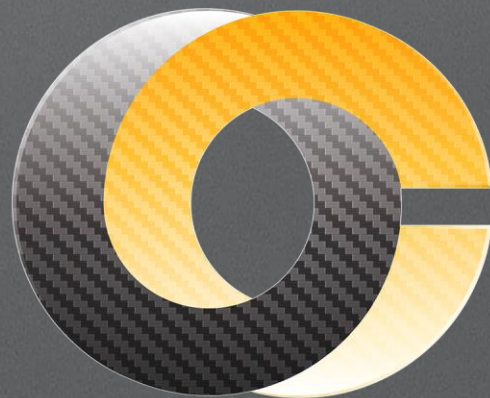




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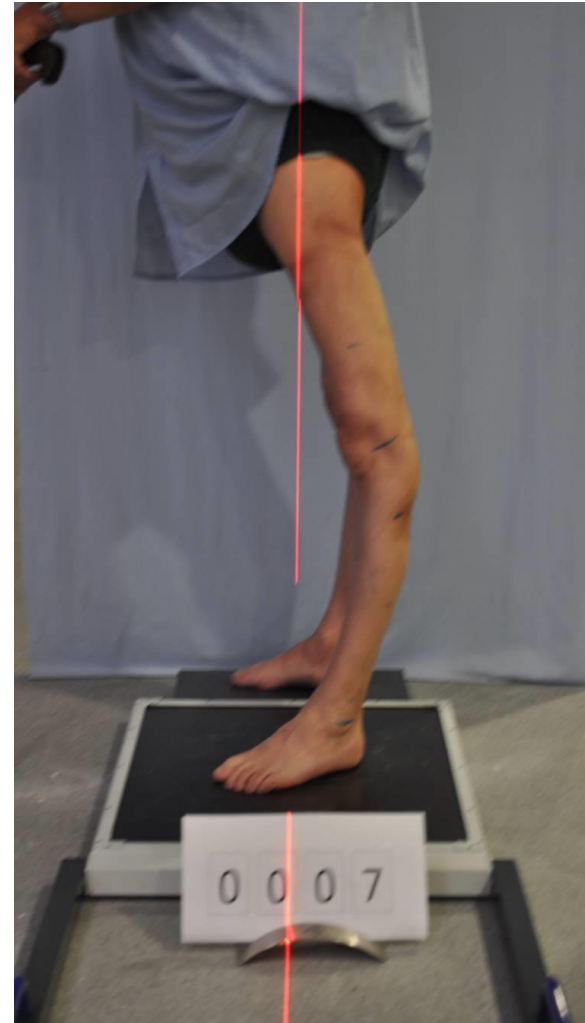


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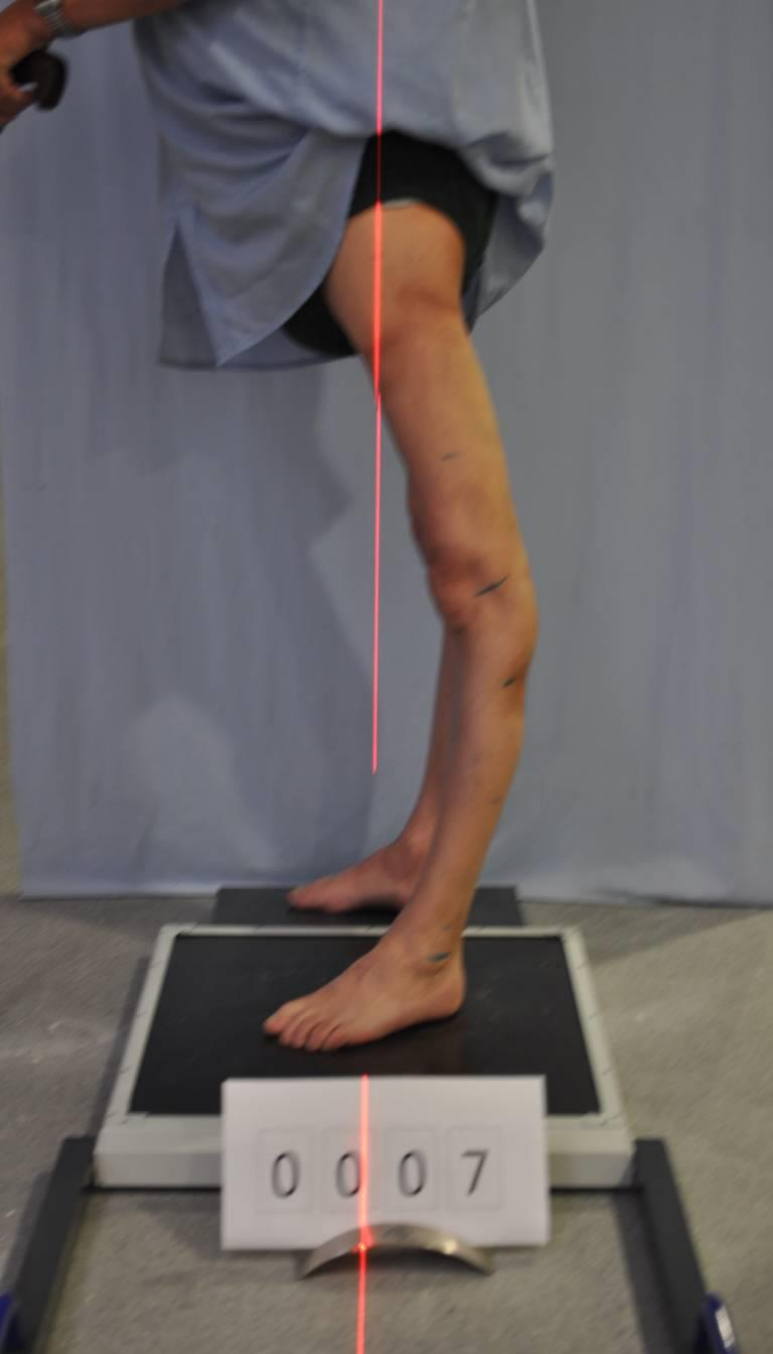
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Problem:
We take
situations like
this...



