| **SNP / Gene (nucleotide substitution) Genotypes** | | | | **p-value** |
| --- | --- | --- | --- | --- |
| **rs1800629 / TNF (G>A)** | **G/G** | **G/A + A/A** | |  |
| Gender |  |  |  | 0.0288 |
| n  Female Male | 104  94 (90.4%)  10 (9.6%) | 21  15 (71.4%)  6 (28.6%) | |  |
|  |  |  |  |  |
| **rs206015 / NOTCH4 (G>A)** | **G/G** | **G/A + A/A** | |  |
| Gender  n  Female  Male | 102  86 (84.3%)  16 (15.7%) | 23  23 (100.0)  0 | | 0.0414 |

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| **rs3093024 / CCR6 (A>G)** | **A/A** | **A/G** | **G/G** |  |
| Age (years) |  |  |  | 0.0019 ^ |
| n  mean  SD | 30  48.6  12.55 | 60  54.4  12.37 | 35  44.9  12.97 |  |
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| **rs2104286 / IL2RA (T>C)** | **T/T** | **T/C** | **C/C** |  |
| Age (years) |  |  |  | 0.0119 ^ |
| n  mean  SD | 77  52.5  12.66 | 42  45.6  13.55 | 6  56.5  6.02 |  |
| **rs419598 / IL1RN (T>C)** | **T/T** | **T/C** | **C/C** |  |

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| Age (years) |  |  |  | 0.0131 ^ |
| n  mean  SD | 67  52.9  13.12 | 47  46.0  11.58 | 11  53.8  15.48 |  |

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| **rs549908 / IL18 (T>G)** | **T/T** | **T/G** | **G/G** |  |
| Age (years) |  |  |  | 0.0269 ^ |
| n  mean  SD | 63  48.3  12.65 | 56  51.4  12.93 | 6  62.7  14.50 |  |

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| **rs1800629 / TNF (G>A)** | **G/G** | **G/A** | **A/A** |  |
| Age (years) |  |  |  | 0.0275 ^ |
| n  mean  SD | 104  51.5  12.99 | 21  44.6  12.60 | 0 |  |

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| **rs3817963 / BTNL2 (T>C)** | **T/T** | **T/C** | **C/C** |  |
| Age (years) |  |  |  | 0.0311 ^ |
| n  mean  SD | 60  52.5  13.49 | 48  50.4  13.02 | 17  43.0  9.69 |  |

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| **rs7530511 / IL23R (T>C)** | **C/C** | **T/C + T/T** | |  |
| Age (years) |  |  | | 0.0367 |
| n  mean  SD | 90  48.8  12.52 | 35  54.3  14.03 | |  |

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| **rs1974226 / IL17A (C>T)** | **C/C** | **C/T** | **T/T** |  |
| Age (years) |  |  |  | 0.0411 ^ |
| n  mean  SD | 89  48.8  13.19 | 29  52.5  11.65 | 7  60.7  14.13 |  |

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| **rs2240336 / PADI4 (C>T)** | **C/C** | **C/T** | **T/T** |  |
| Disease duration (years) |  |  |  | 0.0038 # |
| n | 46 | 62 | 17 |  |
| mean | 3.91 | 8.05 | 5.91 |  |
| Q1, Q3 | 1.85, 8.35 | 4.16, 13.07 | 2.23, 9.97 |  |

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| **rs4810485 / CD40 (T>G)** | **T/T** | **T/G** | **G/G** |  |
| Disease duration (years) |  |  |  | 0.0110 # |
| n | 7 | 43 | 75 |  |
| mean | 11.16 | 3.66 | 6.24 |  |
| Q1, Q3 | 9.97, 13.48 | 1.45, 8.35 | 3.16, 11.35 |  |

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| **rs3817963 / BTNL2 (T>C)** | **T/T** | **T/C** | **C/C** |  |

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| Disease duration (years) |  |  |  | 0.0131 # |
| n | 60 | 48 | 17 |  |
| mean | 7.70 | 3.52 | 6.71 |  |
| Q1, Q3 | 4.21, 11.65 | 1.36, 8.30 | 3.88, 11.03 |  |

