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## Relationships Between

### Relationships Between Knee Valgus Hip Muscle Strength

Main outcome measurements: The authors analyzed correlation coefficients between knee and hip angles, gluteus maximus and medius EMG, and hip-abduction and -external-rotation strength. Results: Hip-adduction angles ( $r = .755$ ,  $P = .001$ ), gluteus maximus EMG ( $r = -.451$ ,  $P = .026$ ), and hip-abduction strength ( $r = .455$ ,  $P = .022$ ) correlated with frontal-plane projections of knee valgus.

Relationships between knee valgus, hip-muscle strength ...

These data suggest that increased knee movement toward valgus may occur when normalized ABD, ADD, EXT, IR, ER, KF, and KE peak torques are relatively lower.

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Females exhibited lower strength values in ABD and ADD, when compared to males, possibly implying a gender predisposition to increased knee motion in the valgus direction.

### THE RELATIONSHIP BETWEEN HIP STRENGTH AND VALGUS KNEE ...

Relationships between Knee Valgus, Hip-Muscle Strength, and Hip-Muscle Recruitment during a Single-Limb Step-Down in Journal of Sport Rehabilitation John H. Hollman , Barbara E. Ginos , Jakub Kozuchowski , Amanda S. Vaughn , David A. Krause and James W. Youdas

Relationships between Knee Valgus, Hip-Muscle Strength ...

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Knee Valgus Relationships

between knee valgus, hip-muscle strength... The relationship

between hip-muscle function and knee valgus might be particularly important. The gluteus maximus

(GMax) extends and externally rotates The authors are with the Program in Physical Therapy,

Mayo Clinic, Rochester, MN

55905. Knee Valgus and the Hip

Muscles105

Relationships Between Knee

Valgus Hip Muscle Strength

The relationship between hip muscle function and dynamic knee valgus is therefore potentially very important, this motion is controlled principally by two muscles: gluteus maximus (G Max) and...

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### Relationships Between Knee Valgus, Hip-Muscle Strength ...

Evidence on a link between hip strength and dynamic knee valgus is conflicting. • Strength testing protocols and movement tasks assessed vary. • Study designs using single leg, ballistic landings more likely to show correlation. • The relationship between hip strength and dynamic knee valgus may be task dependent.

The relationship between hip muscle strength and dynamic ... Studies investigating the relationship between hip muscle strength and dynamic knee or lower extremity valgus during movement tasks among asymptomatic females over 18 years old were included.



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(PDF) The relationship between hip muscle strength and ...

Relationships Between Knee Valgus, Hip-Muscle Strength, and Hip-Muscle Recruitment During a Single-Limb Step-Down John H. Hollman, Barbara E. Ginos, Jakub Kozuchowski, Amanda S. Vaughn, David A. Krause, and James W. Youdas  
Context: Reduced strength and activation of hip muscles might correlate with increased weight-bearing knee valgus.

Relationships Between Knee Valgus, Hip-Muscle Strength ...  
Results: There were no significant differences in hip muscle strength between the valgus group and the varus group during the forward lunge movement. No significant

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Knee Valgus Hip Muscle Strength  
correlation was found between the strength of the assessed hip muscles and the amount of movement into valgus/varus.

Relationship between hip strength and frontal plane ...

Squat strength seems to be the best predictor of knee valgus and was consistently related to hip adduction. Isometric and eccentric measures demonstrated few significant correlations with hip and knee excursion while demonstrating a low-to-moderate relationship. Hip and knee flexion and rotation do not seem to be related to strength.

Relationship Between Selected Measures of Strength and Hip ...

The purpose of this study was to

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determine the relationship between hip and knee strength, and valgus knee motion during a single leg squat. Thirty healthy adults (15 men, 15 women) stood on their ...

(PDF) Relationship between Hip and Knee Strength and Knee ...

**OBJECTIVE** To systematically review literature investigating the relationship between hip muscle strength and dynamic lower extremity valgus during movement tasks in asymptomatic females.

**METHODS** Four databases (CINAHL, SPORTDiscus, Embase and Ovid MEDLINE) were searched in February 2017.

Studies investigating the relationship between hip muscle strength and dynamic knee or

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[PDF] The relationship between hip muscle strength and ... Static alignment and pelvic drop significantly affect relationships between KAM and knee OA symptoms; varus knees and pelvic drop  $3^\circ$  should be considered using KAM as the knee OA treatment target; the relationships between KAM and knee OA symptoms become confusing according to stratified OA severity. Strengths and Limitations. Sample size for knee OA patients with varus knee was large; solid evidences show the different relationships between KAM and knee OA symptoms according to ...

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### The Relationship between Knee Adduction Moment and Knee ...

**RESULTS:** The median preoperative HKA varus angle of this study cohort was  $174.1^{\circ}$  ( $170.8, 176.2^{\circ}$ ). The median knee valgus angle after simulated osteotomy through the Fujisawa point was  $2.4^{\circ}$  ( $2.1, 2.7^{\circ}$ ). The valgus angle was positively correlated with the tibial plateau width ( $r = 0.23, p = .013$ ) and preoperative HKA angle ( $r = 0.32, p < .001$ ).

What is the relationship between the "Fujisawa point" and ...  
Neuromuscular control of the hip abductors is important to prevent excessive knee abduction moment and knee valgus. Potential associations between altered

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neuromuscular control of gluteus medius (GMED) and PFP has been frequently suggested; however, there is limited literature on how neuromuscular control of the GMED is related to the knee abduction moment or knee valgus.

## THE RELATIONSHIP BETWEEN GLUTEUS MEDIUS ACTIVATION AND ...

Numerous cross-sectional association studies show an association between gluteus muscular strength and dynamic knee valgus in patients with patellofemoral pain. In spite of this biological plausibility, many evidences challenge the direct relationship between these factors.

Do hip muscle weakness and

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Knee Valgus, Hip Muscle ...

Very little is known about the relationship between hallux valgus and alignment of the proximal joints. The aims of the present study were to determine the extent to which lower extremity alignment characteristics of the hip, knee, ankle, and foot were related to the manifestation of hallux valgus and to identify variables predicting its development in women.

Relationship between lower extremity alignment and hallux ...

There were no significant relationships between peak torque and standing knee valgus or peak knee valgus. When considering all of the strength variables collectively in a factor analysis, a

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Regression analysis showed that only the knee factor ( $r^2 = 0.22$ ,  $SEE = 7.85$ ) was a significant predictor of frontal plane knee motion.

THE RELATIONSHIP BETWEEN  
HIP AND KNEE STRENGTH AND  
VALGUS ...

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