

Adult Injury

 Friend's dad also misses footing on other route and rolled his ankle



WATIONWIDE CHILDREN'S Wiren year child rende a buspitad, everything usatters"

How Are They Different?

MATION WIDE CHILDREN'S

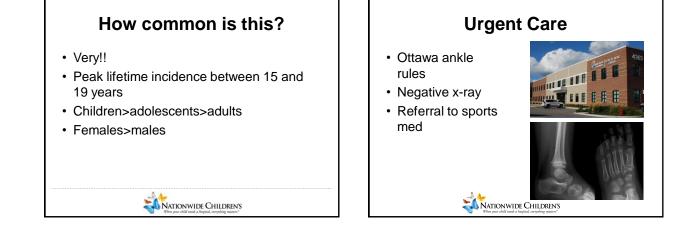
Pediatric

- Risk of physeal injury

 Risk of growth arrest, angular deformity, pain, disability
- Growth plate fusion
 ages
- Females: 16-17 years
 - Males: 18-19 years

Adult

 Decreased frequency in this population compared to younger

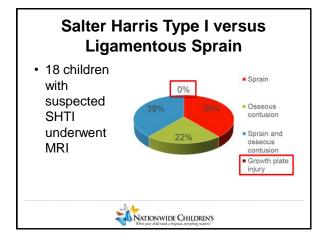


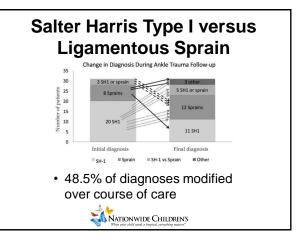


Salter Harris Fractures

SHTI is a clinical diagnosis
 Growth plates are radio transparent











Factors of Unfavorable Prognosis

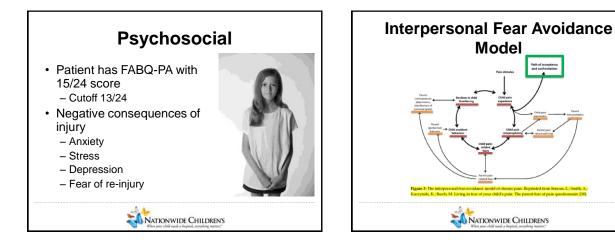
- Controllable
 - Dynamic postural control
 - Hip joint kinematics
- Uncontrollable
 - Sports participation at high level
 - Being a young male
 - Increased BMI
 - Greater body height



Factors of Unfavorable Prognosis

NATION WIDE CHILDREN'S

- Controllable
 - Dynamic postural control
 - Hip joint kinematics
- Uncontrollable
 - Sports participation at high level
 - Being a young male
 - Increased BMI
 - Greater body height

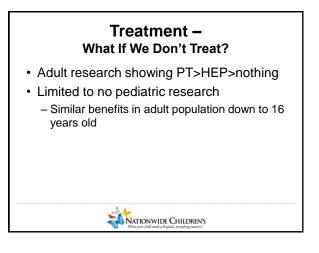




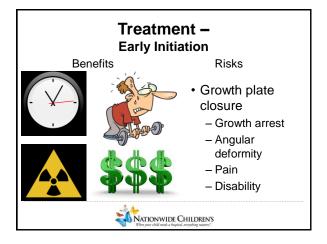


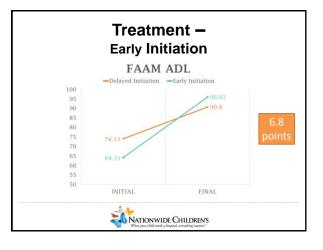


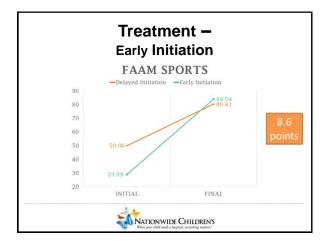


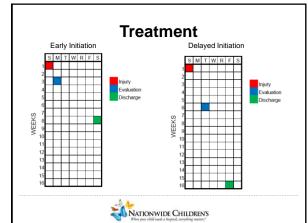




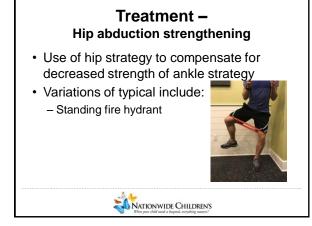












Treatment – Hip abduction strengthening • Use of hip strategy to compensate for decreased strength of ankle strategy • Variations of typical include: - Standing hip glute series • Event • Event • Event • Event • Use of hip strategy to compensate for decreased strength of ankle strategy • Variations of typical include: • Standing hip glute series • Event • Event • Event • Event • Event • Event • Event





Treatment – Hip abduction strengthening

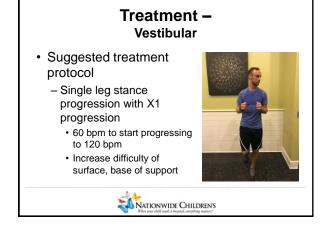
- Use of hip strategy to compensate for decreased strength of ankle strategy
- Relate to soccer:
 - Side steps with ball drills

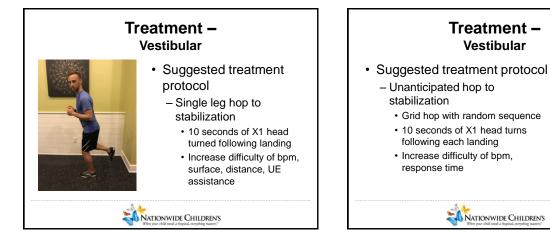


Treatment – Vestibular

- Chronic ankle instability related to central nervous system
- Training needs to include:
- VOR inducing head movements
- Plyometrics with visual change of direction







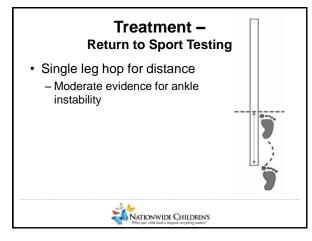
Treatment – Vestibular

· Benefits

- Improved gaze stabilization vertical compared to traditional training
- No significant differences in dynamic visual acuity or gaze stabilization horizontal
- No adverse effects





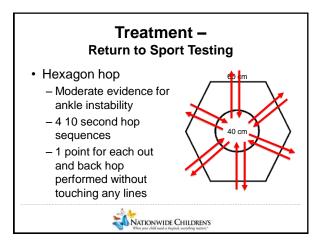




Treatment – Return to Sport Testing

- Best evidence: Star Excursion Balance Test 3 way
 - Determines unstable versus stable ankle
 - Injury predictor
 - Composite score <94%
 - Anterior reach difference 4cm or greater





Treatment – Return to Sport Testing

- · Foot and Ankle Ability Measure
 - Best psychometric properties
 - Valid in athletic population
 - Minimal Clinically Important Difference
 - ADLs: 8%
 - Sports: 9%



NATION WIDE CHILDREN'S





- 4.

- Sight RR, Hurris WR. Hyuris Bruching the Epilohysel PIBLe. Journal of Bore and Joint Surgery-American Volume. 1983;45(3):577-Sight RR, Hurris WR. Borg Charlos Charo
- 10.
- 11.
- 12.
- 13. 14.

