

## ADVANCE CHAIR CLINICAL JUSTIFICATION

FEATURE	CLINICAL JUSTIFICATION
Independent Tilt-in-space	Allows the legs to remain bent when moving backward into tilt-in-space. This is suitable for clients who have shortened hamstrings, lower limb contractures and spasticity.
Lockable Backrest Recline	Avoids the risk of backrest position being adjusted incorrectly which could have detrimental effects on a person's posture.
Reduce Shear Recline	Reduces the level of shear and movement in the hips when the backrest is reclined. Ideal for stability at the pelvis during movement of the chair.
Forward Tilt	Assists with standing transfers (ensure removal of footplate).
Leg-rest Elevation	Leg rest elevation helps the user to relax and can help reduce fluid build-up in the legs used in conjunction with tilt-in-space.
Articulating Leg-rest	The leg rest function has been designed to lengthen with elevation using body move technology. This helps to ensure the whole leg is supported by the leg rest in elevation.
Negative Leg-rest Angle	Designed for people with contractures at the knees and shortened hamstring with reducing knee extension and therefore needing to be compensated within the leg rest angle of the chair.
Drop-Down Armrest	Suitable for better access to the side of the body for sling positioning.
Castors	Castors are appropriate for transferring non ambulant users to access multiple areas in their environment and reduces the frequency of manual handling from one chair to another.
Integrated Seat Width Adjustment	Armrests can be adjusted to slide in and out to accommodate width measurement of the person, this helps in encouraging correct neutral sitting position by avoiding leaning onto one armrest.
Integrated Seat Depth Adjustment	Backrest can be adjusted to slide forward and backwards to accommodate the depth measurement of the person in encouraging correct positioning of the pelvis in the seat and to avoid poor postures developing.
Integrated Seat Height Adjustment	Footplate position slides up and down to manage height in supporting a person's feet correctly and avoiding foot drop.
Removable Footplate	The footplate is easily removed and designed so there is no need to change height each time. This allows assurance that the set up will remain as scripted.
Visco Seat Cushion	Heat sensitive memory foam moulds to the user providing maximum support and pressure redistribution. Suitable for users who are at risk of pressure damage.
Cushion	Powered alternating air cushion which provides pressure relief for those who have developed pressure damage. A row of cells of the cushion inflate and deflate alternately providing pressure offloading and encourages circulation in the area.
Continuous Overlay	The pressure relieving fabric and visco cushioning is integrated within the length of the leg rest to prevent pressure injuries developing.
Multi Adjustable Waterfall Backrest	Each pillow is height adjustable and filling can be customised to the user. Offers mild to moderate postural support and is highly effective for users with a kyphosis or scoliosis.
Complex Winged Backrest	The complex postural backrest integrates winged backrest with multiple angle settings to allow for varied postural support needs from high to complex posture management and correction.
Rigid External Lateral Supports	The lateral supports can be adjusted along the length of the trunk for moderate postural support. It is designed in 2 parts, fitting to chair, and separate lateral, so when taking each lateral out it does not impact the original and scripted positioning.
Cocoon Backrest	Combines the benefits of the waterfall backrest with adjustability of the stuffing within each area of the backrest whilst also providing a higher level of lateral support.
4 Point Pelvic Strap	Available to support pelvic stability and maintain suitable positioning. (Must not be used as a constraint.)

