

Biomechanics of Rotator Cuff

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Congress Medical Foundation

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Abstract: In this lecture, the biomechanical concepts behind current rotator cuff repair techniques and how they are evaluated from mechanical engineering perspective will be reviewed and discussed.

Bio: Dr. Lee received his undergraduate degree at University of California, San Diego at Revelle College with a BS in Bioengineering. He then obtained his MS in Applied Mechanics at University of California, San Diego. He received his PhD in Biomaterials from Gothenburg University in Sweden. Dr. Lee joined the Department of Veterans Affairs and University of California, Irvine in 1987 and established an Orthopaedic Biomechanics Laboratory based at the VA Long Beach Healthcare System. In addition to establishing a highly productive state of the art orthopaedic biomechanics research program, he consistently moved up the ranks at the VA and the University of California. In the Department of Orthopaedic Surgery, Dr. Lee held a rank of Professor Step VI and served as the Vice-Chair for Research and Academic Affairs at University of California, Irvine. For the Department of Veterans Affairs, he was a Senior Research Career Scientist for the Rehab R&D. Throughout his career, Dr. Lee has advised over 100 post-doctoral fellows, many developing into well recognized leaders in orthopaedics and holding prominent positions in professional subspecialty societies, as well as at their academic institutions both nationally and internationally. The primary contribution of Dr. Lee has been the development of research methods and models to biomechanically evaluate shoulder and other joints. Dr. Lee has published over 300 peer reviewed manuscripts and over 500 abstracts in orthopaedic biomechanics. He continues to lecture widely both nationally and internationally. Dr. Lee currently serves as the Director of Research at Congress Medical Foundation in Pasadena, CA.