)	0(0)	12(63.2)	7(36.8)	0.05
Severe	108(37.8)	178(62.2)	0.05	0.67(0.44-1.02)	26(18.2)	56(39.2)	61(42.7)	0.16
<b>rs4970957</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	114(69.5)	50(30.5)	Reference		35(42.7)	44(53.7)	3(3.7)	Reference
Mild	9(23.7)	29(76.3)	0.0001	0.14(0.06-0.33)	0(0)	9(47.4)	10(52.6)	0.0001
Severe	61(22.6)	209(77.4)	0.0001	0.13(0.08-0.2)	0(0)	61(45.2)	74(54.8)	0.0001
<b>rs3790506</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	52(32.5)	108(67.5)	Reference		12(15.0)	28(35.0)	40(50.0)	Reference
Mild	1(2.6)	37(97.4)	0.0002	0.06(0.0-0.4)	0(0)	1(5.3)	18(94.7)	0.002
Severe	22(7.9)	258(92.1)	0.00001	0.18(0.1-0.32)	4(2.8)	18(12.7)	120(84.5)	0.0001
<b>AMBN</b>								
<b>rs4694075</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	109(66.5)	55(33.5)	Reference		33(40.2)	43(52.4)	6(7.3)	Reference
Mild	22(61.1)	14(38.9)	0.54	0.79(0.35-1.78)	8(44.4)	6(33.3)	4(22.2)	0.11
Severe	155(55.4)	125(44.6)	0.02	0.63(0.41-0.95)	45(32.1)	65(46.4)	30(21.4)	0.02
<b>rs496502</b>	<b>G</b>	<b>T</b>			<b>GG</b>	<b>GT</b>	<b>TT</b>	
No MIH	132(94.3)	8(5.7)	Reference		62(88.6)	8(11.4)	0(0)	Reference
Mild	32(84.2)	6(15.8)	0.04	0.32(0.09-1.14)	14(73.7)	4(21.1)	1(5.3)	0.08
Severe	198(86.8)	30(13.2)	0.02	0.4(0.16-0.95)	86(75.4)	26(22.8)	2(1.8)	0.07
<b>ENAM</b>								
<b>rs12640848</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	55(38.2)	89(61.8)	Reference		12(16.7)	31(43.1)	29(40.3)	Reference
Mild	17(44.7)	21(55.3)	0.46	1.31(0.60-2.86)	3(15.8)	11(57.9)	5(26.3)	0.47
Severe	141(49.3)	145(50.7)	0.03	1.57(1.03-2.42)	39(27.3)	63(44.1)	41(28.7)	0.12
<b>rs3796704</b>	<b>A</b>	<b>G</b>			<b>AA</b>	<b>AG</b>	<b>GG</b>	
No MIH	4(2.5)	158(97.5)	Reference		0(0)	4(4.9)	77(95.1)	Reference
Mild	9(28.1)	23(71.9)	0.0001	15.46(3.91-65.86)	0(0)	9(56.3)	7(43.8)	0.0001
Severe	82(30.8)	184(69.2)	0.0001	17.60(6.04-57.77)	19(14.3)	44(33.1)	70(52.6)	0.0001
<b>TFIP11</b>								
<b>rs5997096</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	102(62.2)	62(37.8)	Reference		37(45.1)	28(34.1)	17(20.7)	Reference
Mild	17(44.7)	21(55.3)	0.05	0.49(0.23-1.06)	3(15.8)	11(57.9)	5(26.3)	0.05
Severe	129(44.7)	159(55.3)	0.0003	0.49(0.33-0.74)	27(18.8)	75(52.1)	42(29.2)	0.0001
<b>rs134136</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	98(61.2)	62(38.8)	Reference		29(36.3)	40(50.0)	11(13.8)	Reference
Mild	23(60.5)	15(39.5)	0.93	0.97(0.44-2.13)	7(36.8)	9(47.4)	3(15.8)	0.96
Severe	167(58.4)	119(41.6)	0.55	0.89(0.59-1.34)	47(32.9)	73(51.0)	23(16.1)	0.83
<b>AMELX</b>								
<b>rs946252</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	86(57.3)	64(42.7)	Reference		33(44.0)	20(26.7)	22(29.3)	Reference
Mild	21(55.3)	17(44.7)	0.82	0.92(0.42-2.0)	8(42.1)	5(26.3)	6(31.6)	0.98
Severe	190(65.9)	98(34.1)	0.07	1.44(0.94-2.21)	77(53.5)	36(25.0)	31(21.5)	0.34

<b>rs17878486</b>	<b>C</b>	<b>T</b>			<b>CC</b>	<b>CT</b>	<b>TT</b>	
No MIH	98(61.2)	62(38.8)	Reference		29(36.3)	40(50.0)	11(13.8)	Reference
Mild	23(60.5)	15(39.5)	0.94	0.97(0.44-2.13)	7(36.8)	9(47.4)	3(15.8)	0.96
Severe	167(58.4)	119(41.6)	0.55	0.89(0.59-1.34)	47(32.9)	73(51.0)	23(16.1)	0.83

Note: OR (95% C.I.)= Odds ratios; 95% confidence intervals