

Incidence of HbsAg, Anti-HCV, Anti-HIV and Treponema pallidum antibodies in blood donor of high school and students population in Stip municipality - Republic Macedonia

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INTRODUCTION

Transfusion transmissible diseases have still been serious transfusion and health-social problem in Republic Macedonia.

GOAL

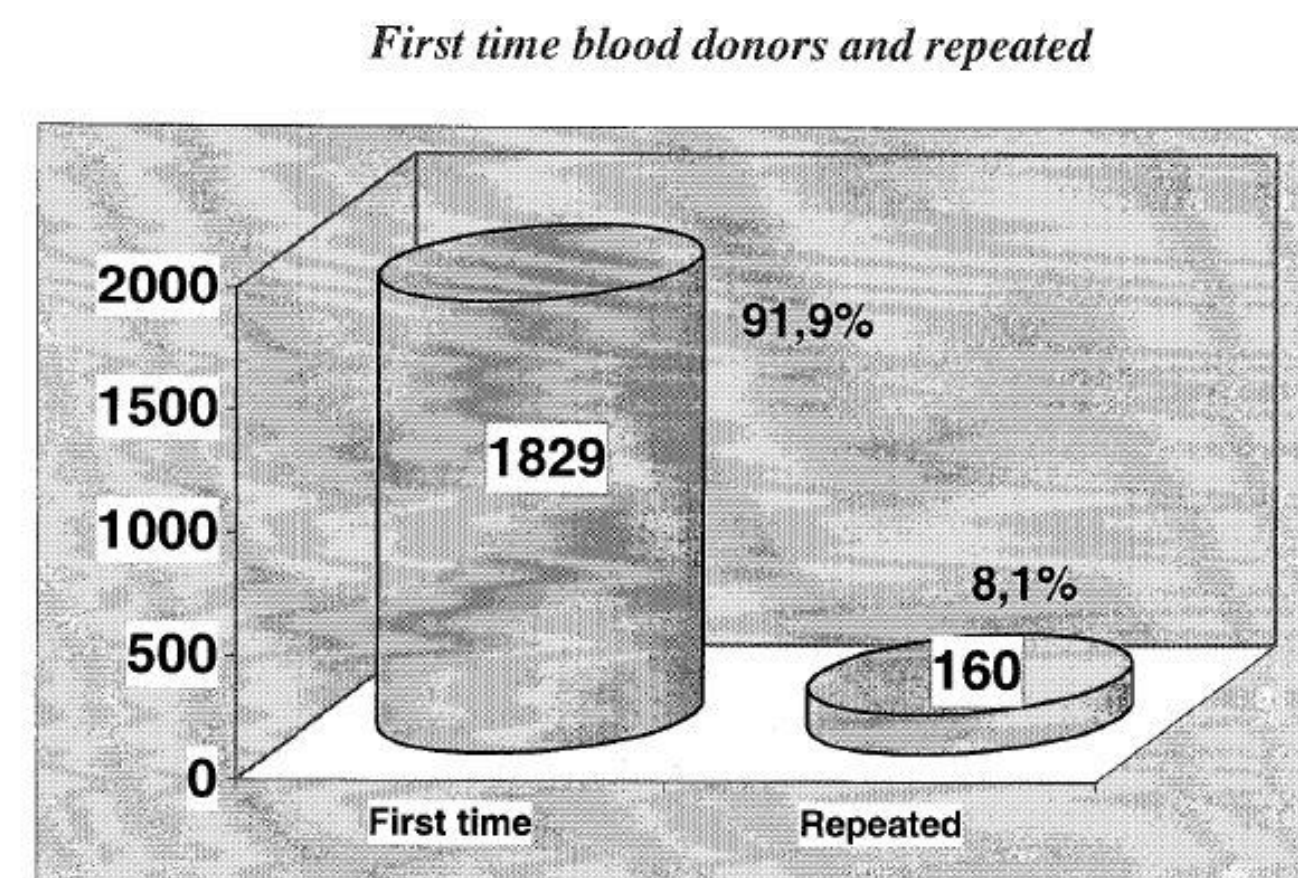
To determine the incidence of HBsAg, anti-HCV, anti-HIV and Treponema pallidum antibodies from the donated blood in school children and students on age between 18 and 25.

MATERIAL AND METHODS

In the last five years the Transfusion Department has realized totally 1989 donated blood units from school children and students in Stip municipality. In the Transfusion Department in Stip of transfusiology in Skopje for detection and confirmation of positive results for HbsAg, anti-HCV and anti-HIV in both examined groups. ELISA-tests from the third generation from the company Organon Technika; and for Treponema pallidum antibodies Trepanostika TM TP-Microelisa system.