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| **rs3213422 / DHODH (A>C)** | **A/A** | **A/C** | **C/C** |  |
| Disease duration (years) |  |  |  | 0.0132 # |
| n | 27 | 63 | 35 |  |
| mean | 8.35 | 6.13 | 4.16 |  |
| Q1, Q3 | 3.66, 13.48 | 2.75, 11.47 | 1.10, 7.46 |  |

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| **rs360718 / IL18 (A>C)** | **A/A** | **A/C** | **C/C** |  |
| Disease duration (years) |  |  |  | 0.0240 # |
| n | 69 | 49 | 7 |  |
| mean | 5.17 | 8.38 | 1.44 |  |
| Q1, Q3 | 2.50, 8.84 | 4.16, 13.48 | 0.73, 13.07 |  |

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| **rs187238 / IL18 (C>G)** | **C/C** | **C/G** | **G/G** |  |
| Disease duration (years) |  |  |  | 0.0244 # |
| N  Mean  Q1, Q3 | 72  5.19  2.41, 8.91 | 48  8.55  4.02, 13.97 | 5  1.44  1.10, 4.20 |  |

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| **rs360717 / IL18 (G>A)** | **G/G** | **G/A** | **A/A** |  |

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| Disease duration (years) |  |  | 0.0449 # |
| n | 72 | 53 (G/A + A/A) |  |
| Mean  Q1, Q3 | 5.19  2.41, 8.91 | 8.34  3.16, 13.48 |  |

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| **rs2301888 / PADI4 (G>A)** | **G/G** | **G/A** | **A/A** |  |
| Disease duration (years) |  |  |  | 0.0293 # |
| n | 59 | 51 | 15 |  |
| Mean | 4.20 | 8.34 | 5.91 |  |
| Q1, Q3 | 2.32, 8.47 | 4.52, 13.07 | 2.23, 10.86 |  |

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| **rs2476601 / PTPN22 (A>G)** | A/A | A/G | G/G |  |
| Disease duration (years) |  |  |  | 0.0414 # |
| n | 13 | 32 | 80 |  |
| Mean | 3.37 | 4.68 | 7.08 |  |
| Q1, Q3 | 2.06, 6.73 | 1.44, 8.41 | 3.54, 11.50 |  |

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| **rs1801133 / MTHFR (G>A)** | **G/G** | **G/A** | **A/A** |  |

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| Baseline CRP (mg/mL) |  |  |  | 0.0299 ^ |
| n  mean  SD | 68  2.79  0.848 | 49  2.68  0.985 | 8  1.88  0.966 |  |

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| **rs3213422 / DHODH (A>C)** | **A/A** | **A/C** | **C/C** |  |

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| Baseline CRP (mg/mL) |  |  |  | 0.0410 # |
| n | 27 | 63 | 35 |  |
| Mean | 12.0 | 13.0 | 20.0 |  |
| Q1, Q3 | 7.0, 22.0 | 6.0, 24.0 | 11.0, 41.0 |  |

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| **rs7530511 / IL23R (T>C)** | **T/T** | **T/C** | **C/C** |  |
| Baseline Anti-CCP (IU/mL) |  |  |  | 0.0038 # |
| n | 3 | 32 | 88 |  |
| mean | 2840.40 | 626.40 | 131.50 |  |
| Q1, Q3 | 1176.70, 3018.40 | 155.50, 1220.05 | 55.85, 672.30 |  |
|  |  |  |  |  |
| Baseline Anti-CCP (IU/mL) n  n  Mean  Q1, Q3 | 35 (TT+TC)  663.50  194.70, 1296.90 | | 88  131.50  55.85, 672.30 | 0.0046 # |

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| **rs7539625 / IL23R (G>A)** | **G/G** | **G/A** | **A/A** |  |
| Baseline Anti-CCP (IU/mL) |  |  |  | 0.0140 # |
| n | 67 | 50 | 6 |  |
| mean | 336.60 | 250.20 | 37.30 |  |
| Q1, Q3 | 71.70, 1296.90 | 70.80, 685.00 | 1.10, 89.80 |  |
|  |  |  |  |  |
| Исходный уровень АЦАТ (МЕ/мл) |  |  | | 0.0369 # |
| n | 67 | 56 (G/A+A/A) | |  |
| Mean  Q1, Q3 | 336.60  71.70, 1296.90 | 148.05  37.30, 651.10 | |  |

