

CAPTURING SUCCESS IN CONDUCTIVE EDUCATION

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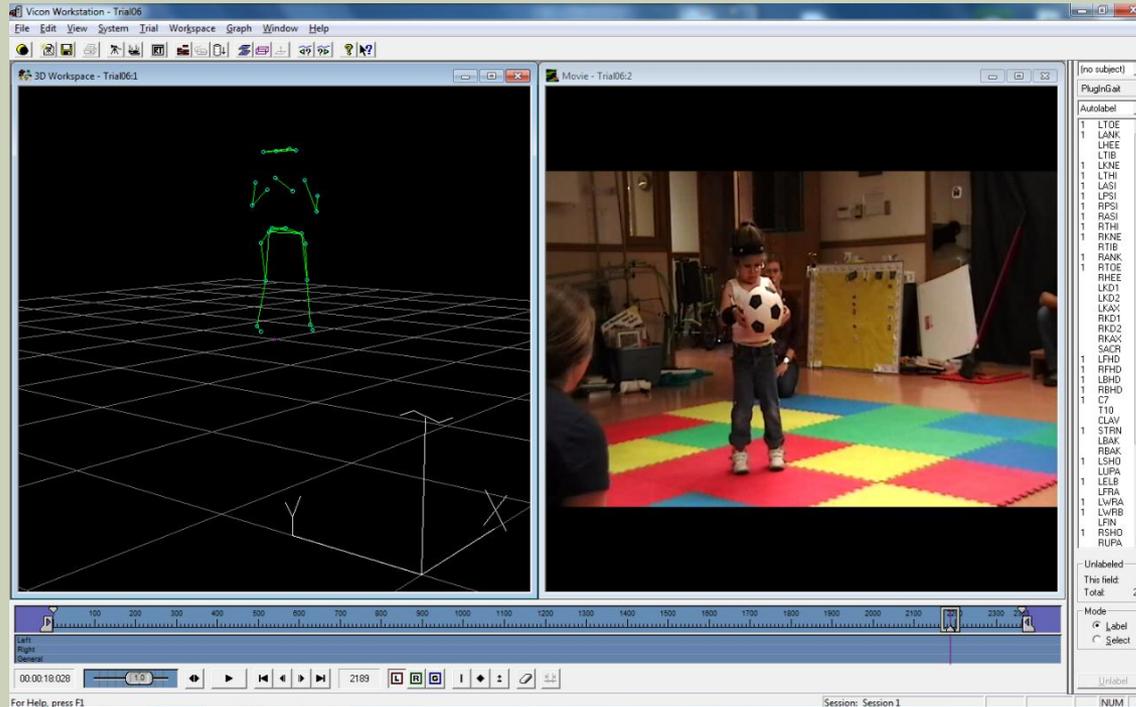
Liz Balas, PT