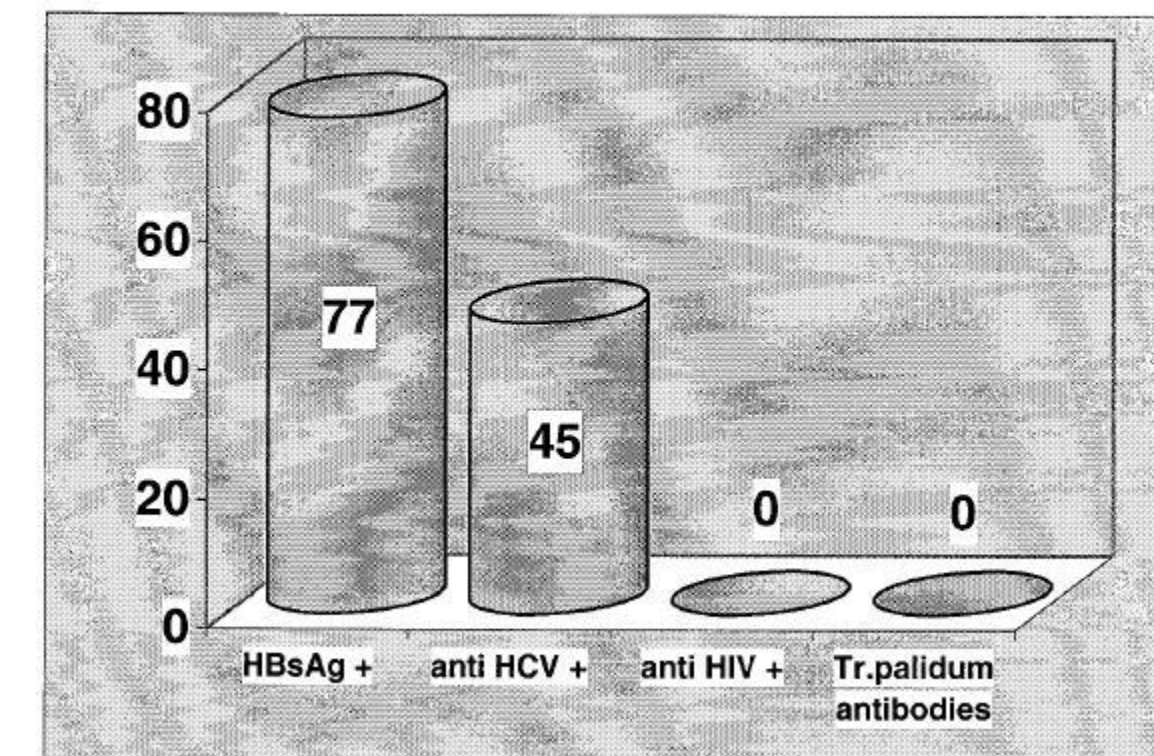
RESULTS

From totally 1989 donated blood units from high school and students population, the presence of HbsAg has been detected in 80 (4,0%). The presence of HCV antibodies is detected in 50 (2,5%) from the total number of blood donors - school children and students. Neither in one of the tested 1989 serum samples, there have been no detected presences of HIV and Treponema pallidum antibodies.

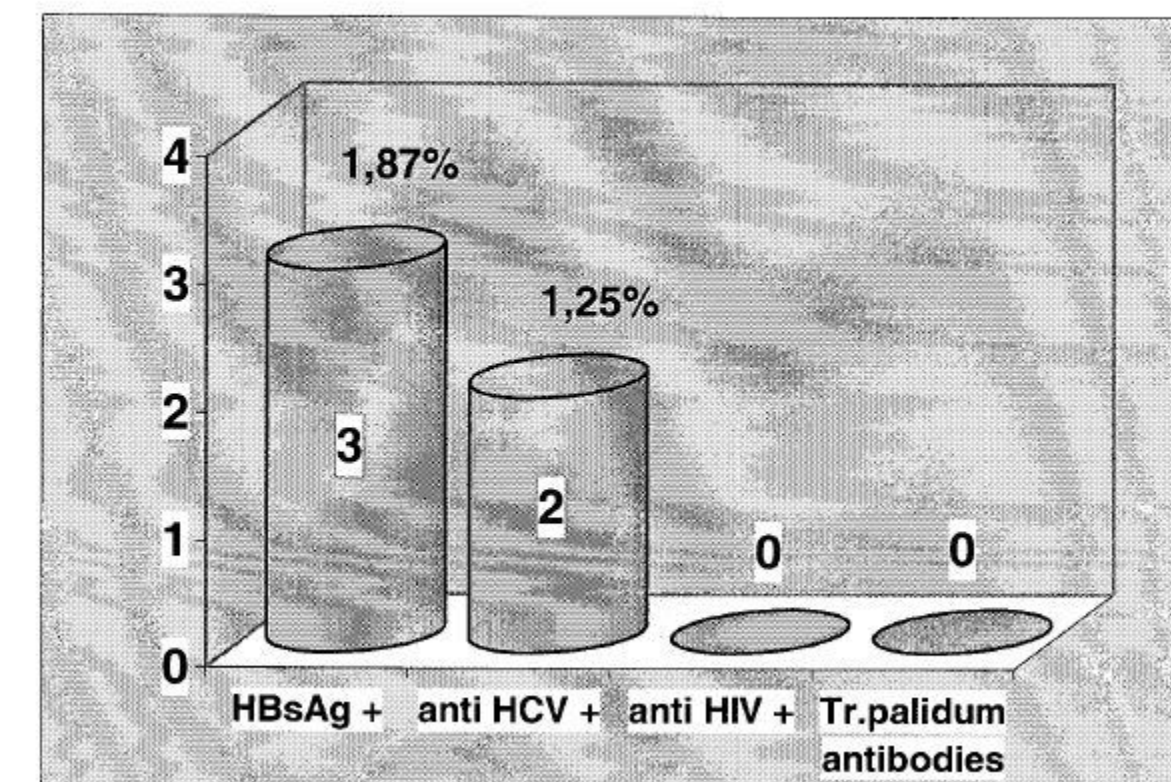


RESULTS

Incidence of HBsAg, anti-HCV, anti-HIV and Treponema pallidum antibodies in first time blood donors



Incidence of HBsAg, anti-HCV, anti-HIV and Treponema pallidum antibodies in repeated blood donors



CONCLUSION

The incidence of HbsAg and anti-HCV in school children and students who donated blood for the first time is higher especially in the last few years, compared with common blood donor population.

Incidence of HBsAg, anti-HCV, anti-HIV and Treponema pallidum antibodies in high school and students blood donors

