Additional file 1: Table S1: Associations parameters

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|  | ***Ophthalmologist*** |  | ***Pediatric rheumatologist*** |  | ***Patients reported outcomes*** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Physician's global about disease activity in the eyes, VAS, 0-100** | **Total number of AC cells** | **AC cell grade** |  | **Visual acuity, logMAR** |  | **AC flare grade (flare versus no flare), SUN** | **AC flare grade (flare versus no flare), MIWGUC** |  | **Any structural complication** |  | **Physician's global about JIA disease activity, VAS, 0-100** | **Number of joints with active arthritis** |  | **Overall well-being; VAS; 0-100** | **C-HAQ, 0-3** | **PedsQL, 0-100** | **Number of days in hospital due to uveitis** | **Missed days in kindergarden/ school due to uveitis** | **Number of days with restrictions in daily life due to uveitis** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | **beta/OR95%CIp value** | **beta/OR95%CIp value** | **beta/OR95%CIp value** |  | **beta/OR95%CIp value** |  | **beta/OR95%CIp value** | **beta/OR95%CIp value** |  | **beta/OR95%CIp value** |  | **beta/OR95%CIp value** | **beta/OR95%CIp value** |  | **beta/OR95%CIp value** | **beta/OR95%CIp value** | **beta/OR95%CIp value** | **beta/OR95%CIp value** | **beta/OR95%CIp value** | **beta/OR95%CIp value** |
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| ***Pediatric rheumatologist*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Physician's global about JIA disease activity, VAS, 0-100 | **0.35<0.0010.26 ; 0.45** | **0.80<0.0010.37 ; 1.23** | **4.36<0.0012.10 ; 6.61** |  | **8.880.0092.18 ; 15.57** |  | 4.540.125-1.27 ; 10.34 | -3.560.356-11.11 ; 3.99 |  | 5.550.052-0.04 ; 11.15 |  | - | **2.22<0.0011.21 ; 3.22** |  | **0.58<0.0010.47 ; 0.69** | **12.34<0.0018.31 ; 16.38** | **-0.60<0.001-0.75 ; -0.45** | **1.54<0.0010.86 ; 2.21** | **1.23<0.0010.90 ; 1.57** | 0.290.072-0.03 ; 0.60 |
| Number of joints with active arthritis | -0.010.159-0.02 ; 0.00 | 0.020.529-0.04 ; 0.08 | -0.040.684-0.26 ; 0.17 |  | -0.390.234-1.02 ; 0.25 |  | -0.350.191-0.87 ; 0.17 | -0.560.131-1.29 ; 0.17 |  | -0.470.084-1.00 ; 0.06 |  | **0.02<0.0010.01 ; 0.03** | - |  | **0.020.0210.00 ; 0.04** | -0.030.928-0.70 ; 0.64 | **-0.04<0.001-0.06 ; -0.02** | **0.170.0010.07 ; 0.28** | -0.010.824-0.06 ; 0.04 | **0.070.0030.02 ; 0.12** |
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| ***Patients reported outcomes*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Overall well-being; VAS; 0-100 | **0.22<0.0010.11 ; 0.33** | -0.440.122-0.99 ; 0.12 | **4.220.0011.82 ; 6.63** |  | -1.120.786-9.25 ; 7.00 |  | 6.650.057-0.20 ; 13.49 | 0.320.943-8.39 ; 9.02 |  | 0.920.813-6.75 ; 8.59 |  | **0.61<0.0010.51 ; 0.72** | **1.230.0230.17 ; 2.28** |  | - | **11.26<0.0016.26 ; 16.26** | **-0.71<0.001-0.89 ; -0.53** | **1.340.0010.54 ; 2.14** | **0.94<0.0010.54 ; 1.35** | **0.390.0370.02 ; 0.76** |
