

BIO-MEDICAL RESEARCH  
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Brief Summary

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EFFECTS OF VINYL CHLORIDE EXPOSURE ALONE AND IN  
COMBINATION WITH TRYPAN BLUE — APPLIED SYSTEMATICALLY  
DURING ALL THIRDS OF PREGNANCY ON THE FETUSES OF CFY  
RATS

GY. UNGVÁRY, ARANKA HUDÁK, ERZSÉBET TÁTRAI, M. LÖRINCZ and  
G. FOLLY

*Departments of Experimental Pathology and Chemistry, State Institute of Occupational  
Health, Budapest, H-1450 Budapest P.O.B. 22 and Institute of Experimental Medicine,  
Hungarian Academy of Sciences, Budapest, H-1450 Budapest P.O.B. 67 (Hungary)*

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SUMMARY

Vinyl chloride (VC) has been shown to be present in the fetal and maternal blood as well as in the amniotic fluid after the exposition of pregnant CFY rats to VC at an atmospheric concentration of 5500, 18 000 or 33 000 mg/m<sup>3</sup> (~2000, 7000 or 12 000 ppm) for 2.5 h on the 18th day of pregnancy, indicating the permeability of the placenta to the agent.

Teratological investigation of the offspring of pregnant rats exposed continuously to VC at an atmospheric concentration of 4000 mg/m<sup>3</sup> air (1500 ppm) during the first, second or last third of pregnancy has shown that VC has no teratological effect in the rat and has no embryotoxic effects either, when applied during the second or last third of pregnancy in the above concentration. Exposition to VC during the first third of pregnancy resulted in an increased fetal mortality and in the manifestation of embryotoxic effects. Fetal losses and induction of central nervous system malformation due to trypan blue administration were not potentiated by a combined exposure of pregnant rats to VC and the dye.

INTRODUCTION

VC is ranking 23rd from among the 50 most widely used industrial chemi-

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Abbreviation: VC, vinyl chloride.