Try to avoid using
hyperextended
casts if at all
possible



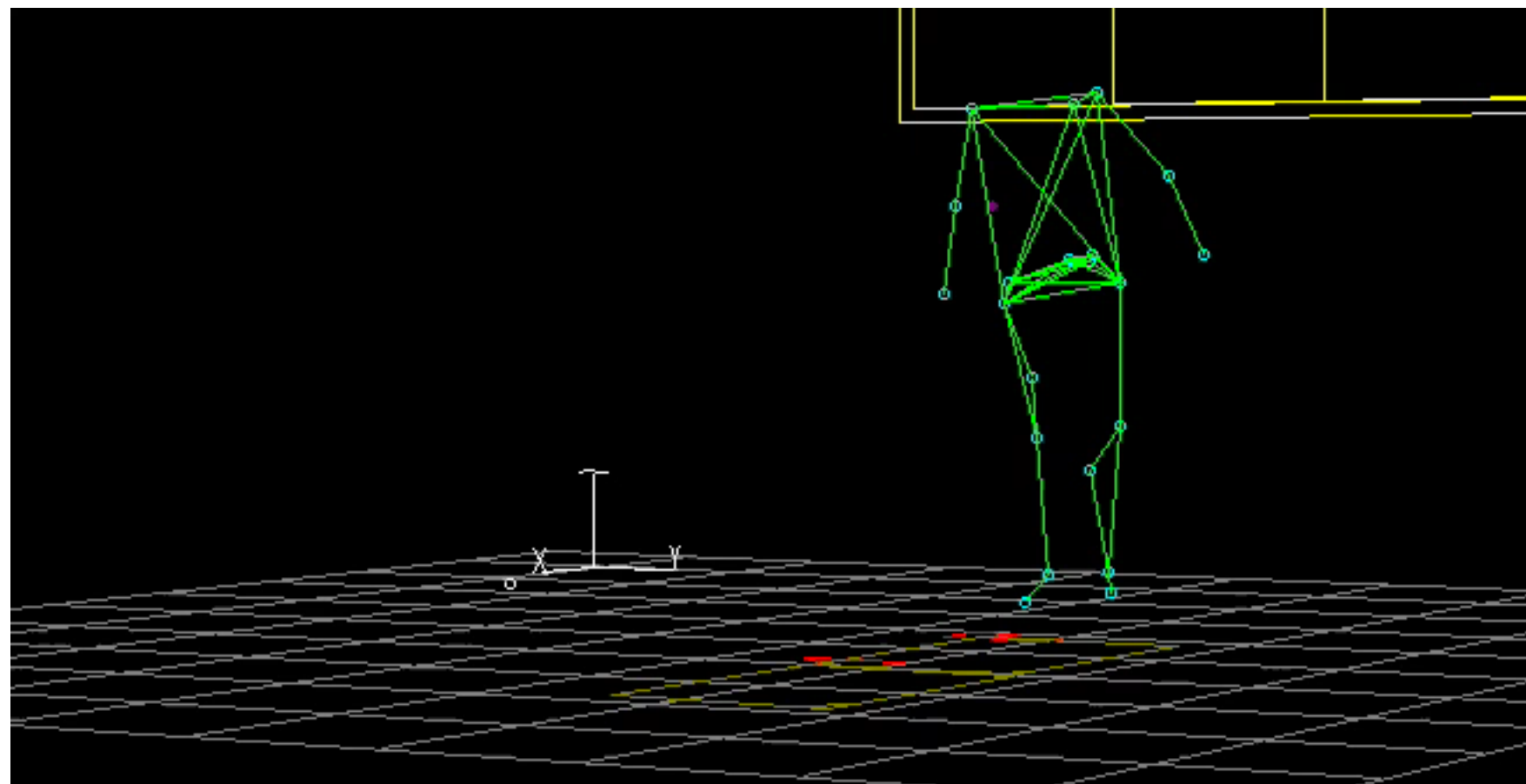
And ask a (Potentially) grumpy
guy, 200 miles away to make
this...

Be careful about $\frac{3}{4}$
footplates if you are thinking
about any form of GRF
manipulation



Or this...

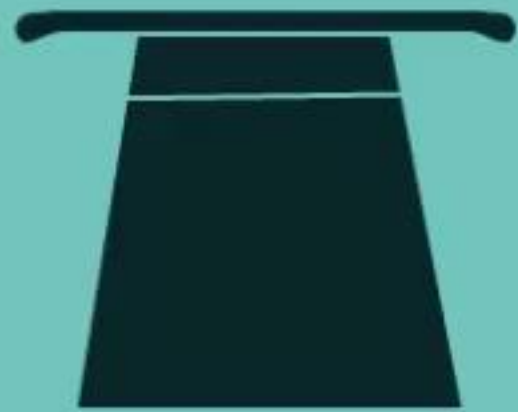




To this...













