ORIGINAl PAPElS

Life without Blood
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(A study of the influence of high atmospheric pressure and hypothermia on dilution of the blood)

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Summary

The authors lowered the level of haemoglobin in young pigs to 0.4 per cent, exchanging the blood by plasma or by rheomacroderx. The animals, breathing oxygen at a pressure of 3 atmospheres in a high pressure tank, lived for 45 minutes with a level of haemoglobin not compatible with life when at normal atmospheric pressure. During all this time the EEG showed no pathological changes, the circulation and blood pressure remained spontaneously normal. Recovery was uneventful after re-infusion of normal blood.

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