

## Osteoarthritis of the anterior cruciate ligament and the medial tibial plateau: Public health considerations from a cadaveric model

- H V V L F D , P P R Q H Q  
Rocky Mountain University of Health, USA

Some at-risk populations for osteoarthritis (OA) have been identified yet the literature makes little suggestion regarding precise age of disease onset or preventative strategies to reduce risk for disease onset in various groups. In 2008, the American College of Rheumatology estimated that 37.4% of 60+ years old Americans are affected by knee OA. This analysis suggests that this is largely underestimated. Morphometric analyses of the articular cartilage of the tibial plateau were performed on cadaver specimens using Image Pro software on three age populations: <70 years old, 70-79 years old and 80 years old. The articular cartilage of the medial tibial plateau in 80 years old specimens showed a 1.7-fold increase in surface area degeneration (mm<sup>2</sup>) compared to 70-79 years old specimens (P<0.05). This degradation was compared to donors' reported histories. Data showed that by the 7th decade of life, when patients are in their 60s, articular cartilage degeneration on the tibial plateau had commenced in 100% of specimen. A donor that reported homemaker as an occupation displayed above average medial tibial plateau degeneration (32.33 24.85%) for their age group while simultaneously reporting 6(a)s4 (hMCIh)3 (ad co)12 (mm)4 (etg r)13 (ep)-9 (o)12 (r)-9.9 (t)- ka (en 1

Notes: