

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

Kamceva G, Kamcev N, Janevik E, Kamceva M

University "Goce Delčev", Faculty of Medical sciences, Štip, R. Macedonia



## INTRODUCTION

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

## MATERIAL AND METHODS

The total number of registered patients with Diabetes mellitus type 2 in the Center of Diabetes of Clinical Hospital in Štip for the period 2005-2009 is 5342. 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 Štip using mikroagglutinated cards ( Dia Med-ID Mikro Typing Systems).

## 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.

## RESULTS

The results using Chi-square test showed no connection between ABO blood groups and Diabetes mellitus type group "B" and "AB" with Diabetes mellitus type 2, although most of patients with Diabetes mellitus type 2 were with blood group "B".

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 between blood group "A" and "O" from the ABO system of blood groups with Diabetes mellitus type 2.

VoxSanguinis

WILEY

Application code Copyright © 2000-2017 by John Wiley & Sons, Inc., or related companies. All rights reserved.

ISBT