

UVA Dynamic Bending Corridors for Mid-Thigh, Knee, and Mid-Leg

Explained by JARI instead of UVA

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Overview

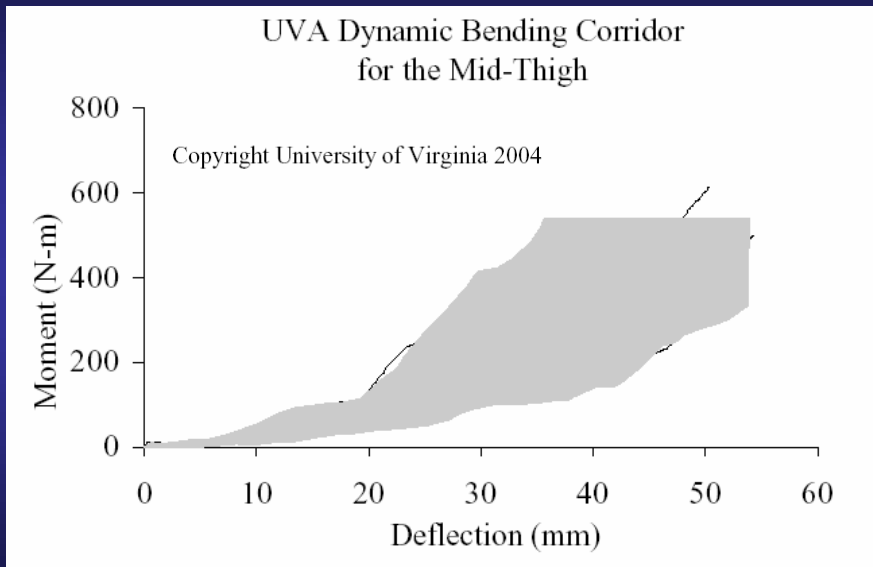
This report contains corridors for the leg, thigh, and knee developed from biomechanical tests conducted at the University of Virginia. Test data has been recorded, filtered, and processed in accordance with SAE J-211. To account for geometric differences among the specimens, dimensionless scaling (c.f., Eppinger et al. 1984) has been performed where the normalization value used have been for an adult the size of a 50th percentile male. Wherever possible, local measures of bone dimensions as opposed to overall stature have been used for this assessment. Subsequent to scaling, corridors have been developed using the scheme proposed by Lessley et al. (2004). The corridors are intended to be works in progress with more data points to be added during 2004 and a subsequent update to be published (Ivarsson, 2004). In the interim, questions related to the procedures, data, or interpretation should be directed to

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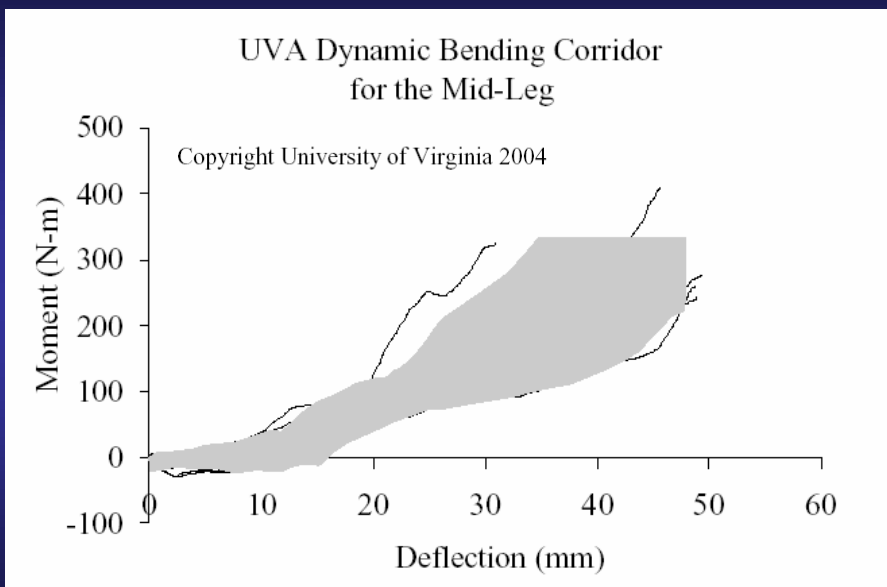


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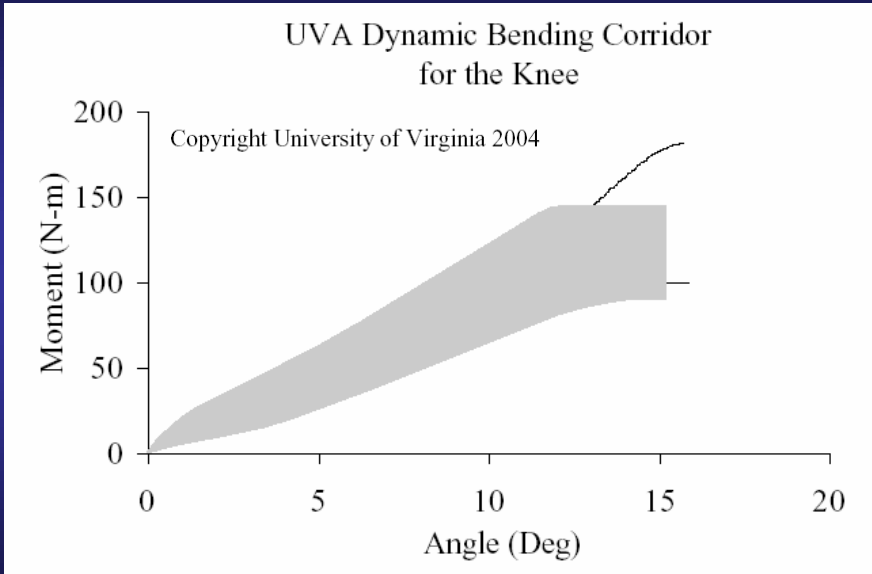
Mid-Thigh



Mid-Leg



Knee



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