“Please make KAFO/AFO to
cast”

...

What other pertinent info
should we receive?

Discuss 😊

Ring lock

The oldest method for locking a simple hinge joint



Disadvantage

Needs two hands to open

Easily soiled

Wear and tear on clothing

The lock may get wedged too tightly

Advantage

The lock is secure if the lock ring is strong enough.

Swiss/Bale (Covered) lock

The most commonly used joint
Bale is approx 40 years old

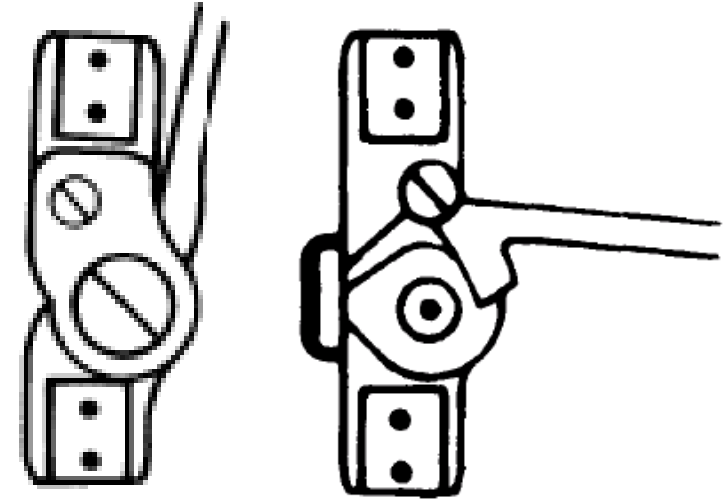
Disadvantage

Can be operated by external influences

Wear

Accumulation of debris

Open (Swiss) can damage clothing/fingers



Advantage

Function with one hand possible

Smooth Function

Can be opened under load

Bar Lock

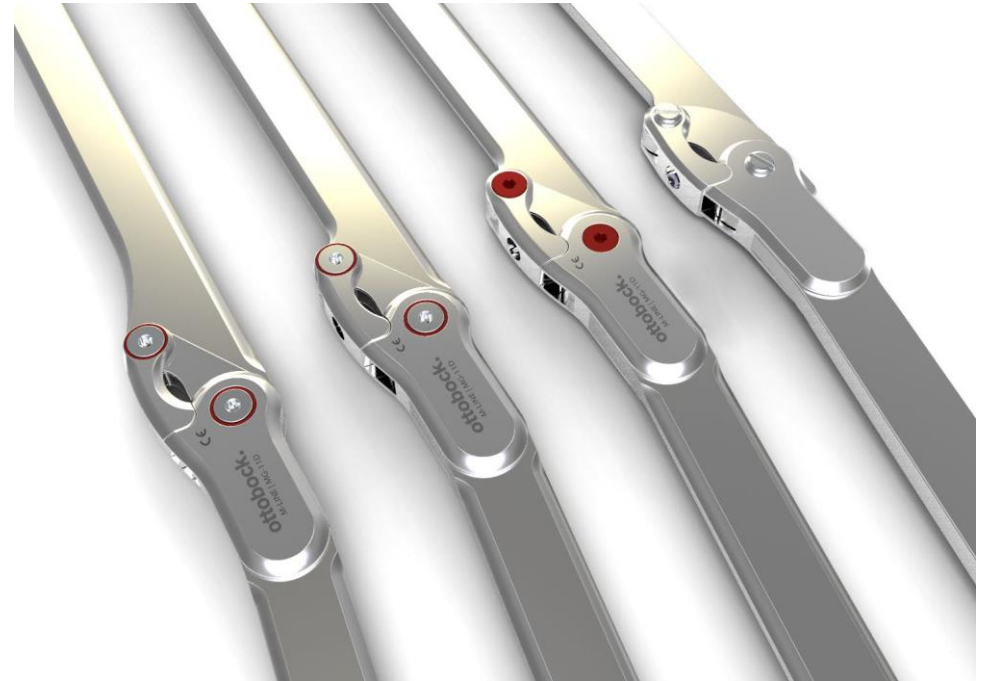
The Strongest Lock

Disadvantages

- Need full extension to lock/unlock
- Long locking mechanism
- Can be influenced externally

Advantages

- Positive
- Compression
- Full Width Lock
- Reduced wear



Wedge Lock

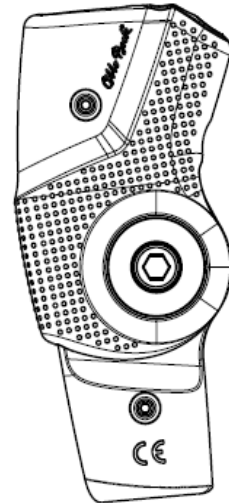
The latest type of Joint

Disadvantages

- Need full extension to lock/unlock
- Long locking mechanism throw
- Locking surface wear