## ADVANCE CHAIR CLINICAL JUSTIFICATION

CLIENT SYMPTOMS	CLINICAL JUSTIFICATION
Cognitive or intellectual impairment	The use of the Configura Advance is common for clients with advancing dementia, intellectual or severe cognitive impairments. When cognition impacts a persons ability to initiate movement this can results in postural deformities and immobility. The mechanical Advance Chair is advised to use for these clients as there could be a risk of the handset being used in an unsafe manner. Make sure to guide the client as to the upcoming movements occurring in the chair to minimise any behavioural reactions to sudden tilt-in-space or backrest recline. The advance chair allows for a person with dementia to access social and communal areas of their home to maximise their engagement in meaningful activities known to greatly benefit a person with dementia.
Immobility	The Configura Advance is ideal for clients who are unable to transfer in and out of their seating independently. This applies to those who require a hoist to transfer and for those who are using standing aids to transfer. The large castors allow the chair to move around the persons environment. The space below the frame of the chair is ideal for access for a hoist legs to get close to the chair for the transfer. Drop down armrests and the tilt-in-space features of the chair also assist in optimising a safe and successful transfer for immobile clients. In order to maintain or rehabilitate standing and mobility we recommend using the anterior tilt feature.
Fatigue	For clients who suffer from fatigue impacting on their postural abilities the Configura Advance feature will aid them to maintain more neutral and ideal seated postures. Maintain upright posture requires a high level of core muscle activation and a person with fatigue will benefit from the mechanisms of the chair to reduce this activity level. Use of tilt-in-space and leg rest elevation allows a person with fatigue to remain sitting for longer periods of time without contributing to their physical fatigue.
Incontinence	Fabric
Spasticity	The Configura Advance can be used very successfully for someone with high tone and spasticity affecting their range of motion of postural alignment. The Configura Advance allows a therapist to adjust the shape and configuration of the chair to the non reducible joints of a client to create ideal support and comfort.
Low Tone	The Configura Advance has multiple backrest support options for a person with low tone. Low postural tone can greatly impact a persons ability to maintain an upright seated posture so aggressive postural supports are often required to help aim towards more neutral alignment. The complex winged backrest and fixed lateral supports can be used along the trunk of a client to assist with this more corrective support. Tilt in space is also ideal for maintain the pelvis at the back of the chair and helping align the trunk in midline along the backrest.
Reduced Sitting Balance	The Configura Advance can help a person with poor sitting balance to achieve and maintain upright posture. Using the postural supports and tilt-in-space for postural alignment. This can also be used to gradually increase seated balance for someone post neurological event to slowly reduce the level of tilt and increase seating tolerance.
Limited lower limb range of motion	The Configura Advance can be used very successfully for someone with reduced lower limb range due to the true tilt in space feature. The leg rest stays at 90 degrees whilst the seat base tilts back. The leg rest can be adjusted to the angle the person can achieve in the knee extension to open up this joint, or for those with severe limitations to knee range the negative leg rest angle of less than 90 degrees can be used.
Lower Limb Oedema	The Configura Advance allows for lower limb fluid drainage for those who have lower limb oedema. With the chair in tilt-in-space, leg rest elevation and backrest recline, the chair moves into a position where the legs are higher than the heart.
Scoliosis	The Configura Advance has multiple backrest options for supporting a person with scoliosis. As this condition creates a fixed deformity of the spine into an S shape are role is to prevent this positioning from getting worse. This can be achieved with 3 points of control along the backrest with the lateral supports. This can be done using the adjustable lateral support backrest or the fixed laterals of the complex winged backrest.

