

To Whom It May Concern:

J_____ is a 44 year old male with a diagnosis of Type 2 Spinal Muscular Atrophy. He is 5'5.5" in height and weighs 130 lbs. He lives in a wheelchair accessible home. J_____ is physically unable to propel and style of manual or ultra light-weight manual wheelchair.

Orthopedically, J_____ presents with a severe right roto-scoliosis of the spine with a significant lordosis of the spine is also prevalent. He requires a large right lateral trunk support to maintain an upright seated posture. J_____ sits with his left upper extremity across his right thigh with his left elbow stabilized against the inside aspect of his left thigh. J_____ operates a touch pad drive controller mounted on the right side of the chair with his left hand reaching across his lap and stabilized in this manner.

J_____ requires a power wheelchair for independent mobility within his home and throughout the community. He has utilized a power seating system with tilt in space and recline for the past several years. This old power mobility system also has power elevating leg rests. J_____ uses all of these power functions to alter and adjust his positioning in his wheelchair. This old wheelchair also has a custom power actuated push rod which J_____ utilizes for raising his right upper extremity from his lap vertically to his shoulder level. He is physically unable to elevate his right upper extremity without this customized device.

The following is a detailed list of the equipment prescribed for J_____ and the justification for each item.

Invacare Arrow 3G Power Wheelchair is recommended as the mobility base and selected for compatibility with the weight shifting tilt-in-space seating system. The rear wheel drive base will replace the eight year old mobility base that J_____ has been using. This wheelchair will support the additional features he requires for pressure relief and positioning.

8" x 1-¾ semi-pneumatic casters with shock absorbing forks are required as the front turning and navigation wheels of the chair. The wheelchair cannot move without casters. The shock absorbing forks are recommended to decrease the impact which occurs as J_____ navigates over thresholds and uneven surfaces.

14" x 3" drive wheels with foam filled inserts are required as the rear propulsion wheels on the wheelchair. The foam inserts are necessary due to his physical inability to perform pneumatic tire maintenance.

Group 24 Battery boxes are required to hold the G-24 batteries. Because of the length of time J_____ is in the chair each day and the additional power drain of the seating system and additional components, this size battery is recommended.

Touch Pad Proportional wheelchair control is required as the input device which will allow J_____ to operate the power wheelchair with the touch of his

fingertip. This controller offer the most minimal resistance in a proportional drive interface. He has used this controller successfully for several years.

Removable Mount for Touch Pad Controller is necessary for J_____ to move the joystick out of the way for transfers.

Motion Concepts Ultra Low Power Tilt with 174 degrees of power recline with ESR will allow J_____ to independently open and close the seat to back angle and tilt the seating system for pressure relief and postural positioning. J_____ requires frequent changes to his seated posture due to his spinal muscular atrophy. The combination of posterior tilt and power recline is medically necessary for J_____ to position himself, tilting back for increased trunk stability while he drives the power chair, opening and closing the reclining back to adjust his posture for and aft.

Lateral Tilt Module with up to 15 degrees of left and right power tilt. This lateral tilt feature has been evaluated with J_____ to determine its effectiveness. The lateral repositioning achieved with this system allows J_____ to move away from his scoliotic posture where he must fight against gravity. Lateral tilt allows him to achieve a posture where gravity can bring him toward midline enough for him to have more functional proximal upper extremity use. In short, J_____ was able to achieve a postural position which will allow him to feed himself and utilize a urinal more independently. The only way for J_____ to independently achieve this positioning for functional activities is with the use of a lateral tilt seat module. It will maximize his long term function.

Power Pivot Plus Leg-rests required as the lower extremity support and positioning portion of the seating system. It is necessary for his lower extremities to be raised and lowered, adjusting his knee flexion and extension for circulation, stability and adjustments for ground clearance while driving the power chair over various terrains.

Custom Power Upper Extremity Lift must be fabricated for J_____ to have the ability to bring his right upper extremity up to the level of his shoulder. The previous vertical lift system will not work on the new power chair with lateral tilt as it extends below the seat level to the frame. As previously mentioned, J_____ is physically unable to lift or elevate his right upper extremity without this type of custom, vertically elevating component.