Advantages

- Positive
- Improve
- Clothing friendly
- Stay clean



Posterior Offset

The most adaptable Joint

Disadvantages

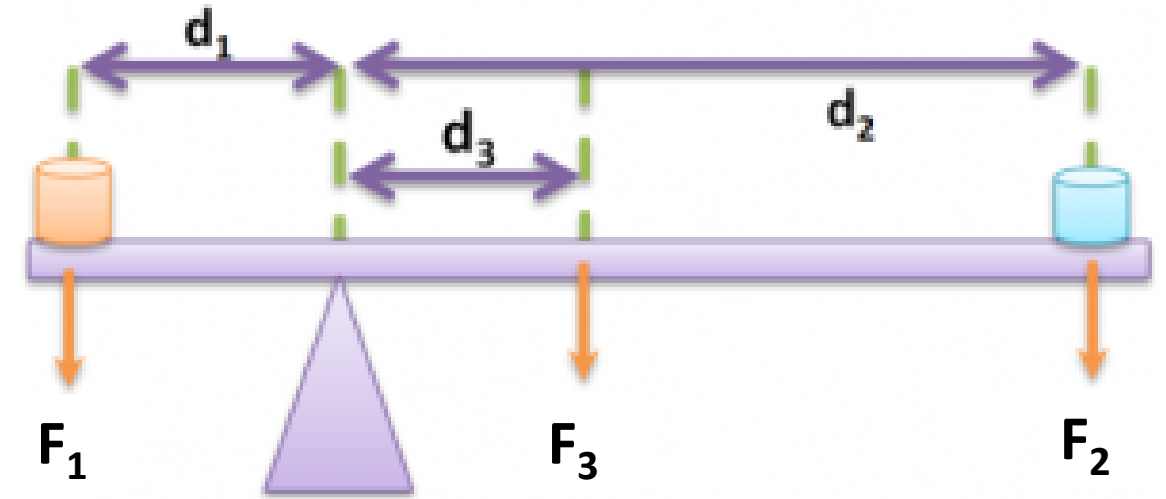
- Needs fuller assessment
- Relies on GRF
- Differential motion
- Increased torsion (potential)

Advantages

- Normalised gait
- GRF Reliant
- Needs Full Ax
- Lockable?



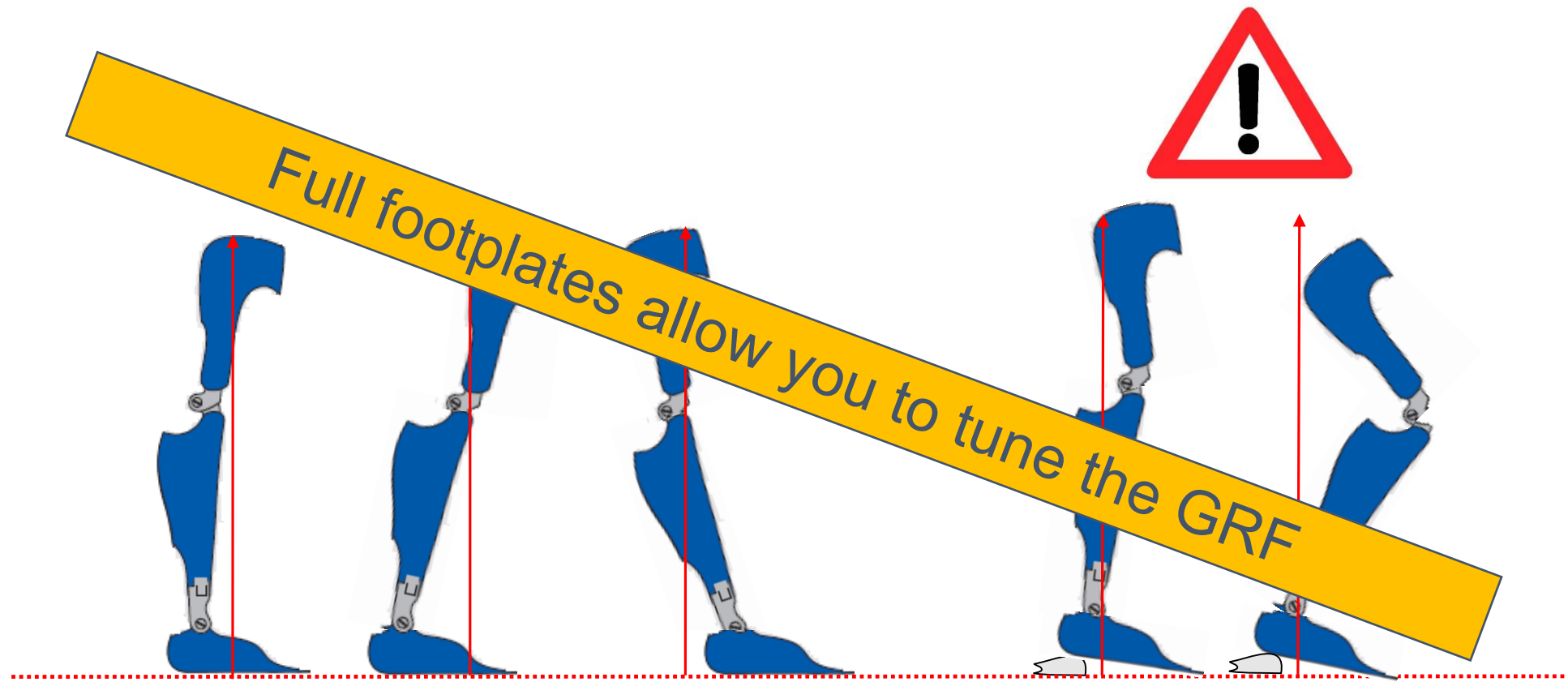
For every action there is an equal and opposite...

