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The Outcome of Prosthetic Surgery of Large Joints—Hips, Shoulders, and Knees

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Message from the Guest Editor

Dear Colleagues,

Large joint prosthetic replacement surgery has been established as a standard treatment tool in disabling joint arthrosis. However, due to the basic problem of long-term loosening of the implanted devices, there is still an evolving process for the improvement of prosthetic devices and surgical techniques. The outcome studies are the main tools for understanding and evaluating the long-term survivorship of this surgical modality.

The emphasis of the Special Issue is placed on the rationale for newly developed endoprosthetic designs, as reflected in their short and long term clinical survivorship.

Currently, research efforts for improving prosthetic longevity are mainly focused in the area of material optimization, i.e., joint surfaces and 3D design. Additionally, research studies are also directed towards reducing aseptic loosening by the improvement of bone ingrowth by using tissue engineering and pharmacological approaches.

Follow-up research studies focusing on common and innovative joint replacements are of interest. Special emphasis is placed on survivorship analyses studies.



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