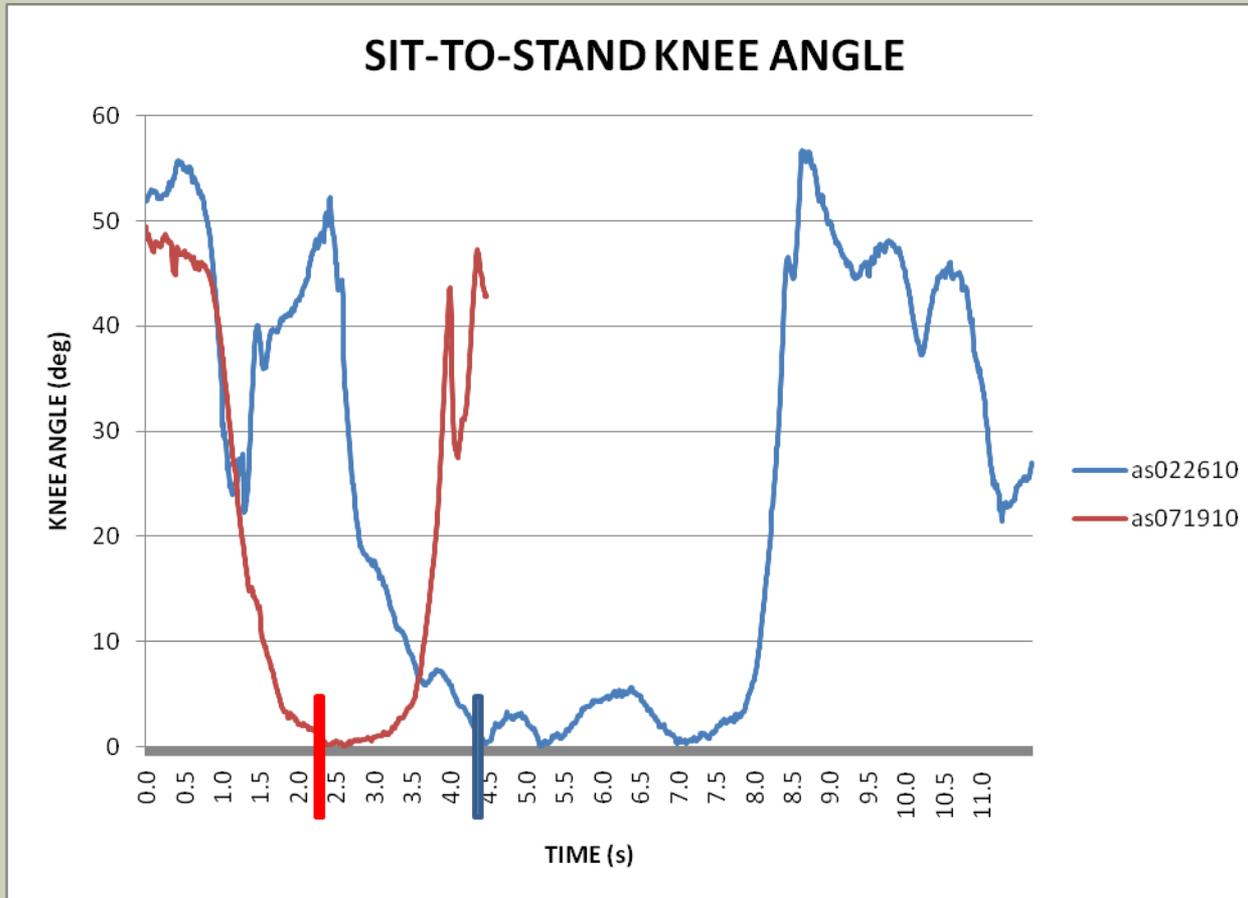
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METHODS

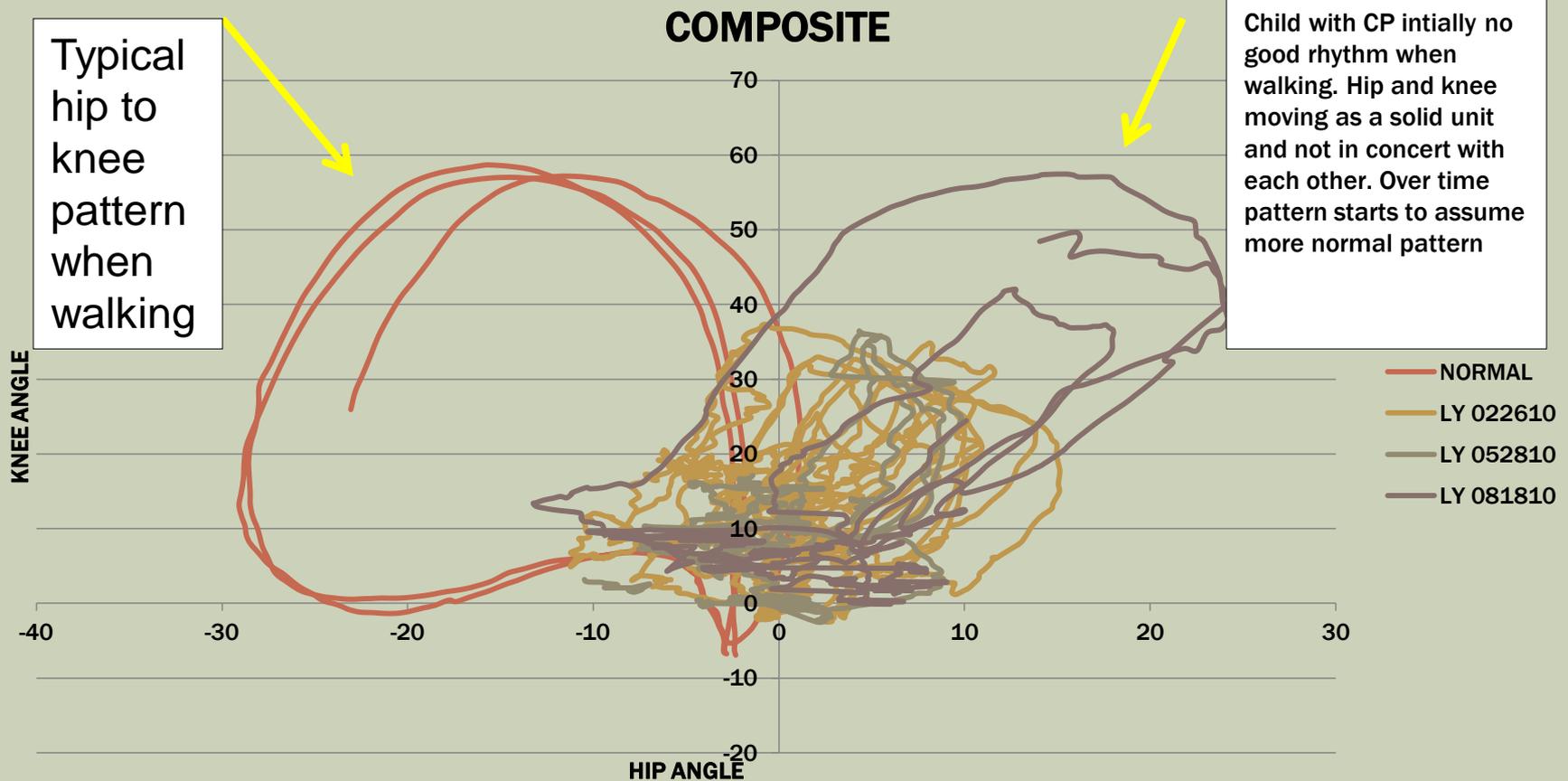
- Data processing
 - Vicon C3D data were imported to Motion Monitor software for processing