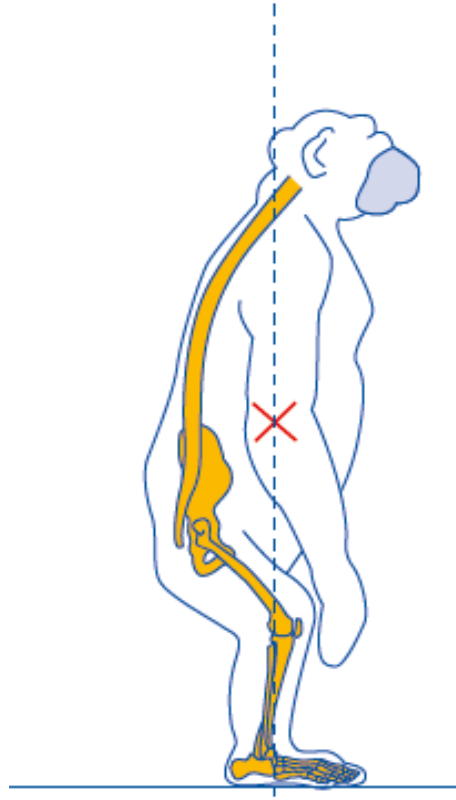
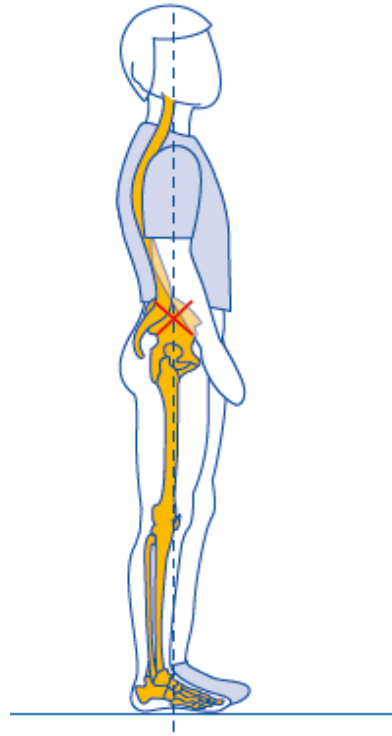


