# TelAbility

### Fitness for Children with Developmental Disabilities

Enhancing the lives of children with disabilities

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### **Physical Fitness**

Physical fitness allows children and adolescents to participate in daily activities without stress or fatigue. Physical fitness is as important for children with developmental disabilities as it is for all children.

A child who is physically fit:

- Can perform daily household activities, attend school, and participate in sports and recreation at a level appropriate for their developmental skills without getting overly tired.
- Should have energy left over after a normal active day.

Physical fitness also **reduces health risks** that may occur in adulthood as a result of physical inactivity, including heart disease

- high blood pressure
- obesity
- low stamina
- diabetes (sugar)
- osteoporosis (brittle bones)
- low pack pain
- depression.

### Four Major Components of Health Related Fitness

- Cardiovascular/respiratory endurance (fitness of the heart, lungs and circulatory system): This type of fitness may be most important for long term health. Without good cardiovascular/respiratory fitness sustained activity for longer than a few minutes is difficult.
- 2. **Muscle strength and endurance** Activities such as walking long distances with or without crutches, performing transfers, wheeling a wheelchair up a ramp all require lots of muscle strength and endurance.
- 3. Flexibility (of muscles and soft tissue around joints) Flexibility is a problem for children who are relatively immobile, who use wheelchairs for sustained periods or who have spasticity, muscle weakness or muscle strength imbalance. For example long periods of sitting in a wheel chair can cause tightening of the hip flexors, hamstrings, and lower back.

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4. Body composition (weight and % body fat compared to muscle) Weight problems can limit health and function and increase inactivity. A child who is over weight needs more muscle strength and cardiovascular effort to maintain basic activity levels.

A fitness program for a child with cerebral palsy or other developmental disability should include activities to build all four major components of fitness and should be individually designed by a physician or therapist familiar with the child's special health needs.

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#### Reference

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