**Adjustable Carbon Fiber Pediatric Prosthetic Foot**

Many children and infants today face the unfortunate situation of deficient lower extremities. The Center for Disease Control and Prevention estimates that each year about 1 out of every 10,000 are born with an undeveloped limb. Our team designed a prosthetic foot that is specifically marketed to this young group of pediatric users. It is adjustable in both length and stiffness to accommodate the user’s growth for two years, drastically reducing costs.

**Currently Available Prosthetics**
- Patient growth results in a new prosthesis every 6-10 months.
- Little to no stiffness adjustment
- Current feet offer little energy return and limited deflection
- Heel and toe spring durability issues with fatigue and failure

**Our Prosthetic’s Solutions**
- Adjustable length for prolonged use up to two years
- Stiffness adjustment plates
- Carbon fiber toe for increased energy return and deflection
- Designed to last two years, verified by static and dynamic testing

**PRODUCT LIFESPAN**

- **6 Months**: New Foot & Foot Shell
- **12 Months**: New Foot Shell & Adjustment
- **18 Months**: New Foot Shell & Adjustment
- **24 Months**: One Foot + 3 Foot Shells

**Approximate Total Cost:**
- **$820**
- **$2,025**