Lasar Posture Time

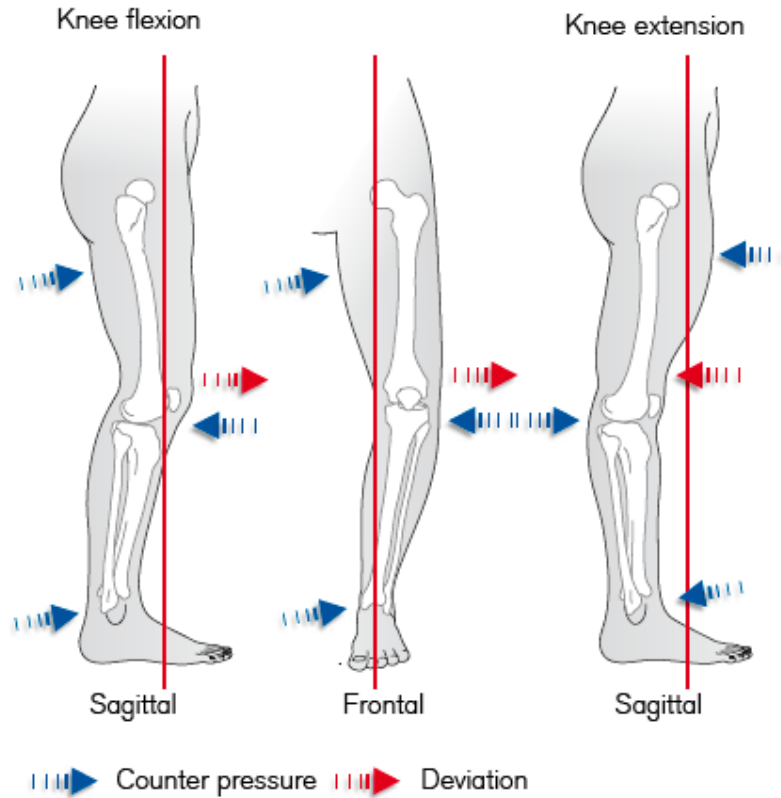
Posterior Offset

The most adaptable Joint



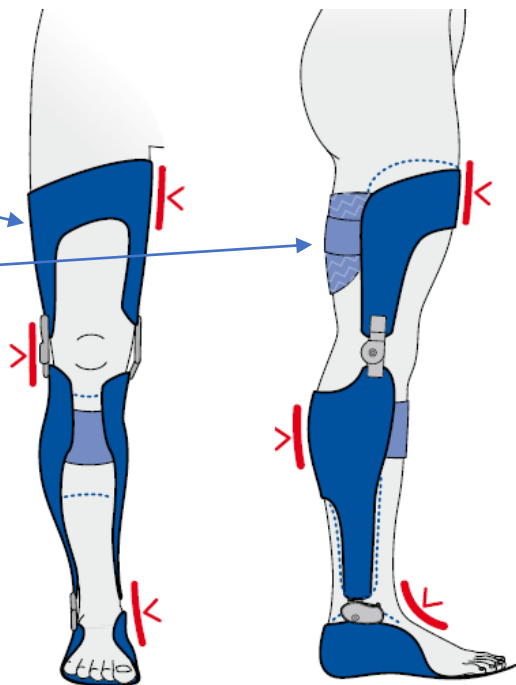


Corrections in the frontal and sagittal plane

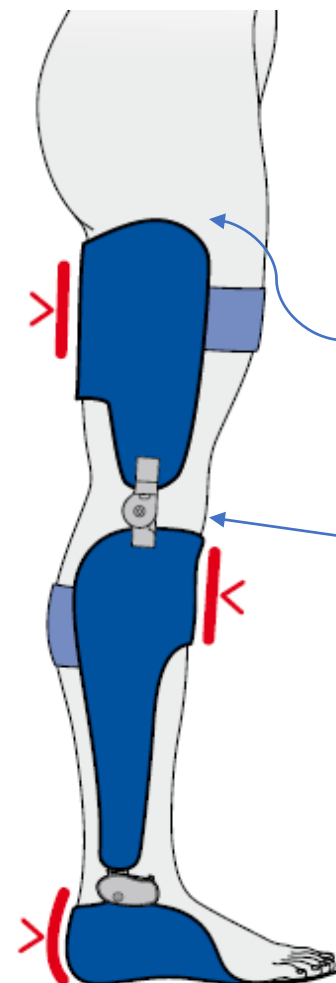
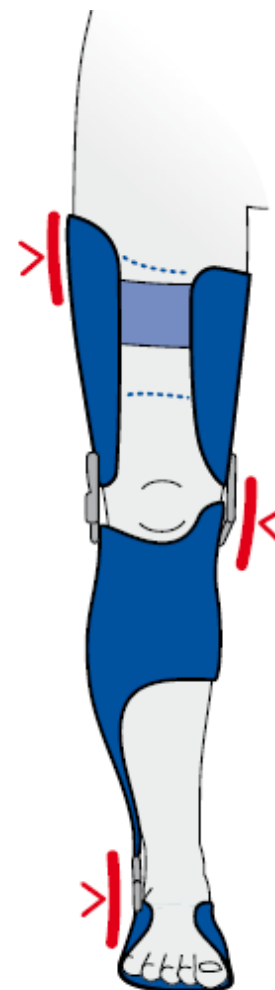


Why is this Important?

Good
for
sitting



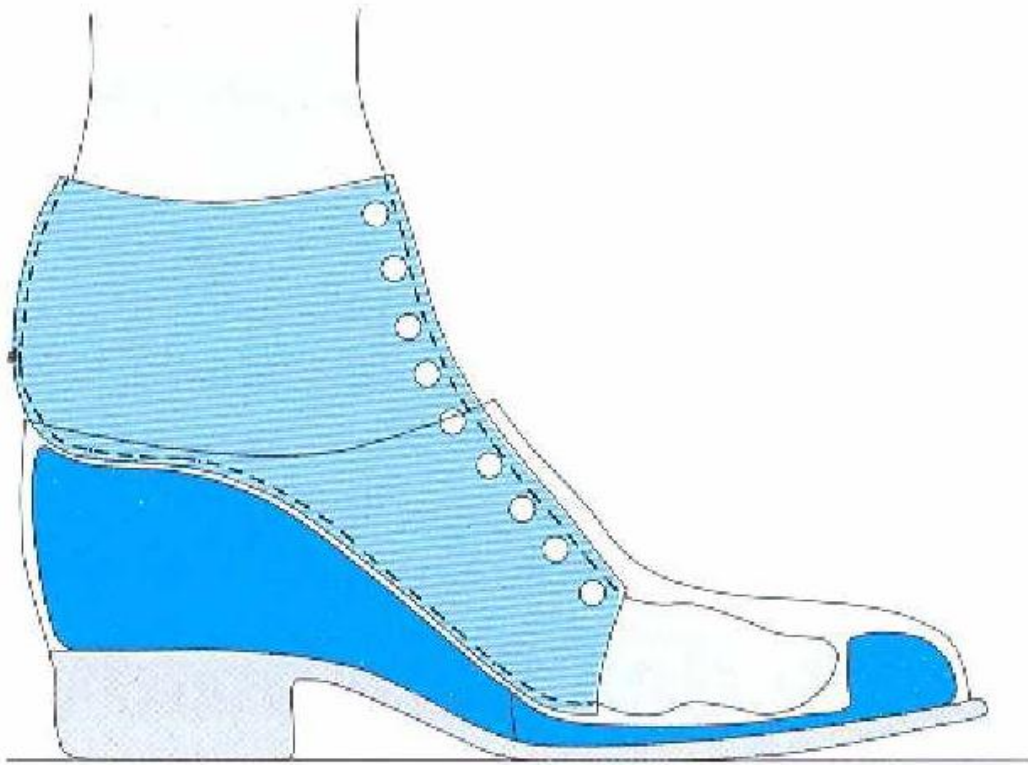
Comfort, Habits and
patient wishes are still
important



Good for
flexion control
if well rectified

Awkward to
don for some

- Orthese
- Druckpunkt
- Gurt
- Gelenke
- Rückseitiger Verlauf
der Orthese



What does this slide show?

Shank Dependence/reflection

Toe Pitch

Waist

Raise

What does it show?

Why is this Important?