Custom Power Swivel Arm Pad to move from side alignment toward midline. J_____ is physically unable to move his forearm in toward his body. This customized forearm support will enable J_____ to reposition his forearm closer to and away from his trunk.

TRx Enhanced 6 function electronics control box is required as the interface for the power seat functions. This will enable J_____ to independently control up

to six power seat functions. These seat functions must be activated separate from joystick which operates the power chair.

Otto Bock OBSS Custom Molded Seat required accommodating the pelvic and orthopedic changes and providing maximum distribution of weight across the seat surface.

Otto Bock OBSS Custom Molded Back is required to accommodate the postural changes from roto-scoliosis and lordosis. J_____ has orthopedic changes which cannot be accommodated with a standard power wheelchair back support.

Stealth headrest with Embedded Switch is recommended to provide support for J_____ head when he is tilted and/or reclined. It will also provide some support for his head while riding in the car. The embedded switch will allow J_____ to access isolated operation of the custom arm positioner or one of the seat functions. **The Embedded switch is a custom modification.**

Stealth left swing away mount with egg switch is required for independent operation of the power seating system features, which J_____ requires for pressure relief and repositioning. These components attach a switch to the headrest and will allow him to independently control seat system functions. Turning his head to the left and touching the switch will allow J_____ this independence, even against gravity. The swing away mount is required to allow the switch to be moved out of the way for transfers.

Long right lateral headrest pad is required to provide additional support due to J_____ asymmetrical head position and decreased head control.

Multi-Axis Headrest mounting hardware is required to mount the head support system and accommodate anterior adjustments and positioning for the headrest.

Chest Harness Belt Helps for upper body support due to weakness. It will provide anterior stability for J_____ trunk and upper body. This is especially important when he is operating his power wheelchair.

Left Hip Guide and Mounting Bracket Needed for adjustment for left hip due to pelvic migration. This padded hip support will maintain a more centered position for J_____ pelvis.

Tray Attached to mounting hardware for upper body position a tray is a necessity for eating, drinking, and other daily activities. He can not independently feed himself without a tray; therefore a tray is a necessity for him.

Tray Mounting Hardware for side and Mid-line Mount (for above described tray) Allows tray to be positioned while in use for eating and MRADL and also can be removed for transfers.

Power Tech II power supply This is a power supply needed to keep from drawing current off the wheelchair. It allows you to use electrical devices (laptop, charging cell phones, etc) without draining the charge of the primary batteries used for the wheelchair and risking failure of the power base.

Gel armrest pad (right) This will help protect the elbow from skin breakdown and shear from continuous repositioning.

Elbow Block is needed to keep J_____ arm position in alignment while using tilt and recline. J_____ is physically unable to maintain the position of his upper extremities against gravity. When his system is tilt posterior or if it is reclined, he required this support to keep his arm from sliding rearward where he could sustain injury.

Multi Purpose Adaptor Block is required as the mounting block for the elbow block. It can not be mounted without this adaptor.

Heel Loops are required to prevent J_____ feet from slipping off the footplates.

Elbow Wrist Strap This will attach to swivel arm pad so J_____ can move his forearms toward his body.

Multi Switch Mount for Cup Holder Due to J_____ muscle loss the only way J_____ can independently hydrate himself is if his drink is positioned within access of his mouth. J_____ drinks fluids all day long and this switch will allow him to have a drink in the correct position through out the day independently.

Switch Harness for Seat Functions These are not standard switches but J_____ has used these two switches for 8 years. These will allow him to complete multiple seat functions due to lack of motor skills.

Attendant Power Off Switch The power off switch will allow all power functions to be turned off when not in use, due to its multiple functions. This will save drain on batteries.

EZ Lock Hardware Bracket This is needed to allow J_____ to Lock Down his chair while in his van.

The above items will combine to allow J_____ the independence of mobility, pressure relief and seated postural adjustments. The power base features the most adjustable electronics and the most appropriate seating system to meet his positioning and postural needs which will maximize his independence. These

recommendations reflect careful consideration for J_____ current and future
condition. If you have any questions, please contact _____ at _____
Thank you for your attention to this matter.

Sincerely,