

Supplementary material

Materials and Methods

To assess the progression of endochondral ossification, the cartilage areas were microscopically evaluated.¹ The total cartilage area was calculated as the sum of the areas of cartilage using NIH ImageJ version 1.51 software (n=3 in each group at each timepoint).

Results

In both groups, the cartilage area increased over time, with a peak on day 14 followed by a decline. Although there was no statistically significant difference, the cartilage area was smaller in the DM group than that in the control group on days 14 and 21.

References

1. Ogasawara A, Nakajima A, Nakajima F, et al. Molecular basis for affected cartilage formation and bone union in fracture healing of the streptozotocin-induced diabetic rat. *Bone* 2008;43:832-9.

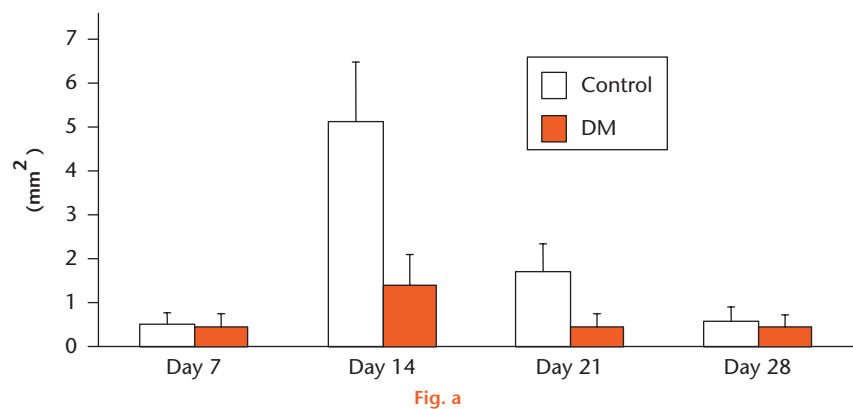


Fig. a

Quantitative analysis of the cartilage area in the sections of femurs stained with safranin O and measured using NIH ImageJ software (NIH, Bethesda, Maryland) (n=3 in each group). Values are the mean and standard error.