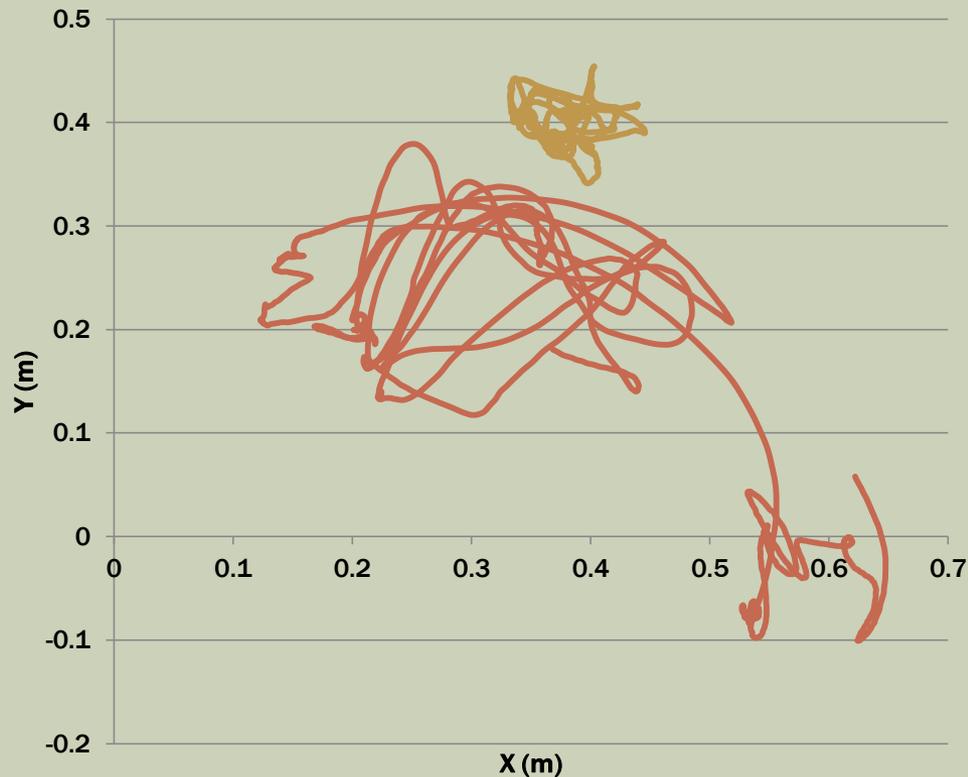
AS knee angle data for sit-to-stand trial. February data shows full extension (0°) in approximately 4.4s from initiation. July data shows full extension in approximately 2.3s (47% faster) with a much smoother performance.

