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Mark Barba, MD Co-authors Research on Impact Wear Particles Have on Cell-Accelerated Corrosion of Metal Alloy in Total Hip Replacement Implants

ROCKFORD, IL January 23, 2020 … **Mark Barba, MD,** of OrthoIllinois has co-authored a research paper published online by Elsevier, Ltd. in the fourth quarter 2019.

The paper, titled, "Wear particles induce a new macrophage phenotype with the potential to accelerate material corrosion within total hip replacement interfaces," reveals evidence that particles released from metal hip replacement implants through normal wear and tear can induce the body to generate new cells, or marcophages, that attack and corrode the implant, potentially leading to implant failure. The publication represents the study Dr. Barba conducted with researchers at the Department of Biomedical Science, University of Illinois College of Medicine at Rockford, and Department of Orthpaedic Surgery, Rush University Medical Center.

As a Board-Certified surgeon, Dr. Barba's practice at OrthoIllinois is focused on joint replacement of the hip and knee, with an interest in advanced procedures such as out-patient joint replacement, hip resurfacing, partial knee replacement, and ASI along with traditional techniques for hip and knee replacement.

Elsevier is a publishing and analytics company specializing in scientific, technical, and medical content. Elsevier publishes more than 2,500 journals delivered digitally throughout the world.

Rockford Orthopedic Associates, Ltd., D/B/A OrthoIllinois, serves the Northern Illinois region in multi-specialty orthopedics from offices in Rockford, Elgin, and Algonquin, Illinois and offers a full range of bone and joint care including the additional specialties of podiatry, physical medicine and rehabilitation, occupational health and rheumatology. OrthoIllinois offers the ancillary services of physical therapy, MRI, and an out-patient surgery center. #