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| **rs1800693 / TNFRSF1A (T>C)** | **T/T** | **T/C** | **C/C** |  |
| Baseline Anti-CCP (IU/mL) |  |  |  | 0.0096 # |
| N  Mean  Q1, Q3 | 41  631.10  116.20, 1060.10 | 59  108.80  18.60, 621.70 | 23  323.40  52.40, 1460.40 |  |

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| **rs3218253 / IL2RB (G>A)** | **G/G** | **G/A** | **A/A** |  |
| Baseline Anti-CCP (IU/mL) n |  |  |  | 0.0215 # |
| n | 78 | 40 | 5 |  |
| Mean | 239.20 | 200.05 | 1376.40 |  |
| Q1, Q3 | 59.30, 759.40 | 56.70, 834.50 | 1301.30, 1710.50 |  |

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| **rs767455 / TNFRSF1A (T>C)** | **T/T** | **T/C** | **C/C** |  |
| Baseline Anti-CCP (IU/mL) n |  |  |  | 0.0215 # |
| n | 38 | 56 | 29 |  |
| Mean | 407.55 | 110.65 | 323.40 |  |
| Q1, Q3 | 116.20, 999.00 | 11.30, 641.05 | 61.00, 1185.70 |  |

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| **rs10889671 / IL23R (A>G)** | **A/A** | **A/G** | **G/G** |  |

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| Baseline Anti-CCP (IU/mL) n |  |  |  | 0.0277 # |
| N  Mean  Q1, Q3 | 3  2840.40  1176.70, 3018.40 | 32  422.10  80.50, 960.10 | 88  151.80  60.15, 748.85 |  |

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| **rs7574865 / STAT4 (T>G)** | **T/T** | **T/G** | **G/G** |  |
| Baseline Anti-CCP (IU/mL) |  |  |  | 0.0369 # |
| n | 8 | 52 | 63 |  |
| Mean | 109.70 | 376.65 | 236.70 |  |
| Q1, Q3 | 0.90, 119.20 | 82.00, 1181.15 | 22.20, 704.00 |  |

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| **rs2228144 / IL6R (G>A)** | **G/G** | **G/A + A/A** |  |
| Baseline Anti-CCP (IU/mL) |  |  | 0.0430 # |
| n | 81 | 42 |  |
| Mean  Q1, Q3 | 381.90  80.70, 1024.50 | 112.05  19.60, 427.50 |  |

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| **rs4845374 / IL6R (T>A)** | **T/T** | **T/A + A/A** | |  |
| Baseline Anti-CCP (IU/mL) |  |  |  | 0.0470 # |
| n | 79 | 44 | |  |
| Mean  Q1, Q3 | 381.90  80.30, 1060.10 | 119.25  20.90, 479.65 | |  |

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| **rs11541076 / IRAK3 (A>T)** | **A/A** | **A/T** | **T/T** |  |
| Baseline RF (IU/mL) |  |  |  | 0.0113 # |
| n  Mean  Q1, Q3 | 97  117.0  39.0, 334.0 | 26  42.5  15.0, 119.0 | 2  24.0  11.0, 37.0 |  |
|  |  |  |  |  |
| Baseline RF (IU/mL) |  |  |  |  |
| n  Mean  Q1, Q3 | 97  117.0  39.0, 334.0 | 28 (A/T + T/T)  40.5  14.0, 99.5 | | 0.0040 # |

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| **rs1801275 / IL4R (A>G)** | **A/A** | **A/G** | **G/G** |  |

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| Baseline RF (IU/mL) |  |  |  | 0.0272 # |
| n  Mean  Q1, Q3 | 77  111.0  34.0, 321.0 | 44  60.5  27.0, 165.5 | 4  339.0  176.5, 475.5 |  |

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| **rs2104286 / IL2RA (T>C)** | **T/T** | **T/C** | **C/C** |  |

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| Baseline RF (IU/mL) |  |  |  | 0.0418 # |
| n | 77 | 48 (Т/С+С/С) | |  |
| Mean | 117.0 | 55.0 | |  |
| Q1, Q3 | 39.0, 334.0 | 21.0, 239.5 | |  |