## ADVANCE CHAIR CLINICAL JUSTIFICATION

CLIENT SYMPTOMS	CLINICAL JUSTIFICATION
Kyphosis	The Configura Advance allows for optimal support and comfort for those with a kyphotic posture. It is important to create a backrest that allows a person thoracic spine to be immersed by the cushions and that also offloads the vulnerable spinal processors from pressure injuries. By positioning the waterfall cushions to be orientated vertically this creates a very comfortable backrest option for these clients. The cocoon backrest is also successfully used by removing some of the stuffing to accommodated for the spine. These backrest options used in conjunction with tilt in space assists in maintain a more upright posture whilst also allowing for eye gaze to meet midline for social interactions.
Pelvic Obliquity	The Configura Advance can be used for people who sit in pelvic obliquity. The main aim of intervention is to build up the seat base to create a more even distribution of weight in order to reduce the risk of pressure areas. This can be done by adding foam wedges under the seta base fabric or by fitting in a customised seat cushion.
Pressure Injuries	The Configura Advance allows for prevention and management of pressure injuries. The advanced chair accommodates for pressure care needs with a standard medium to high prevention cushion which is ideal for pressure redistribution through immersion and envelopment into the memory foam cushion. If a person has developed pressure areas and is at a very high risk of pressure injuries the cushion can be replaced to a higher level of pressure relief using the Cushion Air which provides the person with alternating air on a 10 minute cycle. The amount of time sitting out and other interventions like repositioning and weight shift should be considered for a person with pressure injuries.
Foot drop	The Configura Advance can accommodate a person with a foot drop. By opening up the angle of the footrest a person who has an angle of more then 90 degrees in a non reducible ankle join can be properly supported. There are 3 angles available and this helps to prevent the foot drop from getting worse.
Involuntary movements / Spasms / Tremors	The Configura Advance can be used successfully for people who have involuntary movements, tremors or spasms. By using the tilt in space feature a person with these movements would be much safer by reducing their risk of slipping forward and out of the chair. The frame of the chair can also withstand the movement of a person with severe involuntary movements i.e. for a person with Huntington's disease. The vapour permeable fabric also helps to minimise the risk of pressure injuries occurring with rubbing of the skin against the chair with these movements.
Pain	The configura advance can be used successfully for people who experience pain by providing them with multiple backrest and seat cushion option in order to find more optimal comfort level in seating.

## ADVANCE CHAIR CLINICAL JUSTIFICATION

### NDIS Specific Considerations

ANTICIPATED FUNCTIONAL OUTCOMES	CLINICAL JUSTIFICATION
Facilitate social participation	<p>For individuals with complex postural presentations, the chair's variety of postural supports allows users to be positioned in a good posture to allow for social engagement e.g. the complex winged postural backrest and profiled headrest. Being positioned upright comfortably allows individuals to engage face-to-face with others, make eye contact, and participate more actively in social settings.</p> <p>The postural supports and tilt-in-space feature also supports user to be positioned in a comfortable position. By reducing the physical strain and effort required to stay upright, the chair helps conserve energy that can then be used for social interaction and engaging in activities. This can enhance the quality of life by allowing for more prolonged and meaningful participation in social contexts.</p> <p>Equipped with large castors, the chair empowers users to smoothly navigate through different communal spaces, enabling them to connect with loved ones in a variety of settings without sacrificing postural support or comfort. This mobility liberates users from the isolation of staying in a bedroom, creating opportunities for richer, more inclusive social interactions. The ability to join in family and community gatherings with ease fosters a deeper sense of belonging and participation, contributing to a more vibrant and inclusive social life.</p> <p>Alongside postural support, pressure relief is another critical aspect. It ensures that individuals can remain seated for longer periods without discomfort or risk of pressure injuries, which is important for sustained social engagement.</p>
Activity engagement	<p>The Configura Advance chair tilt-in-space and recline functions improve respiratory, digestive, and swallowing functions, promoting well-being.</p> <p>The adjustable waterfall backrest, complex winged postural backrest, and cocoon backrest emphasizes the chair's adaptability to individual needs. This level of customisation ensures that users can find the most comfortable and supportive seating position, tailored to their specific postural requirements. This is critical for minimising discomfort and pain, which can be significant barriers to engaging in activities.</p> <p>By minimising pain and discomfort and providing necessary postural support and pressure care, the chair enables users to participate more fully in various activities. Whether it's socialising, dining, working, or leisure activities, the chair's design ensures that users have the support they need to be actively engaged for longer periods without the adverse effects of inadequate seating.</p>
Injury prevention	<p>The Configura Advance have features that mitigate the risks associated with falls, pressure ulcers, and poor posture. The chair's adjustable height, depth and width allows for optimal positioning and therefore optimal pressure distribution and therefore prevent pressure injuries. Additionally, the chair's pressure care options, including the CushionAir alternating air cushion, self-supply and standard built-in pressure relief visco foam cushion, cater to varying needs, minimising the risk of pressure injuries.</p> <p>Its tilt-in-space function and postural supports such as rigid lateral supports, profiled headrest and complex winged postural support backrest help maintain an upright posture, preventing slippage and enhancing stability for individuals with mobility challenges or neurological conditions.</p> <p>There is the option to add dropdown armrests or to remove the armrests allow for easier access around the user for sling fitting. By facilitating easier sling fitting, the chair reduces the physical strain on caregivers, lowering the risk of manual handling injuries.</p>

