

# VoxSanguinis

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CONNECTION OF THE ABO BLOOD GROUP SYSTEM FROM THE WHOLE BLOOD GROUPS WITH THE DIABETES MELLITUS TYP 2 FOR THE PERIOD 2005–2009

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**Introduction:** The real dimension of the connection between any blood group from the ABO system of blood groups and Diabetes mellitus type 2 in the eastern part of Republic of Macedonia is not well known.

**Aim:** The aim of our study was to establish the connection of blood group from the ABO system of blood groups with Diabetes mellitus type 2.

**Material and methods:** The total number of registered patients with Diabetes mellitus type 2 in the Center of Diabetes of Clinical Hospital in Strip for the period 2005–2009 is 5,342. They were followed belong to ABO system of blood group by the determination of the ABO blood group and after receiving the written permission.

The control group contained 12,500 healthy blood donors donated blood during the same period. The examination of the patients was realized in the RE of Transfusion Strip using micro-agglutinated cards (Dia Med-ID Mikro Typing Systems).

**Results:** The results using Chi-square test showed no connection between ABO blood groups and Diabetes mellitus type 2. Blood group 'A' and 'O' were negatively associated with Diabetes mellitus type 2 ( $P < 0.005$ ) because the biggest part of that blood group were no diabetic patients. There is no significant association between blood group 'B' and 'AB' with Diabetes mellitus type 2, although most of patients with Diabetes mellitus type 2 were with blood group 'B'.

**Discussion and conclusion:** After completed the study, obtained results confirmed that there is a negative correlation of blood group 'A' and 'O' from the ABO system of blood groups with Diabetes mellitus type 2.