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| **rs11203367 / PADI4 (T>C)** | **T/T** | **T/C** | **C/C** |  |
| Baseline CDAI |  |  |  | 0.0086 # |

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| n  Mean  Q1, Q3 | 27  37.20  34.00, 43.40 | 62  40.10  34.90, 49.00 | 34  34.95  29.80, 39.50 |  |

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| **rs2240340 / PADI4 (T>C)** | **T/T** | **T/C** | **C/C** |  |
| Baseline CDAI |  |  |  | 0.0115 # |
| n | 27 | 61 | 35 |  |
| Mean | 37.20 | 39.40 | 35.60 |  |
| Q1, Q3 | 34.00, 43.40 | 34.90, 49.00 | 29.80, 40.80 |  |

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| **rs11203366 / PADI4 (G>A)** | **G/G** | **G/A** | **A/A** |  |
| Исходное значение CDAI |  |  |  | 0.0171 # |
| n  Медиана  Q1, Q3 | 26  36.80  34.00, 43.40 | 62  39.10  34.90, 49.00 | 35  35.60  29.80, 41.20 |  |
| Q1, Q3 | 31.63, 42.40 | 35.20, 47.40 | 35.90, 50.10 |  |

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| **rs2243250 / IL4 (C>T)** | **C/C** | **C/T** | **T/T** |  |
| Baseline CDAI |  |  |  | 0.0142 # |
| n | 69 | 45 | 9 |  |
| Mean | 35.60 | 39.30 | 41.16 |  |
| Q1, Q3 | 31.63, 42.40 | 35.20, 47.40 | 35.90, 50.10 |  |
|  |  |  |  |  |
| Baseline CDAI |  |  |  | 0.0048 # |
| n | 69 | 54 (C/T+T/T) | |  |
| Mean | 35.60 | 40.10 | |  |
| Q1, Q3 | 31.63, 42.40 | 35.30, 47.50 | |  |

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| **rs2069849 / IL6 (C>T)** | **C/C** | **C/T** | **T/T** |  |
| Baseline CDAI |  |  |  | 0.0317 # |
| n | 120 | 3 | 0 |  |
| Mean | 37.95 | 30.60 |  |  |
| Q1, Q3 | 33.45, 45.65 | 25.50, 33.80 |  |  |
|  |  |  |  |  |
| Baseline CDAI |  |  |  | 0.0324 # |
| n | 120 | 3 (C/T + T/T) | |  |
| Mean  Q1, Q3 | 37.95  33.45, 45.65 | 30.60  25.50, 33.80 | |  |

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| **rs1801275 / IL4R (A>G)** | **A/A** | **A/G** | **G/G** |  |
| Baseline CDAI |  |  |  | 0.0408 # |
| n  Mean  Q1, Q3 | 75  36.30  32.80, 43.10 | 44  38.60  33.45, 46.80 | 4  51.25  44.45, 62.75 |  |
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| **rs10889671 / IL23R (A>G)** | **A/A** | **A/G** | **G/G** |  |

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| Baseline CDAI |  |  | 0.0460 # |
| n | 88 | 35 (A/G + A/A) |  |
| Mean  Q1, Q3 | 38.75  34.15, 47.20 | 35.30  32.80, 39.40 |  |

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| **rs1801275 / IL4R (A>G)** | **A/A** | **A/G** | **G/G** |  |

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| Baseline DAS28- CRP |  |  |  | 0.0017 ^ |
| n  Mean  SD | 75  5.94  0.594 | 44  5.84  0.642 | 4  7.02  0.733 |  |

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| **rs11203367 / PADI4 (T>C)** | **T/T** | **T/C** | **C/C** |  |

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| Baseline DAS28- CRP |  |  |  | 0.0123 ^ |
| n  Mean  СО | 27  5.84  0.593 | 62  6.10  0.670 | 34  5.72  0.560 |  |

**rs2243250 / IL4 (C>T) C/C C/T T/T**

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| Baseline DAS28- CRP |  |  |  | 0.0152 ^ |
| n  Mean  SD | 69  5.79  0.630 | 45  6.10  0.604 | 9  6.23  0.713 |  |
|  |  |  |  |  |
| Baseline DAS28- CRP |  |  |  | 0.0045 ^ |
| n | 69 | 54 (C/T+T/T) | |  |
| Mean | 5.79 | 6.12 | |  |
| СО | 0.630 | 0.618 | |  |

