



## Use of stem cells in bone regeneration: Feedback on the Maxibone clinical trial

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### Abstract :

The use of stem cells is the subject of a lot off research in the medical field and brings great hope for the regeneration of damaged tissues in various pathologies. Many clinical trials are conducted in field of medicine, although it is difficult to obtain administrative authorizations to carry them out.

This presentation reports the preliminary results of a multicenter clinical trial named Maxibone, supported by Europe, concerning the use of stem cells associated with a synthetic biomaterial, compared to an autologous bone graft, in bone augmentation techniques for implantology. A preclinical study associated with the project using synthetic bio-printed grafts will be presented too.

We will conclude on the positive aspects and the difficulties encountered during this trial, rich in teaching for future research in the field.