



Advances in the Tribology of Artificial Hip and Knee Joints

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Artificial hip and knee joints have been successful in restoring joint function and mobility. However, wear of articular bearing surfaces and osteolysis continue to be major factors that limit implant longevity. Wear debris, generated in artificial hip and knees, are largely confined to the bone and joint interface. Phagocytosis of wear debris is size-dependent. Wear particle size, shape, and volume are influenced by joint type, bearing geometry, material combination, and lubricant-type. The released, unwanted metallic debris interact with periprosthetic surrounding tissues and may cause pain, hypersensitivity, inflammation, pseudotumour formation, implant loosening, and the need for revision surgery. Further research is warranted to improve the articular bearing surfaces of artificial hip and knee joints.

Dr. Rajshree Mootanah
Guest Editor





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Message from the Editor-in-Chief

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