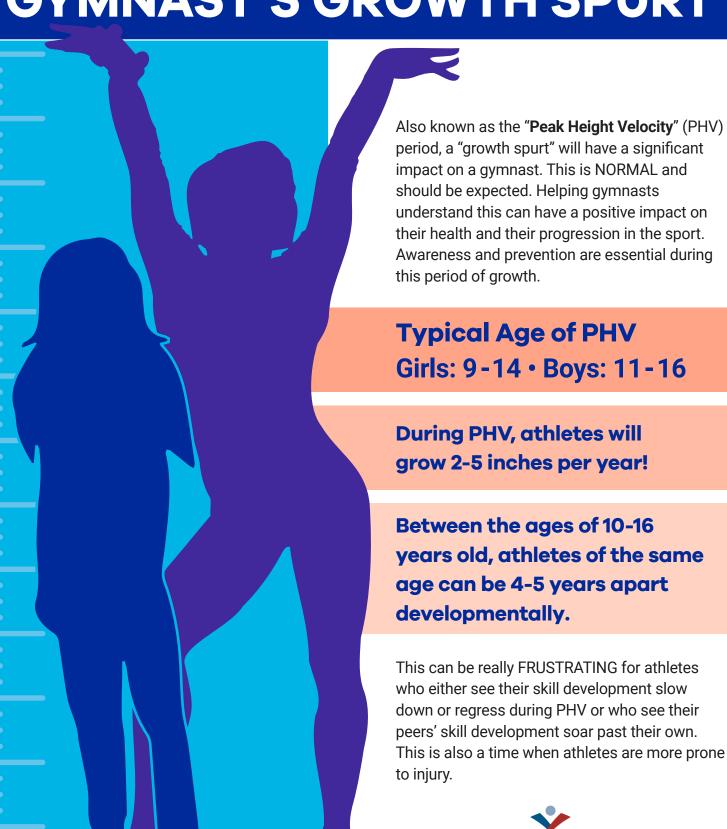
THE IMPACT OF A GYMNAST'S GROWTH SPURT



Here are a few things to expect during this time

Physical Impacts:

- In girls, height comes first, then weight gain, then muscle gain. Girls will typically gain more fat mass before gaining muscle
- In boys, height, weight, and muscle gains occur at the same time
- Increased joint laxity in girls
- · Decreased flexibility in boys
- · Increased agility, balance, power, speed
- Decrease in coordination
- Decreased bone density precedes PHV=increased risk of fracture
- Increased risk of injury due to temporary decrease in bone density, changes in flexibility, increased weight, loss of coordination

Emotional Impacts:

- Athletes may get discouraged due to loss of skills or slowing of skill progression during this time.
- Athletes may see their peers excel during times when they are struggling.
- Frequently, athletes experience their first injury during this time which can cause anxiety or feelings of depression and isolation.
- Coaches often do not adjust their expectations appropriately during this time to account for PHV

Nutritional Needs:

- Caloric needs may increase during this time
- As girls gain fat, they may be tempted to reduced caloric intake which can cause further loss of bone density or a deficiency in energy needed to do gymnastics

What you can do to help your athlete during this time

Training:

- May need to adjust training hours, reps, or intensity
- Provide adequate rest days
- · Cross train to vary muscle groups
- Reach out to medical professionals for help with return to sport after injury.
- Coaches should be willing to collaborate with an athlete's medical professionals, especially to help those who are not familiar with gymnastics

Support:

- Coaches, family, teammates, and your child's medical team should all offer extra support and encouragement during this time
- Consider working with a mental health professional
- Use goal setting to set realistic and measurable goals to keep gymnasts motivated
- Avoid blaming for lack of progress, expressing disappointment in performance, or comparing to teammates who are likely developing at a different rate

Education:

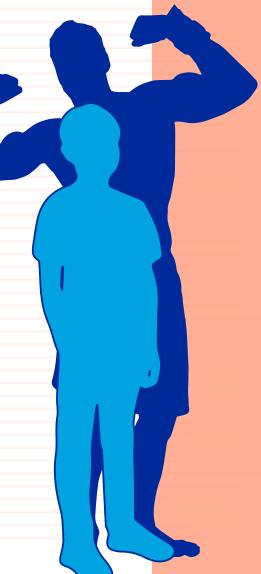
 Athletes, parents, and coaches should understand the impact of PHV on gymnastics

Sleep:

 Proper sleep is CRUCIAL to physical function (performance, recovery, and healing), motivation and focus. Make sure your gymnast gets 8-10 hours of sleep every night. Sleeping in on weekends can only go so far. Every night of sleep counts!

Nutrition:

- A healthy diet with sufficient caloric intake helps with recovery and mental health
- Help your gymnast develop a healthy diet with a good balance of carbohydrates, proteins, and healthy fats to feed their bodies and their brains.
- During PHV, it can be useful to work with a dietician to ensure your gymnast is eating an appropriate number of calories per day.
- Low levels of Vitamin D, Iron, or Calcium are associated with higher injury rates



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