

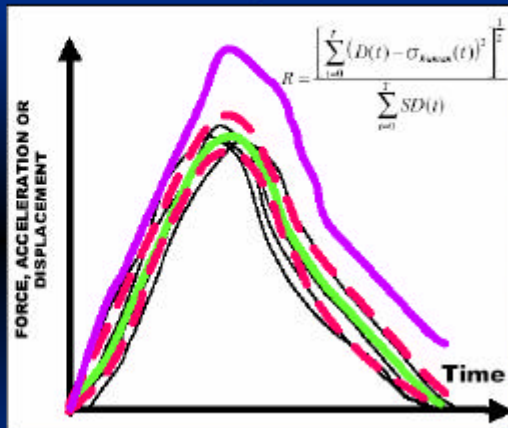
Explanation of the Bio-Rating Method of Maltese M. R. (NHTSA) and Application the Method to Flex-PLI 2003R using UVA Dynamic Bending Corridors for Mid-Thigh, Knee, and Mid-Leg

JARI

Bio Rating Method of Maltese M. R. (NHTSA)

Dummy-to-Human Comparison

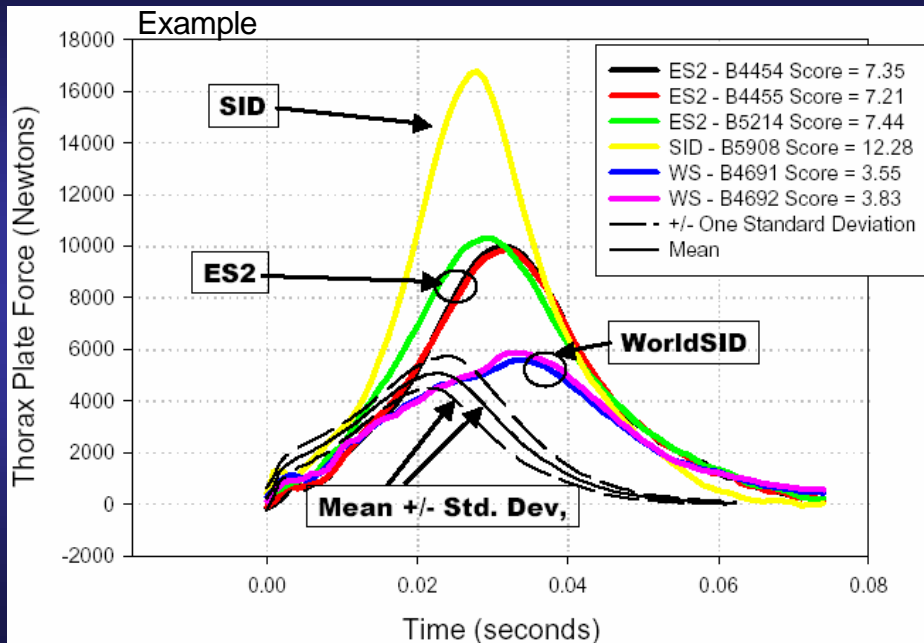
- Human surrogate and dummy response signals are overlaid
- The dummy response (D), surrogate mean ($\bar{\cdot}$), and standard deviation (SD) are then combined to quantify (R) how well the dummy matches the cadaver.



Maltese M. R. (NHTSA)

Rating Dummy Biofidelity

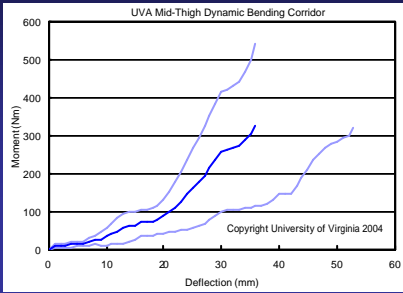
$0 \leq B \leq 1$	Excellent
$1 < B \leq 2$	Good
$2 < B \leq 3$	Moderate
$3 < B$	Poor