Freherly
Mod...Roll up
some plaster
and put it
cuboid notch



If you wish to achieve a given and assessed correction using this technique,
then just stick it into the shoe and cast/bear weight over it!
Room permitting



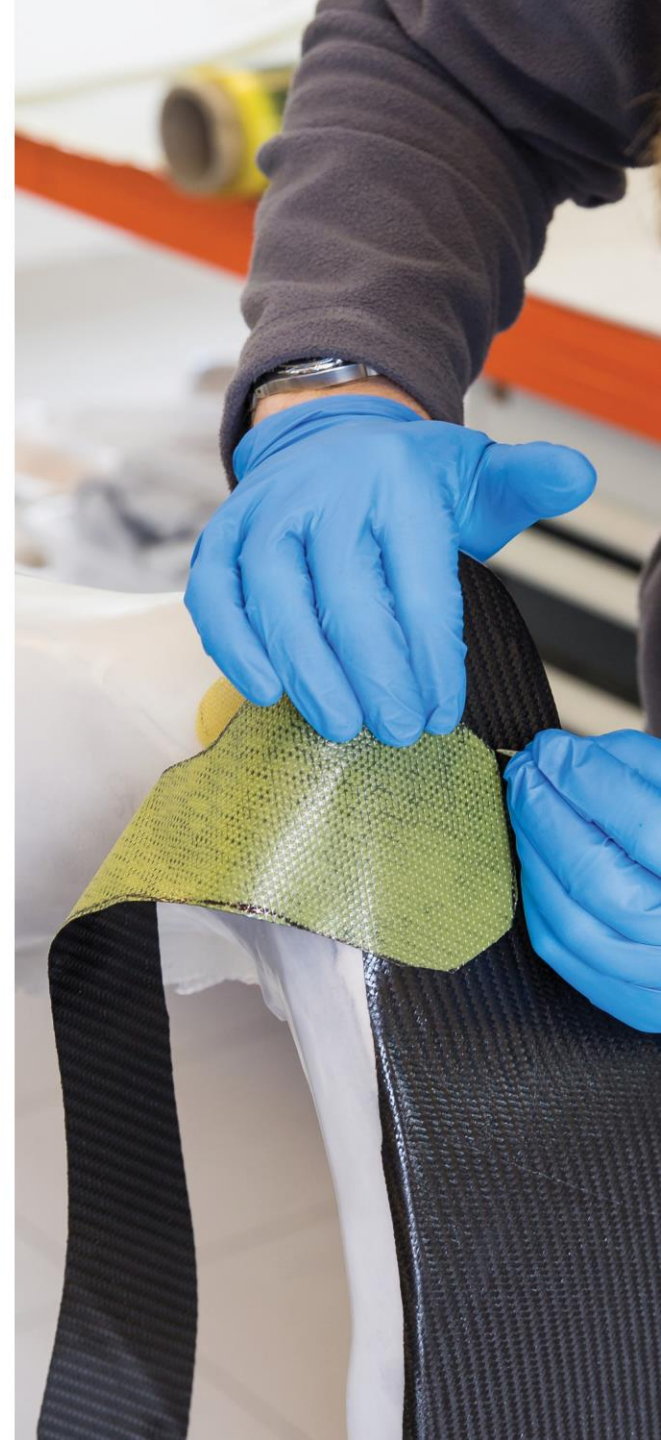
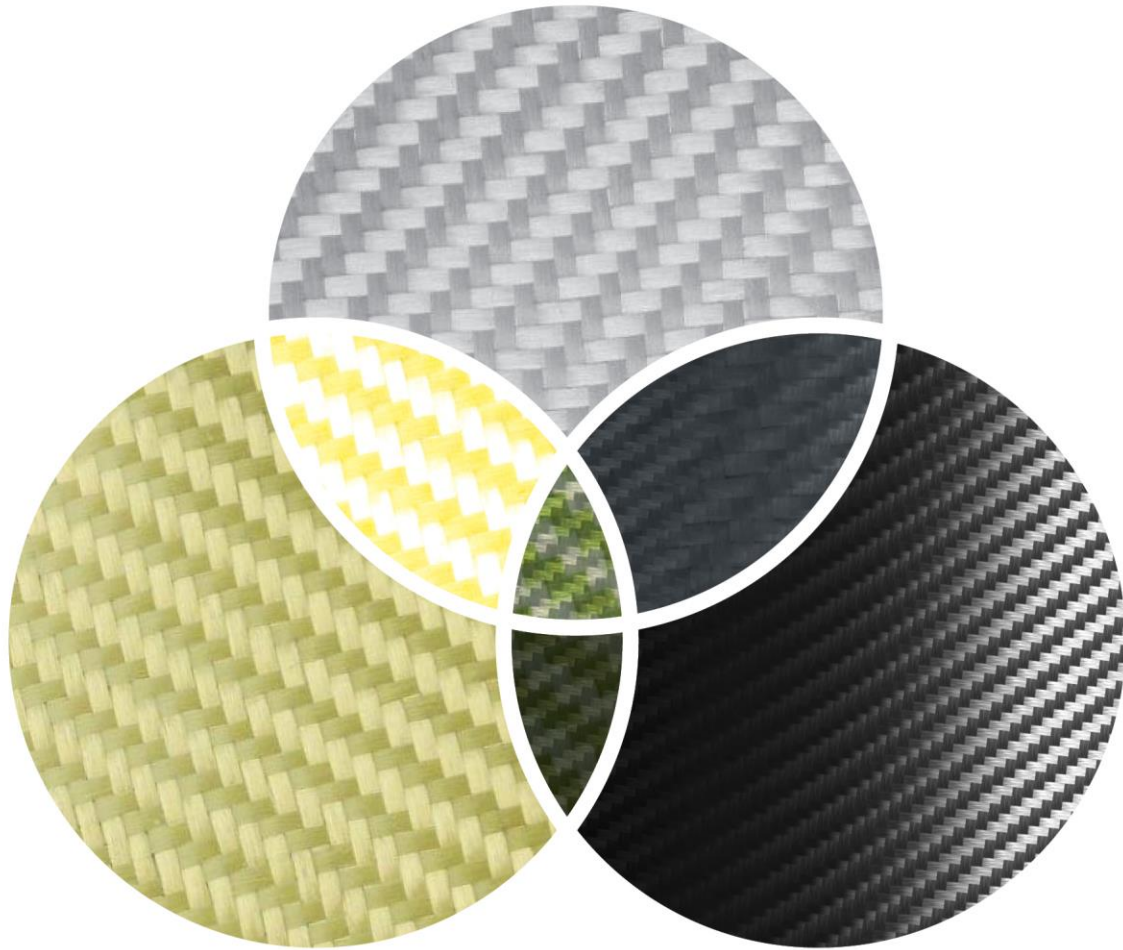
Wedging too

