## humotech



# PROSTHETIC FOOT EMULATION CASE STUDY

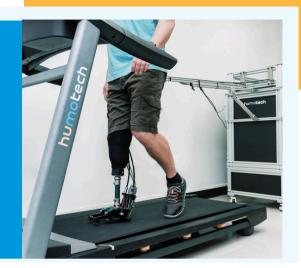
Leveraging robotics to enable rapid test-driving of prosthetic feet\*

### Challenges in Prosthetic Care

- Lack of data and processes to enable personalized, evidence-based care and reimbursement decisions for individuals with lower limb amputation
- Quality of care is reliant on clinician skill and experience, and many clinicians are retiring and/or overworked
- Prosthetic users walk slower and fall more often than their peers, and some prosthetic devices are even abandoned

#### Goals for Evidence-Based Care

- Utilize data to precisely optimize patient performance and provider financial outcomes
- Balance costs and benefits of advanced prosthetic foot technologies
- Engage patients actively in prosthetic design and selection process
- Rapidly explore a wide range of prosthetic foot options
- Maintain standardized and equitable care across all patients



### **The Humotech Solution**

Caplex<sup>™</sup> is programmed to mimic the mechanics of clinically-available prosthetic feet. While the patient walks, the provider can select different foot options from our software interface. In this way, patients can rapidly testdrive different foot options. Both subjective and objective measures can be assessed across a wide range of potential solutions. Emulation technology enables trialing to occur much more quickly and economically than if the actual feet themselves were ordered, fit, and tested.

#### **Potential Benefits of Emulation**

For patients who may otherwise struggle to access more advanced foot options, emulation can provide the missing link: experiential data justifying medical necessity. Leveraging this data could improve a provider's ability to be fairly reimbursed. Additional benefits could include: improved customer satisfaction, reduced effort in drafting justifications, improved trust with payors, and more .

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