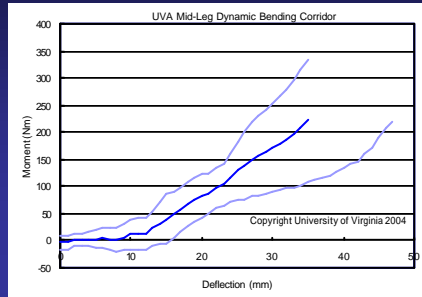
UVA Dynamic Bending Corridors

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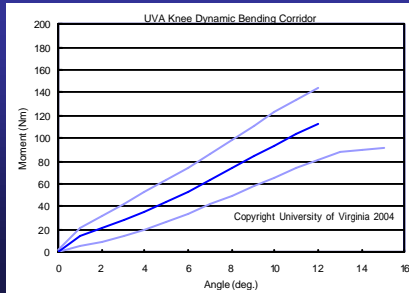
Thigh



Leg

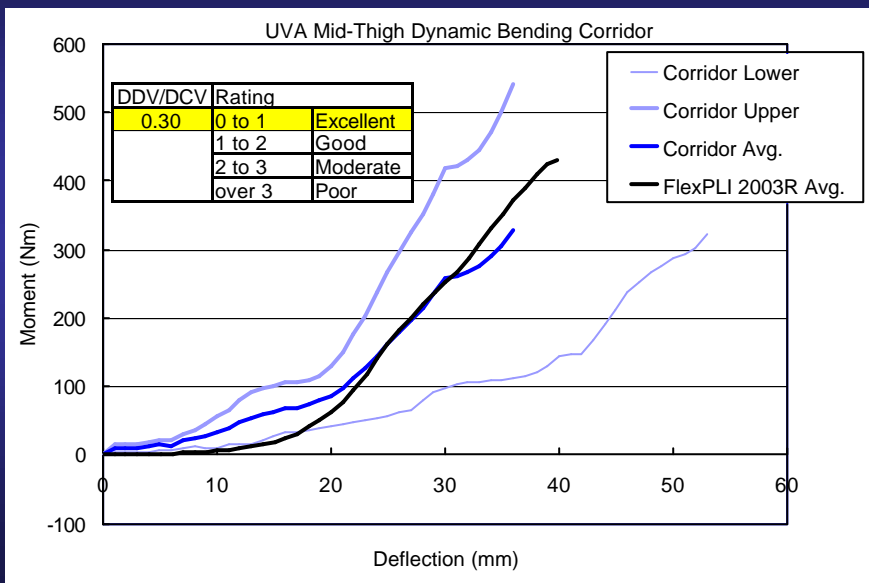


Knee



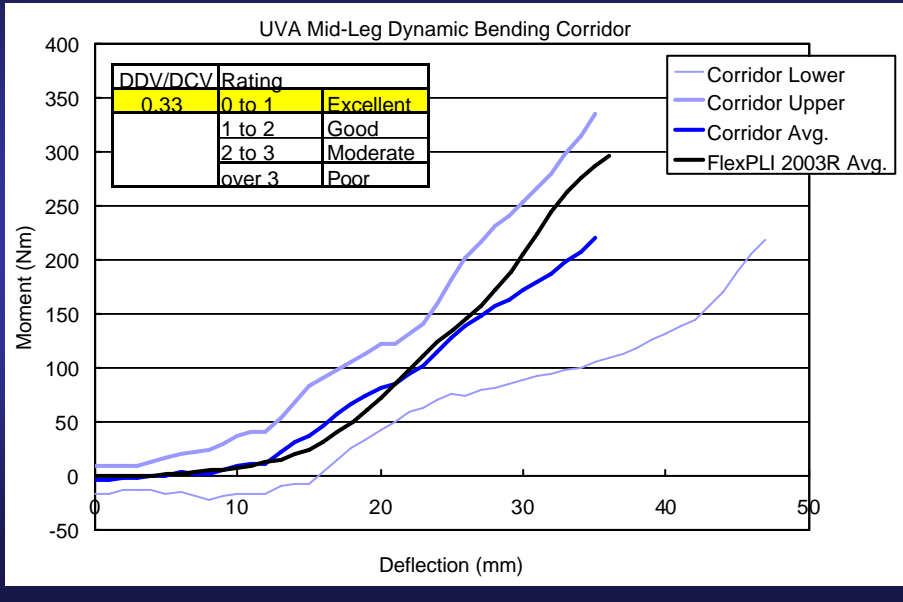
Bio-Rating of FlexPLI 2003R for UVA Dynamic Mid-Thigh Bending Corridor

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Bio-Rating of FlexPLI 2003R for UVA Dynamic Mid-Leg Bending Corridor

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Bio-Rating of FlexPLI 2003R for UVA Dynamic Knee Joint Bending Corridor

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