But you may not need as much as you think

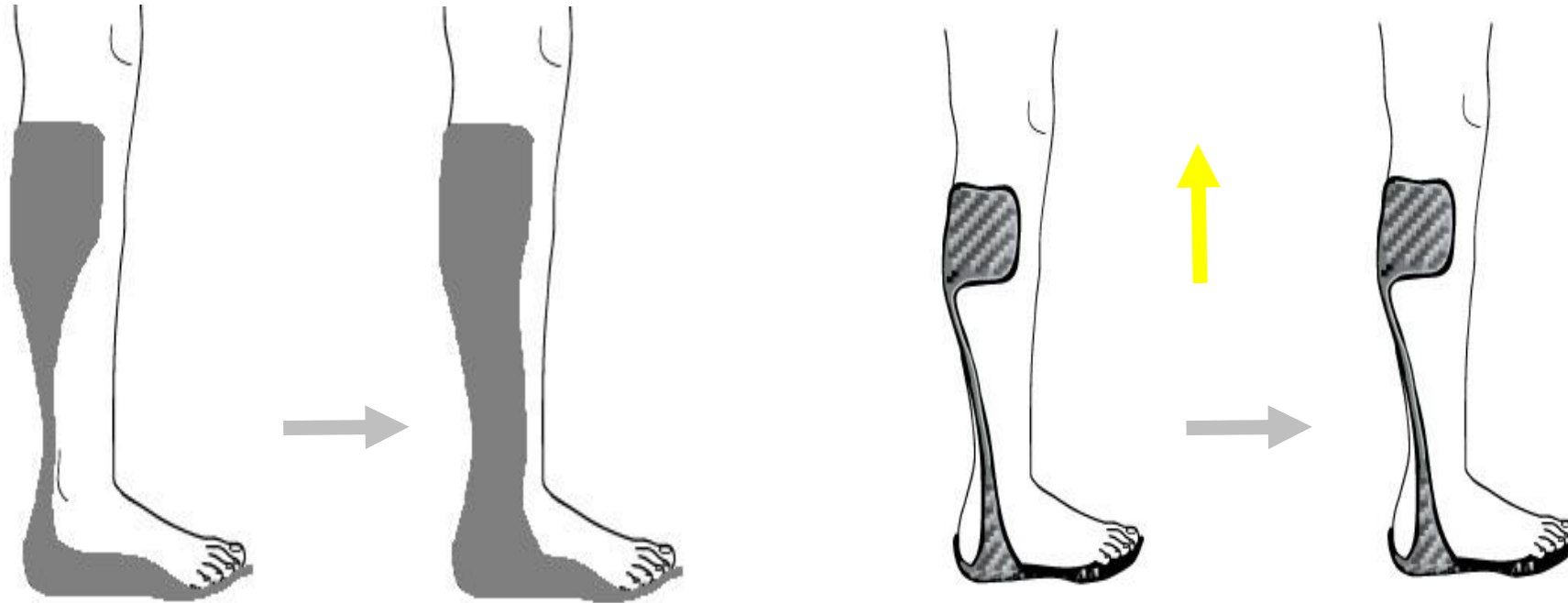




MIX IT UP



Trim Line Optimisation



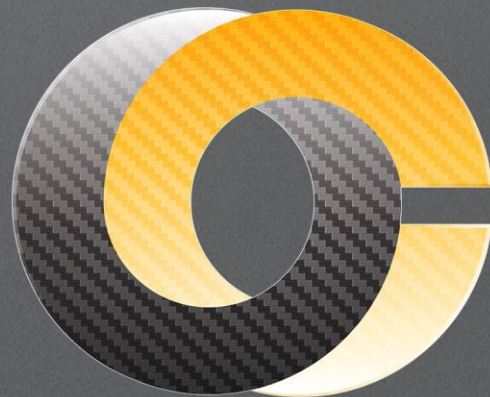
Summary
Thoughts

Q & A





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