

**Figure 1:effect of rheumatoid on blood IL-10&TNF-α**



**Figure 2: effect of gender on blood IL-10 in healthy & patient individuals**

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**Figure 3: effect of gender on blood TNF-α in healthy & patient individuals**

**Table 1: HLA-DR genotyping in RA patients in comparison to healthy control.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HLA-DR allele** | **RA** | **%** | **Control** | **%** | **OR** | **IOR**  | **EF** | **PF** | **P value** |
| **\*0203**  | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0204** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS**  |
| **\*0302** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |
| **\*0308** | **4** | **13.33%** | **5** | **25.00%** | **0.479** | **2.090** | **-4.36** | **0.81** | **NS** |
| **\*0309** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0318** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0319** | **2** | **6.67%** | **0** | **0.00%** | **3.596** | **0.278**  | **1.44** | **3.25** | **NS** |
| **\*0329** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0402** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **\*0405** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **1.08** | **NS**  |
| **\*0415** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00%** | **NS** |
| **\*0435** | **1** | **3.33%** | **1** | **5.00%** | **0.661** | **1.513** | **-0.51** | **0.34** | **NS** |
| **\*0440** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0442** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0446** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0456** | **2** | **6.67%** | **2** | **10.00%** | **0.649** | **1.541** | **-1.08** | **0.52** | **NS** |
| **\*0459** | **1** | **3.33%** | **4** | **20.00%** | **0.186** | **5.364** | **-4.36** |  **0.81** | **NS** |
| **\*0603** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |
| **\*0701** | **9** | **30.00%** | **0** | **0.00%** | **18.116** | **0.055** | **8.50** | **1.13** | **.007** |
| **\*0707** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0713** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0716** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |
| **\*0717** | **4** | **13.33%** | **3** | **15.00%** | **0.849** | **1.178** | **-0.71** | **0.42** | **NS** |
| **\*1001** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*1101** | **1** | **3.33%** | **1** | **5.00%** | **0.661** | **1.513** | **-0.51** | **0.34** | **NS** |
| **\*1107** | **3** | **10.00%** | **0** | **0.00%**  | **5.218** | **0.192** | **2.43** | **1.70** | **NS** |
| **\*1109** | **2** | **6.67%** | **2** | **10.00%** | **0.649** | **1.541** | **-1.08** | **0.52** | **NS** |
| **\*1112** | **1** | **3.33%** | **0** | **0.00%**  | **2.085** | **0.480** | **0.52** | **1.08** | **NS** |
| **\*1122** | **2** | **6.67%** | **0** | **0.00%**  | **3.596** | **0.278** | **1.44** | **3.25** | **NS** |
| **\*1137** | **2** | **6.67%** | **0** | **0.00%** | **3.596** | **0.278** | **1.44** | **3.25** | **NS** |
| **\*1152** | **1** | **3.33%** | **0** | **0.00%**  | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*1156** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |
| **\*1165** | **1** | **3.33%** | **1** | **5.00%** | **0.661** | **1.513** | **-0.51** | **0.34** | **NS** |
| **\*1301** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |
| **\*1302** | **2** | **6.67%** | **0** | **0.00%** | **3.596** | **0.278** | **1.44** | **3.25** | **NS** |
| **\*1359** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*1360** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52 -** | **1.08** | **NS** |
| **\*1370** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |
| **\*1374** | **0** | **0.00%** | **3** | **15.00%** | **0.082** | **12.200** | **0.00** | **0.00** | **NS** |
| **\*1401** | **2** | **6.67%** | **0** | **0.00%** | **3.596** | **0.278** | **1.44**  | **3.25** | **NS** |
| **\*1525** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*1601** | **1** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |
| **\*1605** | **0** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*1607** | **1** | **3.33%** | **0** | **0.00%** | **2.085**  | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*1613** | **0** | **0.00%** | **1** | **5.00%** | **0.213** | **4.692** | **0.00** | **0.00** | **NS** |
| **\*6389** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*9045** | **1** | **3.33%** | **0** | **0.00%** | **2.085** | **0.480** | **0.52** | **-1.08** | **NS** |
| **\*0403** | **2** | **6.67%** | **7** | **35.00%** | **0.158** | **6.333** | **-10.67** | **0.91** | **0.020** |