

## Bone Transplantation, New Platforms

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### Abstract

Bone transplantation is a modern trend. Yet, this kind of medical surgery is far from perfections. Many obstacles are main challenging and breakthrough awaiting (materials, surgery and cell regeneration). Facing with needs of different innovations, biomedical and technical topics should be made for building new platform and more suitability to clinical utility. This editorial discusses in this area.

**Keywords:** Bone Surgery; Artificial Bones; Orthopaedics; 3-D Printer; Bone Replacement

### Introduction

Human bone is a vulnerable tissue to outside attack and tumor growth. Bone fracture, consistent pain, and osteosarcoma are often met in most people [1-7]. Bone health should be kept [8-14]. Bone transplantation or surgery is a modern trend to move forward [15-19]. Yet, this kind of medical surgery is far from perfections. Many obstacles are main challenging and breakthrough awaiting. Facing with needs of different innovations, biomedical and technical topics should be made. This editorial discusses in this area.

### Main obstacles

Three main topics have been studies nowadays-including replaced material, surgery, immunity, and regenerative tissues [20-22]. New therapeutic ideology and technical capability are supported and investigated (Figure 1).



**Figure 1:** Main technical progress.

### Results

Bone transplantation surgery varies greatly in protocol, materials and techniques. Despite of bright future for bone replaced surgery, a long way to go is present in practical utility, especially above-mentioned pathways. In search for new solutions for bone surgery, cutting-edge technology utility should be developed.

### New insights

Bone surgery has a lot of different criteria, methods, and options. Systems and platforms are gradually improved by drawback remove. Novelty will be added to improve the systems or platforms.

In the future, bone transplantation will be a united system or platform. Excellence tissue and functional repairs will be based on gradually technical perfections. Different limitation and drawbacks in practices will be overcome by scientific advances and technical renovation (mainly including material, immunity, surgical techniques and tissue regeneration). Any scientific advances in the area will be great for this medical platform.

### Conclusion

Overall, bone transplanting study and application will enter into new era. Integration and criteria improvements are key issues for move forward.

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