

PROSTHETICS

A prosthesis is a device that replaces ~~the function~~ of a missing body part & can be internal or external. with the aim of restoring normal function.

Ideal prosthesis Function ✓ Easy to understand
 ✓ Meets users needs

Confort — Fits well
— Easy to put on & take off
— Light weight & adjustable

PARTS Socket / interface

Suspension mechanism $\rightarrow$ Standard section
 $\rightarrow$ Elastomeric section

Polen / Polen

Articulating jt

Articulating it
Terminal device $\rightarrow$ Active $\rightarrow$ Myoelectric
 $\rightarrow$ Passive

Knee articulations

Stance phase $\rightarrow$ Elderly
Hydraulic $\rightarrow$ Young / active
Constant friction $\rightarrow$ Peds
Polycentric $\rightarrow$ fast walking
Manual locking

TT Shortest
Shortest 8cm
Ideal 12

Fem
shortest Gen belu PR
largest 15m above time

Terminal device

① Non energy storing = SACH

- Single axis foot
- Multi axis foot

② Energy storage

③ specialised

Cx of amputation

Dermatological problems

Phantom sensation

Phantom pain

Mirror Tx

Painful nerves

Chole syndrome By socket 'orange peel appearance'

↑ energy requirement in walking

↳ ↑ wt gain

↑ Cardiovascular risk