## ADVANCE CHAIR CLINICAL JUSTIFICATION

ANTICIPATED FUNCTIONAL OUTCOMES	CLINICAL JUSTIFICATION
Capacity to remain in own home	<p>The Configura Advance chair supports individuals in remaining in their own homes by providing features that enhance safety, mobility, and comfort. Its adjustability and support systems can reduce the need for external assistance, promoting independence in daily activities and contributing to a safer home environment. This capability is crucial for those wishing to maintain their quality of life while managing mobility or health challenges.</p> <p>The chair enhances the ability to remain at home by preventing injuries that could lead to hospitalisation. With features designed for safety, comfort, and mobility, it reduces the risk of falls and pressure injuries, key factors in maintaining health and independence at home.</p> <p>The Configura Advance is on big castors which allows it to be moved around in the user's home. Enabling them to have postural support and pressure care while accessing all areas of their home.</p>
Promote independence	<p>The chair's powered option allows users to independently adjust their positioning e.g. tilt-in-space, leg elevation and forward tilt.</p> <p>The Configura Advance chair supports independent side transfers with its drop-down armrest and vertical rise feature, coupled with the use of a sliding board. This design enables users to move in and out of the chair with minimal assistance, fostering autonomy in mobility and daily living activities.</p> <p>The chair's versatility in positioning also promotes rehabilitation and strength progression, making it an invaluable tool for maintaining independence in daily activities. The 10-degree forward tilt can be used in rehabilitation settings to encourage users to perform sit-to-stand transfer without giving too much assistance.</p>
Compatible with other AT/supports	<p>The Configura Advance is designed to be compatible with a few different transfer devices. It has the option to use drop down armrests to make it easier to fit a sling for hoisting and the standard armrest can be removed completely for a side transfer with a transfer board to be done.</p> <p>The chair has versatility across different care environments, such as home care, assisted living facilities, or clinical settings, due to its compatibility with hoists. This flexibility can be a significant advantage for users who require consistent support across various settings.</p>
Support Capacity building	<p>The Configura Advance chair supports user in capacity building as its customisable features adapt to the user's evolving needs, promoting greater independence and engagement in daily life. Features like adjustable seating, tilt-in-space, and easy-to-use handsets enable users to maintain and enhance their functional abilities, aligning with NDIS goals of fostering independence and participation.</p>
Value for Money	<p>The Configura Advance chair provides value for money by offering features that promote independence and reduce the need for caregiver assistance, such as tilt-in-space for improved posture and pressure distribution, adjustable seat dimensions for personalized fit, and compatibility with transfer aids. These features not only enhance user comfort and safety but also adapt to changing needs, making the chair a long-term investment in user well-being and functionality. This reduces the need to purchase a new chair once the user's size, postural or pressure care needs change.</p> <p>The Configura Advance chair has value for money due to its ability to increase user independence, particularly in positioning and therefore pressure redistribution. The user can elevate the leg rest to assist with postural drainage, use tilt-in-space for pressure redistribution and maintaining a good posture. This can decrease the need for caregiver support. This reduction in support needs can lead to cost savings over time, making the chair a cost-effective investment for users and healthcare systems alike.</p>
Standards Compliance	<p>Compliance Information ARTG#323913</p> <p>Preventive Maintenance IEC 60601   12 Month Inspection</p> <p>ARTG Information 323913</p>