

A simplified model of the knee coronal plane alignment

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A clinical case in which a patient exhibits knee valgus after a hip replacement motivates research into what caused this previously asymptomatic condition and, specifically, into how changing the morphology of the hip could cause varus or valgus depending on the knee morphology as classified by CPAK.

We have developed a simplified model of the knee, which allows for quick parametric iteration over the CPAK input space, showing which type of knees are more vulnerable to extreme valgus (CPAK III) and varus (CPAK VII) due to their morphology.

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