WALKING: HIP TO KNEE ANGLE COMPARISON



HAND-TO-MOUTH MOVEMENT PATTERN

HAND-TO-MOUTH



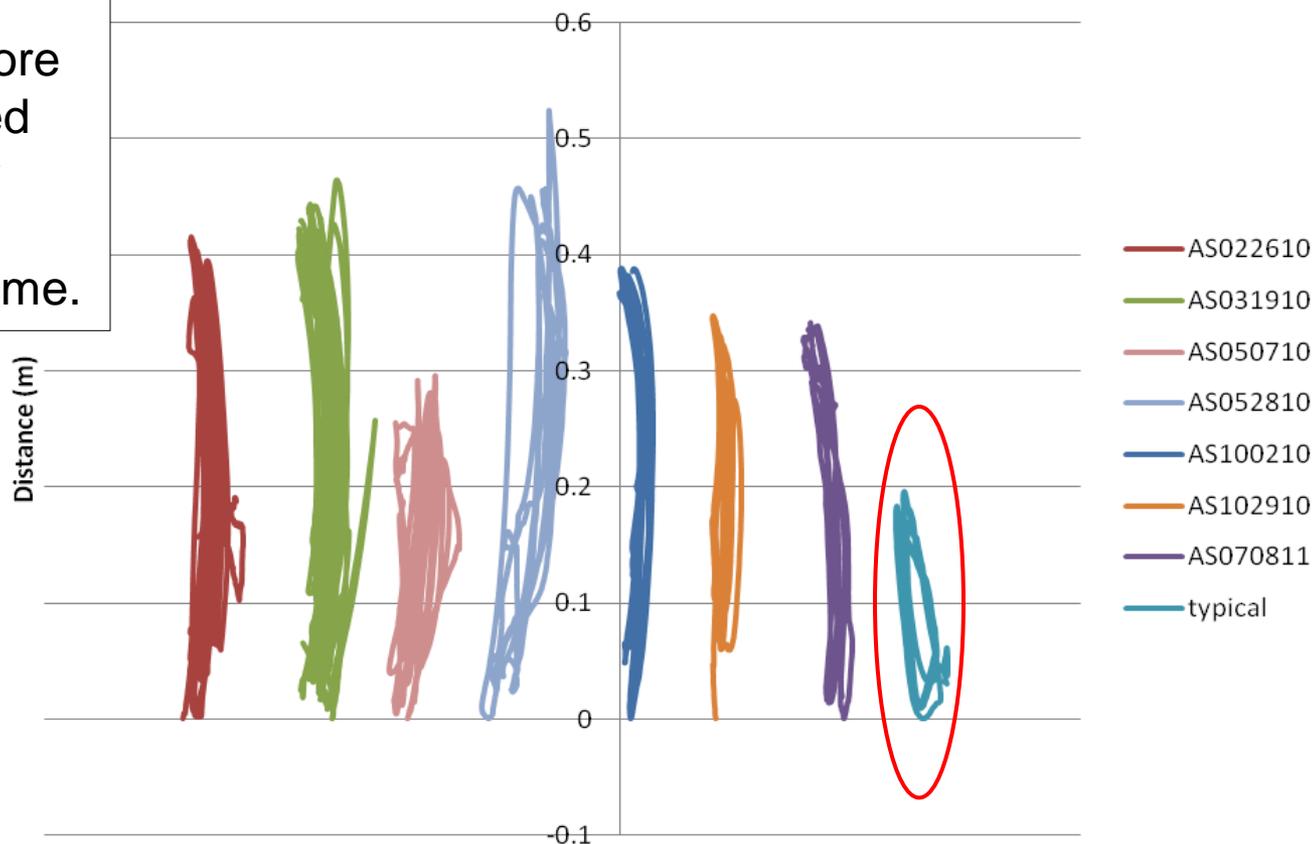
- More efficient path for the 10-22-10 data (gold) compared to the 03-19-10 data.(red). Child is more accurate getting hand to mouth. Conceivably can eat more variety of food..pudding versus peas! Or use a spoon successfully instead of relying on stabbing everything with a fork.

