



PHYT 880: PEDIATRIC ORTHOSES

Child & Family Assessment
Martha Kalisz

OBJECTIVES

The student will...

- ❖ Be able to describe various, commonly prescribed pediatric orthotic devices
- ❖ Consider multiple joints and points of control for different orthoses
- ❖ Understand indications for various pediatric orthoses
- ❖ Be able to perform a gait assessment and acknowledge changes pre- and post- orthoses

GENERAL PRINCIPLES

Least restrictive¹

Function¹

Customize it!¹

- Custom vs Prefabricated

Build UP¹



CONSIDERATIONS

Stability vs Adjustability

Durability

Functional needs

Anatomy

- ❖ Alignment
- ❖ Tone
- ❖ Boney prominences

Design/Materials

- ❖ Straps, pads, trim lines, shoes
- ❖ Off the shelf vs custom



FOOT ORTHOSIS

Assists

Arch alignment¹

Stance alignment¹

Resists

Nothin'





FOOT ORTHOSIS

Indications

Pronation¹

Low tone¹⁹

Sensory issues¹

Customized or prefab

UCBL

DAFO 5 AND 7

Assists

Arch alignment¹

Stance alignment: sagittal and transverse plane¹

Sensory integration²

Resists

Foot flexibility^{1,2}

UCBL

Indications

Plantar fasciitis¹

Excessive pronation¹

Metatarsus adductus¹

Low tone²

Developmental delay²

Poor proprioception²

