The role of adiponectin, TNF-α and glutathione in the pathogenesis and evolution of type 1 diabetes

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| **Factor** | **Detalis** | **cases** | **controls** | **Statistics** |
| --- | --- | --- | --- | --- |
| **Group** |  | **72 (44.4%)** | **90 (55.6%)** |  |
| Sex | F | 38 (52.8%) | 42 (46.7%) | OR=1.28 [0.69, 2.38], phi=0.06 (p=0.527) |
| M | 34 (47.2%) | 48 (53.3%) |
| **Age (years)** | **μ ±DS** | **11.93 ±4.27** | **10.19 ±5.08** | **MW: p=0.037** |
| Age at onset (years) | μ ±DS | 6.84 ±3.97 |  |  |
| **Body mass index (kg/m²)** | **μ ±DS** | **18.96 ±3.37** | **17.32 ±4.06** | **MW: p=0.001** |
| **Weight (kg)** | **μ ±DS** | **45.15 ±17.8** | **37.00 ±19.8** | **MW: p=0.004** |
| **HbA1c (%)** | **μ ±DS** | **8.81 ±1.79** | **4.81 ±0.451** | **MW: p<0.001** |
| Insulin intake (IU/kg/day) | μ ±DS | 0.949 ±0.271 |  |  |
| Injections/day n (%) | 4 | 40 (55.6%) | 0 |  |
| 5 | 25 (34.7%) | 0 |
| insulin pump | 7 (9.7%) | 0 |
| **Neuropathy n (%)** | | **24 (33.3%)** | **0** | **OR=91.43 [5.44, 1 536.40], phi=0.47 (p<0.001)** |
| **Nephropathy n (%)** | | **6 (8.6%)** | **0** | **OR=18.24 [1.01, 329.56], phi=0.22 (p=0.006)** |
| Retinopathy, n (%) | | 2 (2.8%) | 0 | OR=6.42 [0.30, 135.84], phi=0.12 (p=0.196) |
| **Other complications\*** | | **59 (81.9%)** | **0** | **OR=797.74 [46.54, Inf], phi=0.85 (p<0.001)** |
| Systolic blood pressure (mmHg) | μ ±DS | 100.21 ±11.9 | 101.50 ±12.9 | MW: p=0.575 |
| Diastolic blood pressure (mmHg) | μ ±DS | 54.65 ±10.7 | 56.83 ±9.32 | MW: p=0.219 |
| Adiponectin (μg/L) | μ ±DS | 14.07 ±4.69 |  |  |
| TNF-alfa (pg/mL) | μ ±DS | 11.09 ±4.21 |  |  |
| **Alfa 1AT** | **μ ±DS** | **133.50 ±18.2** | **155.07 ±28.3** | **MW: p=0.002** |
| **Cholesterol (mg/dL)** | **μ ±DS** | **169.57 ±41.0** | **153.19 ±22.3** | **MW: p=0.008** |
| Triglycerides (mg/dL) | μ ±DS | 85.32 ±48.5 | 72.43 ±29.0 | MW: p=0.132 |
| HDL (mg/dL) | μ ±DS | 54.47 ±11.3 | 53.40 ±9.76 | MW: p=0.693 |
| *μ ±DS = Mean (standard deviation); M (min:max) = Median (min:max); MW = Mann-WhitneyTest; OR/RR = odds-ratio / risc-ratio [95% CI] and p value from Fisher test); V = Cramer V (p value from Chi² test);* | | | | |

# Referințe

1. R Core Team (2019). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL <https://www.R-project.org/>.