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Preoperative Ahlbäck radiographic classification grade significantly influences clinical outcomes of double level osteotomy for osteoarthritic knees with severe varus deformity

Hiroshi Nakayama^{1*}, Ryo Kanto¹, Shintaro Onishi², Kenta Amari³, Ryosuke Ukon³, Toshiya Tachibana¹, Shinichi Yoshiya², Takuya Iseki¹, Shota Morimoto¹ and Tomoya Iseki¹

Abstract

Purpose The purpose of this study was to examine the relationship between preoperative Ahlbäck radiographic classification grade and the clinical outcomes of double level osteotomy (DLO) performed for osteoarthritic knees with severe varus deformity.

Methods The study population comprised a consecutive series of 99 knees (68 patients) for which DLO was performed and follow-up results for a minimum of two years were available. The Ahlbäck radiographic classification system was used to determine the osteoarthritic grade. The following radiological parameters for alignment and bone geometry were measured: mechanical lateral distal femoral angle (mLDFA), mechanical medial proximal tibial angle (mMPTA), joint-line convergence angle (JLCA), and mechanical tibiofemoral angle (mTFA). Clinical results were assessed using the Knee Injury and Osteoarthritis Outcome Score (KOOS) and the International Knee Documentation Committee (IKDC) subjective score preoperatively and at 2 years after surgery. Difference between preoperative and postoperative measurements as well as relationship between Ahlbäck grade and radiological/clinical results were statistically assessed.

Results The average age of the study participants was 60.9 ± 6.2 years and the mean follow-up period was 45.4 ± 15.2 months. Each of the radiological parameters exhibited preoperative abnormal values. Knees with Ahlbäck grade 3 and 4 osteoarthritis exhibited significantly greater JLCA and mTFA than grade 1 knees. Two years post-surgery, all radiological parameter values measured within a normal range. Clinical evaluation showed significant improvement in KOOS after surgery. Analysis of the relationship between Ahlbäck grade and clinical score showed that the 2-year postoperative KOOS scores in grade 3 and 4 osteoarthritic knees were significantly lower than grade 1 knees (with the mean 2-year KOOS scores of 350.0 ± 79.9 , 317.9 ± 78.3 , and 420.2 ± 42.9 , respectively).

Conclusions While DLO may produce significant radiological and clinical improvement in knees with joint space obliteration, Ahlbäck grade 3 and 4 osteoarthritic knees associated with larger JLCA and mTFA showed less satisfactory clinical results compared to grade 1 knees. Level of Evidence: IV case series.

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and Surgery E-Book Kenneth W Hinchcliff, Andris J. Kaneps, Raymond J. Geor, 2013-07-01 Equine Sports Medicine and Surgery provides the most up to date in depth coverage of the basic and clinical sciences required for management of the equine athlete The unique treatment of exercise physiology and training within a clinical context together with detailed review of all diseases affecting athletic horses makes this the most comprehensive text available The book will provide a thorough grounding in the basic physiology of each body system and in particular the responses of each body system to exercise and training that will be separate but highly relevant to the succeeding sections on clinical disorders of each body system The highly respected editors have brought together an internationally renowned team of 50 contributors producing the ultimate reference for veterinarians students horse owners and all those involved in the world of equine athletics High quality artwork including relevant radiographic ultrasonographic CAT scan and MRI images aid understanding and diagnosis Provides a truly international perspective including guidelines pertinent to different geographic areas and racing jurisdictions In depth coverage of the role of the veterinarian in the management of athletic horses Explores the use of complementary therapies Growth, Maturation, and Physical Activity Robert M. Malina, Claude Bouchard, Oded Bar-Or, 2004 This updated edition features three new chapters and current research findings Topics include prenatal growth and functional development motor development thermoregulation obesity in childhood and adolescence and more Frank Leslie's New York Journal, 1856 **Gregory's Pediatric Anesthesia, With Wiley Desktop Edition** George A. Gregory, Dean B. Andropoulos, 2012-02-20 Rev ed of Pediatric anesthesia edited by George A Gregory 4th ed c2002

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Federal Register , 1999-12-17 [Children Today](#) , 1981

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New York Medical Journal , 1913

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