Name: Jones, Susan

Age: 12 years

Diagnosis: cerebral palsy, developmental delays

Date of Evaluation: 4/17/18

Background Information:

Susan is a 12 year old girl with the diagnoses of cerebral palsy and developmental delays. She was seen for a wheelchair seating and mobility evaluation today with her Mom.

Susan lives at home with her family and attends Middle School. She currently uses a manual tilt in space wheelchair.

Goals:

- Evaluate current positioning
- Evaluate current manual mobility base

Current Equipment:

- Specify wheelchair type and age
- Specify seating system type and age
- Shower chair
- Ceiling lift
- Home is accessible
- Vehicle is accessible

Evaluation:

Seating:

A seating evaluation was completed today. A replacement seating system was recommended. *(Specify evaluation results and seating recommendations here).*

Manual Wheelchair:

The current manual tilt in space wheelchair is three years old and still fits Susan. Susan spends a great deal of her day rocking within her wheelchair. She seeks out movement, mostly rocking at her hips, kicking out with her legs, and repeatedly hitting her head against her head support. As a result, she has worn the wheelchair frame to the point of needing replacement several times over the years. She needs a wheelchair that moves with her and prevents this wear and tear to the frame.

We recommend a **Seating Dynamics Dynamic Rocker Back interface**. The Dynamic Rocker Back moves posteriorly in response to client force and assists the client back to an upright starting position. The Dynamic Rocker Back is recommended to absorb forces exerted by the client which have led to equipment breakage in the past and to prevent future breakage. The dynamic components absorb these excessive forces, protecting the wheelchair frame, seating system and hardware from breakage. Breakage may result in the client being unable to use their wheelchair and/or seating system until repairs are made.

The Dynamic Rocker Back is also recommended to provide movement for the client to provide vestibular input, increase alertness, decrease agitation, increase sitting tolerance and increase function.

We also recommend **Seating Dynamics Dynamic Footrests with telescoping and the knee extension features**. Dynamic Footrests lengthen and extend at the knee in response to client forces and then return to a starting position. Dynamic Footrests are recommended to absorb forces exerted by the client which have led to equipment breakage in the past and to prevent future breakage. The dynamic components absorb these excessive forces, protecting the wheelchair frame, seating system and hardware from breakage. Breakage may result in the client being unable to use their wheelchair and/or seating system until repairs are made.

Dynamic Footrests are also recommended to provide movement for the client to provide vestibular input, increase alertness, decrease agitation, increase sitting tolerance and increase function. Susan does not require a plantar and dorsi flexion option, as she does not tend to move in these directions.

Finally, we recommend **Seating Dynamics Single Axis Dynamic Head Support Hardware** to support the recommended head pad. The Single Axis Dynamic Head Support Hardware moves posteriorly in response to client forces and then returns to a starting position. The Dynamic Head Support Hardware is recommended to absorb forces exerted by the client which have led to equipment breakage in the past and to prevent future breakage. The dynamic components absorb these excessive forces, protecting the wheelchair frame, seating system and hardware from breakage. Breakage may result in the client being unable to use their wheelchair and/or seating system until repairs are made.

Dynamic Head Support Hardware is also recommended to absorb forces resulting from repeated banging. Absorbing these forces can protect the brain and cervical area from injury from sudden, forceful and/or repeated impacts as well as sustained forces.

Recommendations:

1. Specify brand tilt in space manual wheelchair with:
    a. Specify necessary wheelchair components
    b. Seating Dynamics Rocker Back Interface.
    c. Seating Dynamics Footrests with telescoping and knee extension options.
    d. Shoeholders with padded ankle and toe straps to keep feet in contact with dynamic footrest footplates so that these will move in response to Susan's movement.
    e. Seating Dynamics Single Axis Head Support Mounting Hardware.
    f. Specify headpad.

Feel free to contact me with any questions or further needs.

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Name Date

About the Author

Michelle Lange is an occupational therapist with 30 years of experience and has been in private practice, Access to Independence, for over 10 years. She is a well-respected lecturer, both nationally and internationally and has authored numerous texts, chapters, and articles. She is the co-editor of Seating and Wheeled Mobility: a clinical resource guide, editor of Fundamentals in Assistive Technology, 4th ed., NRRTS Continuing Education Curriculum Coordinator and Clinical Editor of Directions magazine. Michelle is on the teaching faculty of RESNA. Michelle is a member of the Clinician Task Force. Michelle is a certified ATP, certified SMS and is a Senior Disability Analyst of the ABDA.