

Incidence of Cytomegalo virus in Voluntereed blood donors in the Eastern Part of Republic of Macedonia proved with CMV IgG Instant Test and CMV IgG, M Instant Test

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INTRODUCTION

CMV has been spread all over the world, but it has been mostly present in countries with low socioeconomic status.

GOAL

To find the incidence of CMV antibodies in voluntereed blood donors in the Eastern part of R.Macedonia at age between 18 and 65.

MATERIAL AND METHODS

For determining incidence of anti-CMV in the last three years in 302 donated blood units from school children and students at age between 18 and 25 in 898 donated blood units from donors at age 40-65 serologic tests for detection of anti-CMV have been made. For this purpose we used CMV IgG Instant test and CMV IgG, M Instant test. ELISA test and PCR test are not used because of financial problems.

RESULTS

From 302 tested blood donations from school children and students at age of 18 to 25, the presence of anti-CMV was detected in 63 (20,86%) and from 898 tested blood units got from few-times donors of age of 40 to 65, presence of anti-CMV was detected in 502 (55,9%) serum samples.

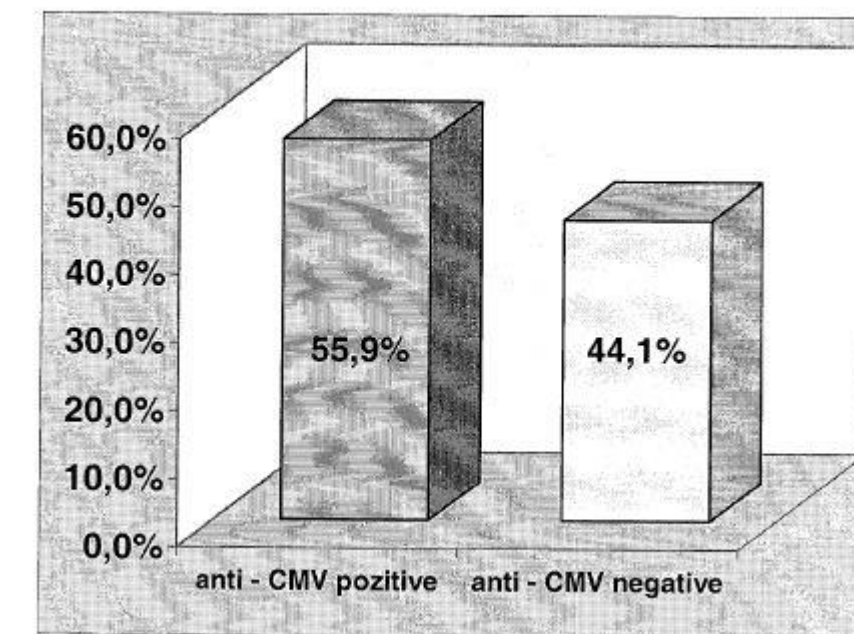
Tab. 1

Tested blood donations for presence of anti-CMV

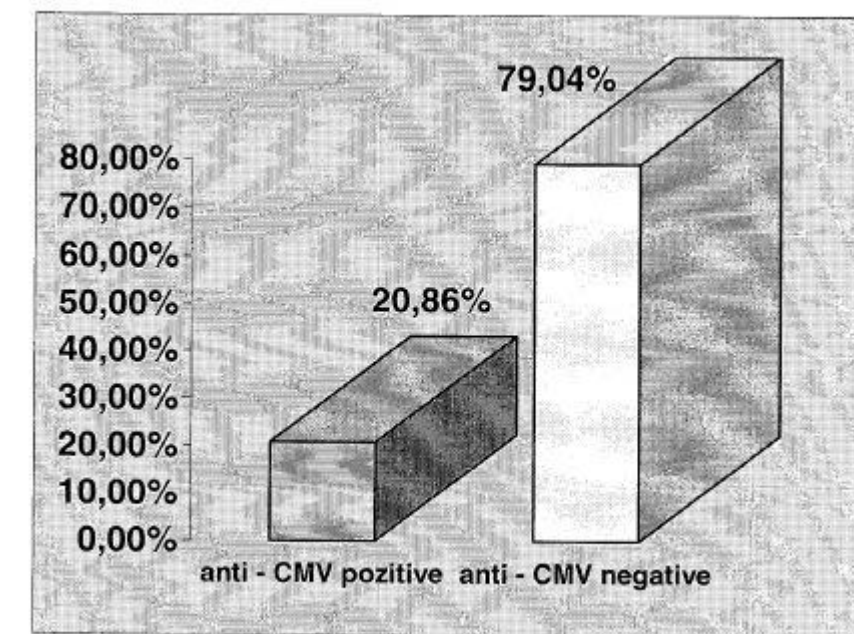
| Tested blood units | Blood donors | | | |
|----------------------|--------------|-------|----------|-------|
| | negative | | positive | |
| | number | % | number | % |
| Anti-CMV (18-25 age) | 239 | 79,04 | 63 | 20,86 |
| Anti-CMV (40-65 age) | 396 | 44,09 | 502 | 55,90 |

RESULTS

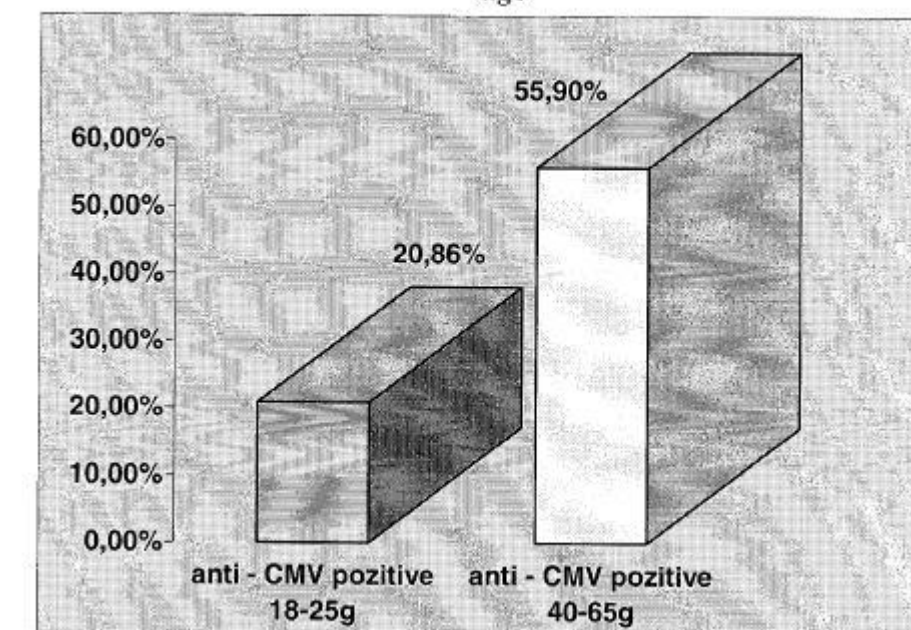
Incidence of anti-CMV in blood donors on age 40-65



Incidence of anti-CMV in blood donors on age 18-25



Comparative positive results in blood donors in accordance of patients age



CONCLUSION

The incidence of anti-CMV in the blood of voluntereed blood donors is from 20,86% to 55,9%. For prevention of transfusiologically transmitted CMV infection we recommend: the use of anti-CMV negative blood products, the use of blood products from which Le have been removed by filtering through special filters.