Enzyme fix could end blood shortages

A simple method of converting blood from one group to another could end shortages of blood around the world. Scientists have discovered enzymes that can efficiently convert blood groups A, B and AB into the universal O group, which can then be safely transfused into anyone

BI OOD **FRYTHROCYTES** Blood is composed of a straw-coloured Cell membrane: Contains A or B

liquid called *plasma* which contains erythrocytes - red cells which carry oxygen around body - leukocytes. or white cells, and platelets

antigens which stimulate antibody generation. Red blood cells carry one of these antigens, both or neither, giving four blood groups: A. B. AB or O. Receiving wrong





cells and fight infections



Modified blood can now be used in emergency situations where there is no time to determine patient's own group

Enzymes strip antigens away from A, B and AB blood, creating type O

Sources: Nature, ZymeQuest

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