cm-031910

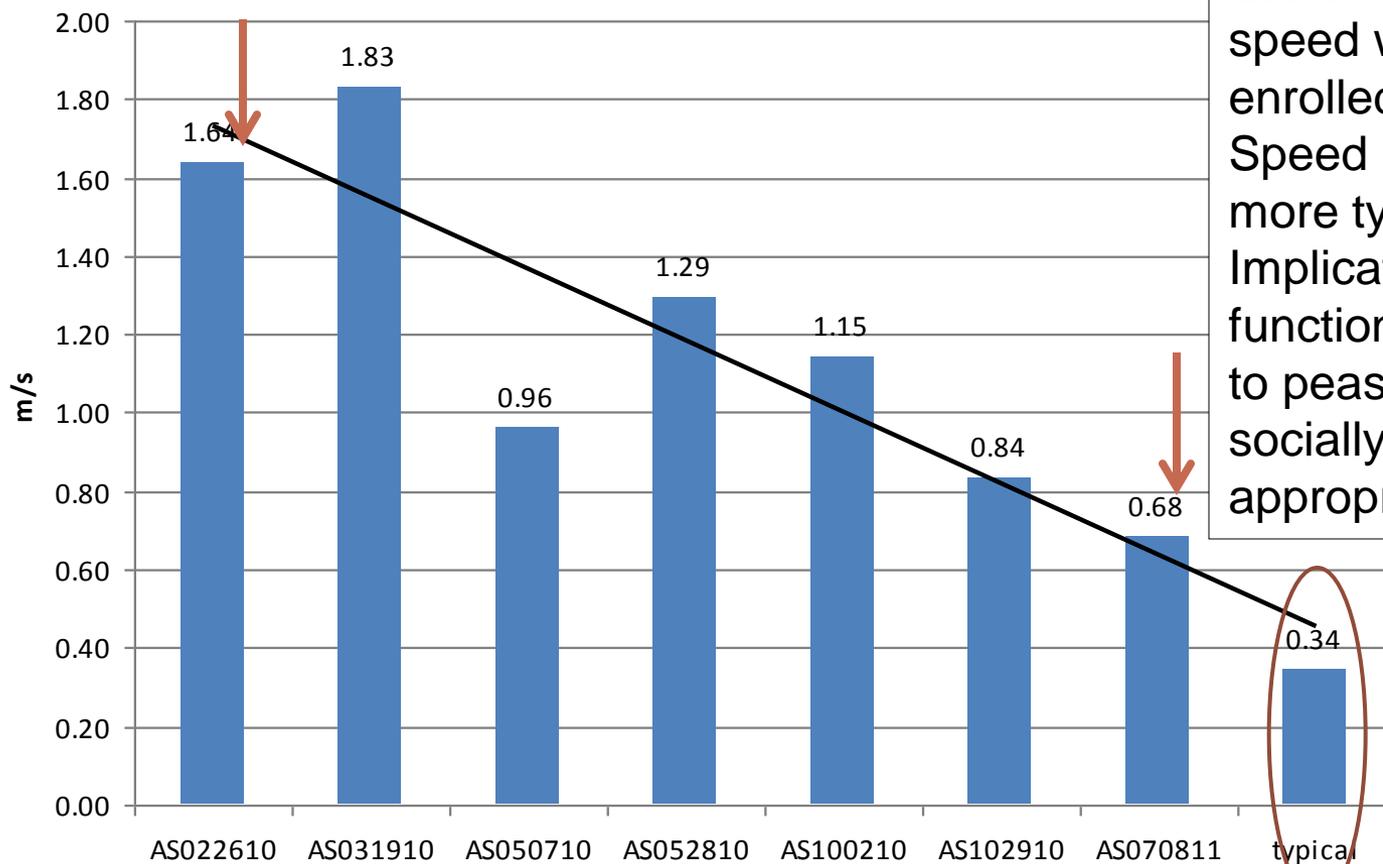
cm-102210

Over time, see a decrease in amount of spoon travel. Child with CP pattern of movement becoming more typical. Speed still relatively high but improving some.

SAGITTAL PLANE SPOON MOVEMENT



MAX VELOCITY



Almost a 60% decrease in spoon speed while enrolled in CE. Speed becoming more typical. Implications: better function (pudding to peas), more socially appropriate.

DISCUSSION/CONCLUSION

- There is a change over time in performance for a child with CP attending CE
- Childs movements become more controlled, better finesse, more efficient
- Improved motor control and motor learning
- Less energy consumption
- Less skeletal wear and tear

IMPLICATIONS

- Children are moving more efficiently and in a more normalized pattern.
- May reduce impact of motor disorder and reduce secondary complications as child ages into adulthood