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| **rs11203366 / PADI4 (G>A)** | **G/G** | **G/A** | **A/A** |  |

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| Baseline DAS28- CRP |  |  |  | 0.0158 ^ |
| n  Mean  SD | 26  5.84  0.605 | 62  6.10  0.672 | 35  5.73  0.555 |  |

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| **rs2240340 / PADI4 (T>C)** | **T/T** | **T/C** | **C/C** |  |

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| Baseline DAS28- CRP |  |  |  | 0.0207 ^ |
| n  Mean  SD | 27  5.84  0.593 | 61  6.10  0.674 | 35  5.74  0.567 |  |

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| **rs10889671 / IL23R (A>G)** | **A/A** | **A/G** | **G/G** |  |

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| Baseline DAS28- CRP |  |  |  | 0.0233 ^ |
| n | 88 | 35 (A/G + A/A) | |  |
| Mean  SD | 6.01  0.693 | 5.76  0.461 | |  |

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| **rs2069849 / IL6 (C>T)** | **C/C** | **C/T** | **T/T** |  |

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| Baseline DAS28- CRP |  |  |  | 0.0463 ^ |
| n  Mean  SD | 120  5.96  0.640 | 3  5.21  0.196 | 0 |  |

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| Baseline DAS28- CRP |  |  | | 0.0463 ^ |
| n  Среднее  СО | 120  5.96  0.640 | 3 (C/T + T/T)  5.21  0.196 | |  |

**rs11203366 / PADI4 (G>A) G/G G/A A/A**

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| Baseline HAQ-DI |  |  |  | 0.0025 ^ |
| n  Mean  SD | 26  1.5096  0.6214 | 62  1.8407  0.4573 | 35  1.5536  0.3898 |  |

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| **rs11203367 / PADI4 (T>C)** | | **T/T** | **T/C** | **C/C** |  |

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| Baseline HAQ-DI |  |  |  | 0.0066 ^ |
| n  Среднее  SD | 27  1.5324  0.6207 | 62  1.8286  0.4595 | 34  1.5588  0.3944 |  |

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| **rs2240340 / PADI4 (T>C)** | **T/T** | **T/C** | **C/C** |  |

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| --- | --- | --- | --- | --- |
| Baseline HAQ-DI |  |  |  | 0.0137 ^ |
| n  Mean  SD | 27  1.5324  0.6207 | 61  1.8197  0.4579 | 35  1.5821  0.4123 |  |

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| **rs17602729 / AMPD1 (G>A)** | **G/G** | **G/A** | **A/A** |  |
| Baseline HAQ-DI |  |  |  | 0.0368 ^ |
| n  Mean  SD | 89  1.7107  0.4521 | 28  1.5357  0.6188 | 6  2.0833  0.3227 |  |

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| **rs874881 / PADI4 (G>C)** | **G/G** | **G/C** | **C/C** |  |
| Baseline HAQ-DI |  |  |  | 0.0428 ^ |
| n  Mean  SD | 33  1.5871  0.5867 | 62  1.8004  0.4883 | 28  1.5625  0.3527 |  |
|  |  |  |  |  |

СО= Standard deviation; CRP = C-reactive protein; DAS28 = Disease Activity Score 28-joint Count; CDAI = Clinical Disease Activity Index; HAQ-DI = Health Assessment Questionnaire – Disability Index; ACPA - anti-cyclic citrullinated peptide antibodies.

n: the number of patients in the corresponding category or the number of valid observations.

Q1 (Q3): 1 (3) quartile.

Percentages are calculated based on the number of valid observations. Shown p-value for testing differences between genotypes using Fisher's exact test for comparison of proportions. For a categorical assessment of the baseline level of anti-citrulline antibodies and rheumatoid factor, the p-value is shown for testing differences between genotypes using the Chi-square test to compare the proportions.

Shown is the p-value for testing differences between genotypes using Student's t-test (^) or non-parametric Wilcoxon-Mann-Whitney test (#).