| C-HAQ, 0-3 | 0.000.9080.00 ; 0.01 | 0.010.815-0.06 ; 0.07 | -0.050.429-0.17 ; 0.07 |  | **-0.400.009-0.70 ; -0.10** |  | **-0.59<0.001-0.93 ; -0.26** | **-0.69<0.001-1.03 ; -0.36** |  | **-0.66<0.001-1.04 ; -0.29** |  | **0.02<0.0010.01 ; 0.02** | -0.010.818-0.05 ; 0.04 |  | **0.01<0.0010.01 ; 0.02** | - | **-0.02<0.001-0.03 ; -0.02** | 0.020.149-0.01 ; 0.05 | 0.010.155-0.01 ; 0.03 | **0.010.0320.00 ; 0.03** |
| PedsQL, 0-100 | -0.040.356-0.14 ; 0.05 | 0.100.712-0.42 ; 0.61 | -0.360.752-2.56 ; 1.85 |  | 5.530.055-0.12 ; 11.17 |  | **7.100.0101.70 ; 12.51** | **7.000.0191.15 ; 12.85** |  | 4.380.126-1.23 ; 9.99 |  | **-0.41<0.001-0.51 ; -0.31** | **-1.170.002-1.92 ; -0.42** |  | **-0.49<0.001-0.62 ; -0.37** | **-12.20<0.001-15.40 ; -8.99** | - | **-1.56<0.001-2.11 ; -1.00** | **-0.74<0.001-1.09 ; -0.38** | -0.250.052-0.51 ; 0.00 |
| Number of days in hospital due to uveitis | -0.010.674-0.03 ; 0.02 | 0.000.556-0.01 ; 0.01 | 0.590.088-0.09 ; 1.27 |  | -0.010.993-1.67 ; 1.66 |  | -1.490.083-3.18 ; 0.19 | -1.650.058-3.36 ; 0.05 |  | 0.280.764-1.55 ; 2.11 |  | **0.06<0.0010.03 ; 0.09** | **0.350.0020.13 ; 0.57** |  | **0.07<0.0010.03 ; 0.11** | 0.800.149-0.29 ; 1.88 | **-0.11<0.001-0.15 ; -0.07** | - | **0.23<0.0010.18 ; 0.29** | **0.080.0010.03 ; 0.12** |
| Missed days in kindergarden/ school due to uveitis | **0.060.0010.02 ; 0.09** | -0.050.477-0.17 ; 0.08 | 0.800.052-0.01 ; 1.61 |  | -0.480.649-2.53 ; 1.58 |  | 0.610.571-1.49 ; 2.70 | 0.270.819-2.05 ; 2.59 |  | 1.750.119-0.45 ; 3.94 |  | **0.15<0.0010.11 ; 0.19** | -0.030.866-0.39 ; 0.33 |  | **0.12<0.0010.08 ; 0.17** | 1.180.155-0.45 ; 2.82 | **-0.11<0.001-0.17 ; -0.05** | **1.30<0.0010.98 ; 1.62** | - | 0.060.242-0.04 ; 0.17 |
| Number of days with restrictions in daily life due to uveitis | -0.020.488-0.08 ; 0.04 | -0.140.338-0.43 ; 0.15 | 0.100.892-1.39 ; 1.60 |  | 0.440.809-3.15 ; 4.04 |  | 2.620.161-1.04 ; 6.29 | 0.500.795-3.24 ; 4.23 |  | -1.300.523-5.28 ; 2.69 |  | 0.060.126-0.02 ; 0.13 | **0.740.0050.22 ; 1.26** |  | **0.110.0210.02 ; 0.20** | **2.590.0320.22 ; 4.97** | **-0.120.013-0.21 ; -0.03** | **0.900.0010.37 ; 1.43** | 0.130.262-0.10 ; 0.36 | - |
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| ***Ophthalmologist*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Physician's global about disease activity in the eyes, VAS, 0-100 | - | 0.210.473-0.37 ; 0.79 | **10.01<0.0017.49 ; 12.54** |  | **23.25<0.00115.46 ; 31.04** |  | **17.84<0.00111.17 ; 24.52** | **16.74<0.0018.50 ; 24.99** |  | **22.77<0.00116.02 ; 29.53** |  | **0.51<0.0010.40 ; 0.63** | -1.200.067-2.49 ; 0.08 |  | **0.210.0120.05 ; 0.37** | -1.850.529-7.61 ; 3.91 | 0.020.842-0.21 ; 0.26 | -0.740.098-1.63 ; 0.14 | **0.720.0040.23 ; 1.21** | -0.330.126-0.74 ; 0.09 |
