

**MASSACHUSETTS GENERAL HOSPITAL
DEPARTMENT OF ORTHOPAEDIC SURGERY**

GRAND ROUNDS

Howard D. Routman, DO, FAOAO

*Director, Palm Beach Shoulder Service at Atlantis Orthopaedics
President, The Orthopedic Foundation
President, Palm Beach Shoulder and Sports Medicine Foundation
Palm Beach, FL*

***“Artificial Intelligence, Machine Learning,
and Shoulder Arthroplasty”***



***Thursday, November 18, 2021
6:45am - 7:45am***



***Massachusetts General Hospital
via Zoom***





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Department of Orthopaedic Surgery**

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Howard D. Routman, DO, FAOAO is a board-certified orthopaedic surgeon sub-specializing in disorders of the shoulder. Dr. Routman has been a South Florida resident since 1979. He graduated from the University of Florida and Nova-Southeastern University with highest honors. He completed his residency at the Philadelphia College of Orthopaedic Medicine, and then an American Shoulder and Elbow Surgeons Fellowship in 2000 at the Hughston Sports Medicine Foundation in Columbus, GA under the direction of George McCluskey. In 2001, Dr Routman began his practice in Palm Beach County and has been there for 20 years. He is Director of Palm Beach Shoulder Service at Atlantis Orthopaedics, President of The Orthopedic Foundation, and President of the Palm Beach Shoulder and Sports Medicine Foundation.

Dr. Routman is one of the regional pioneers of all-arthroscopic rotator cuff repair, performing this procedure since 2002. He also performed the first reverse shoulder replacement in South Florida in 2003. Dr. Routman's practice encompasses all aspects of shoulder problems from sports injuries, fractures, replacements, second opinions and the management of previous surgical failures. In addition to treating patients, Dr. Routman teaches internationally and has performed surgery in Australia, Asia, Europe, and South America. A design surgeon for Exactech, Dr. Routman is actively involved in research focused on patient outcomes after shoulder replacement and has published multiple studies focused on results, pain management and the biomechanics of shoulder replacement surgery.

As a contributor of over 1000 shoulder arthroplasties to the industry sponsored Exactech database, Dr. Routman was involved in the entrance of this dataset into a machine learning analysis. He learned about how this technology can and will impact our decision making as surgeons both now and in the years to come.

6:45am ***Welcome***

Jon JP Warner, MD
*Chief, Shoulder Service
Acting Chief, Sports Medicine Service
Chair, Quality and Safety for Orthopedics
Co-Director, Shoulder & Elbow
Fellowship Program
Department of Orthopaedic Surgery
Massachusetts General Hospital
Professor of Orthopaedic Surgery
Harvard Medical School*

6:50am ***“Artificial Intelligence,
Machine Learning, and
Shoulder Arthroplasty”***

Howard D. Routman, DO, FAOAO

7:45am ***Wrap-up / Adjourn***

Jon JP Warner, MD