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Cord blood (CB) stem cells for wound repair. Preliminary report

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In 2 patients, to promote skin wound/lesion repair we used fibrin-platelet glue combined with HLA compatible (2 mismatches accepted) buffy coats containing CD 34+ cord blood cells.

The fibrin platelet glue was prepared with autologous apheresis platelets and cryoprecipitate. The original product was divided into 3 and 4 aliquots respectively for a correspondent number of applications. At each application, the margins of the lesion were infiltrated with 3 ml of cord blood buffy coat, containing 30×10^3 CD 34+ cells.

No graft versus tissue reaction was seen in our patients in a follow-up of 3-7 months. The level of improvement, scored arbitrarily from 0 to 4, was 3 and 4, respectively.

Our conclusion is that the use of cord blood cells along with fibrin platelet glue is of clinical interest.

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