

Client: Kylie

Parent(s): Chele

PT/OT/Supplier: Bert Lindholm (Numotion)

Location: Cody, WY

Kylie is a young woman lives in Wyoming and works in the theatre. Kylie has cerebral palsy and has used a power wheelchair and speech generating device since a young age. She has recently started using dynamic seating.

On her power chair, Kylie uses a Seating Dynamics Dynamic Rocker Back interface (DRBi), Seating Dynamics Dynamic Footrests and a Stealth Products Dynamic Head Support (tone deflector). On her manual wheelchair, Kylie has Miller's dynamic coil springs on her footrest hangers.



Equipment Breakage

Before Kylie received the Dynamic Footrests, she was constantly breaking her footrests. Per Chele, "She was fracturing pieces of metal, and everyone kept telling us 'this shouldn't happen.'" Getting the dynamic footrests has cut down on trips to the supplier for repairs. Kylie and her Mom must drive to Denver for repairs, a trip that takes about 3 hours.

The dynamic component on her manual wheelchair footrest hangers is bent and doesn't allow her to move. Kylie's tone is so strong, that she has actually bent these coil springs on the manual wheelchair. As a result, her feet and legs are not positioned optimally. She will be receiving Seating Dynamics Dynamic Footrests soon for this chair.



Pressure

Kylie used to get pressure injuries on her heels and the inside of her feet. She had to use corn pads and wear really good shoes (athletic shoes) to protect her feet. With the dynamic footrests, she can wear any shoes she wants without pressure concerns. Kylie is a styling young woman who likes her shoes!

"I don't like to tighten the belts on the seating system down all the way, because I want Kylie to be able to

move. With the dynamic back and footrests, she can move, stretch out, and get the pressure off of her butt." In combination with her power tilt system, the movement of the dynamic components further reduces pressure concerns.

Quick Notes

Challenges:

- ✓ Equipment Breakage
- ✓ High Tone
- ✓ Extension
- ✓ Pain & Tolerance

Areas affected:

- ✓ Head
- ✓ Back
- ✓ Trunk
- ✓ Knees
- ✓ Feet

Equipment Used:

- ✓ [Dynamic Rocker Back](#)
- ✓ [Dynamic Footrests](#)
- [Static Footrests](#)
- ✓ [Dynamic Head Support](#)
- [Static Head Support](#)
- [Spreader Mount](#)

Position, Function, and Comfort

Before Kylie had a dynamic back, she would rise up against the back when extending, and her head would go up and over her headrest. Now her bottom stays in the seat. Maintaining her position within the seating system has improved her function. Before getting dynamic seating, Kylie couldn't stabilize against portions of her seat to be functional, as it was uncomfortable. Now she can without pain.

Results

Dynamic Seating can diffuse force, protect the wheelchair from breakage, improve function and comfort and even allow someone to wear the shoes they want!

Chele Kylie's Mom Cody, WY

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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 a RESNA Fellow and member of the Clinician Task Force. Michelle is a certified ATP, certified SMS and is a Senior Disability Analyst of the ABDA.