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Percutaneous Autologous Bone Marrow Grafting on the site of Tibial Delayed Union

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Six months after injury, 150 mL of autogenous bone marrow was applied percutaneously at the site of delayed union to stimulate the healing of a tibial delayed union fracture in a 44 year-old man. Five months following the procedure, the fracture gaps and bone defects were completely filled with callus, the external fixator was removed, and the patient started using normal leg loading.

Key words: bone marrow transplantation; bone regeneration; callus; fracture healing; fractures, malunited; osteosynthesis, fracture