| Total number of AC cells | 0.070.106-0.01 ; 0.16 | - | **4.91<0.0014.15 ; 5.67** |  | **4.79<0.0012.26 ; 7.32** |  | **4.44<0.0012.37 ; 6.51** | **4.290.0011.81 ; 6.76** |  | 0.630.502-1.22 ; 2.48 |  | **0.17<0.0010.09 ; 0.25** | 0.230.379-0.28 ; 0.75 |  | -0.080.216-0.21 ; 0.05 | 1.490.084-0.20 ; 3.17 | 0.050.218-0.03 ; 0.14 | -0.740.827-7.36 ; 5.88 | -0.130.608-0.61 ; 0.36 | -0.040.692-0.26 ; 0.17 |
| AC cell grade | **0.02<0.0010.01 ; 0.02** | **0.13<0.0010.11 ; 0.15** | - |  | 0.010.991-0.30 ; 0.30 |  | **1.29<0.0011.07 ; 1.52** | **1.14<0.0010.85 ; 1.43** |  | **0.46<0.0010.21 ; 0.72** |  | **0.010.0090.00 ; 0.01** | -0.010.697-0.05 ; 0.04 |  | **0.010.0170.00 ; 0.02** | -0.160.184-0.40 ; 0.08 | 0.000.709-0.01 ; 0.01 | 0.030.196-0.01 ; 0.07 | 0.020.1040.00 ; 0.04 | 0.000.978-0.02 ; 0.02 |
| Visual acuity, logMAR | **0.01<0.0010.00 ; 0.01** | 0.010.716-0.01 ; 0.01 | -0.010.571-0.05 ; 0.03 |  | - |  | **0.110.0280.01 ; 0.20** | 0.060.339-0.06 ; 0.17 |  | **0.180.0010.07 ; 0.28** |  | **0.010.0140.00 ; 0.00** | -0.010.156-0.03 ; 0.00 |  | 0.010.6140.00 ; 0.00 | **-0.130.008-0.22 ; -0.03** | 0.010.0710.00 ; 0.01 | 0.010.819-0.02 ; 0.01 | 0.010.978-0.01 ; 0.01 | 0.010.813-0.01 ; 0.01 |
| AC flare grade (flare versus no flare), SUN | **1.03<0.0011.01 ; 1.04** | **1.25<0.0011.10 ; 1.41** | **3.76<0.0012.81 ; 5.04** |  | **2.360.0101.23 ; 4.55** |  | - | - |  | **4.52<0.0012.36 ; 8.69** |  | 1.010.3720.99 ; 1.02 | 0.920.1790.80 ; 1.04 |  | 1.010.3410.99 ; 1.02 | **0.490.0020.32 ; 0.77** | **1.020.0151.00 ; 1.05** | 0.930.0850.86 ; 1.01 | 1.010.7730.96 ; 1.05 | 1.030.2100.99 ; 1.07 |
| AC flare grade (flare versus no flare), MIWGUC | **1.02<0.0011.01 ; 1.03** | **1.250.0041.07 ; 1.46** | **2.89<0.0012.10 ; 3.99** |  | 1.430.2760.75 ; 2.71 |  | - | - |  | **4.68<0.0012.19 ; 10.00** |  | 0.990.2890.98 ; 1.01 | 0.860.1560.70 ; 1.06 |  | 1.000.6860.99 ; 1.02 | **0.450.0010.29 ; 0.71** | **1.020.0451.00 ; 1.04** | 0.920.0810.84 ; 1.01 | 1.000.9950.96 ; 1.05 | 1.000.9170.97 ; 1.04 |
| Any structural complication | **1.03<0.0011.02 ; 1.04** | 0.990.8690.91 ; 1.08 | **1.380.0041.11 ; 1.71** |  | **4.580.0041.64 ; 12.76** |  | **3.19<0.0011.84 ; 5.54** | **3.83<0.0011.92 ; 7.63** |  | - |  | 1.010.0851.00 ; 1.02 | 0.910.0650.83 ; 1.01 |  | 1.000.9490.98 ; 1.02 | **0.470.0020.30 ; 0.75** | 1.010.1311.00 ; 1.03 | 1.010.8200.92 ; 1.11 | 1.080.0661.00 ; 1.17 | 0.990.4620.95 ; 1.02 |
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| beta = regression coefficient for continuously distributed variables; CI = confidence interval; OR = Odds ratio for categorical variables |  |  |  |