



Madison is a happy, smiley, and content 2-year-old from Manchester, UK. She lives with her mum Daniella, dad David, and her older brother and sister. Like most toddlers, she enjoys watching Cocomelon, playing with her toys, and listening to music. She loves cuddles with her parents and playing with her siblings.

However, when she was approximately 6 weeks old her parents noticed she wasn't responding to typical visual cues. They also began to notice difficulties with motor skills such as kicking her legs, head control and rolling. Madison has since been diagnosed with **epilepsy** and **cortical visual impairment**.

Scan the QR code or follow the link to see Madison's journey with epilepsy here: <https://www.instagram.com/p/DBMG-ASsIWS/>



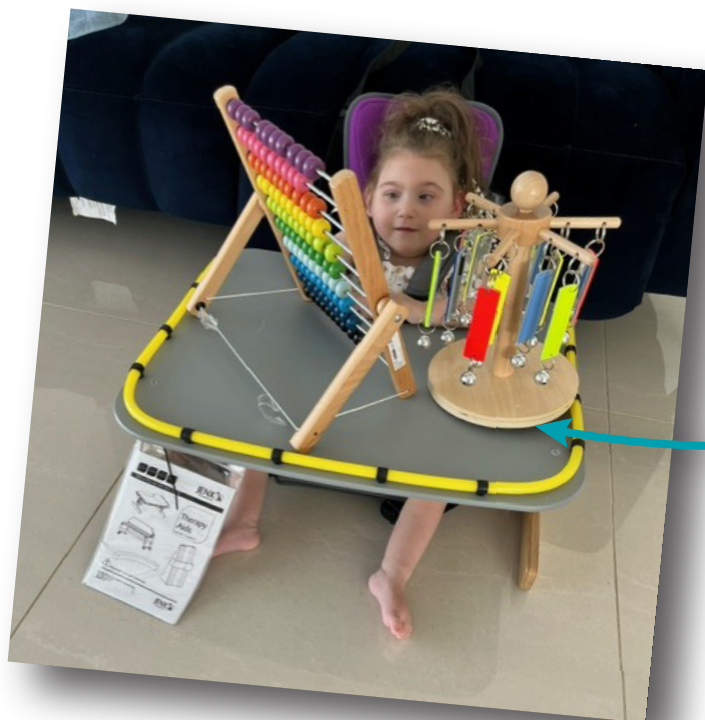
Scan the QR code or follow the link to see Madison's journey with CVI here: <https://www.instagram.com/p/DBOGIfLOx8W/>

She is affected by seizures, high muscle tone, visual difficulties and difficulties with her movement. She has a gastrostomy tube to help with feeding and to deliver nutrition directly into her stomach. She is non-verbal (but that doesn't mean she cannot communicate!).

All of this can affect her ability to interact with the world and develop her skills. But with a little support from adaptive equipment, she can sit, stand, play and communicate more independently and effectively.



Madison has a standing frame for upright play, weight-bearing and stretching. See how the **Jenx Supine Stander** helps Madison's development.



She has a variety of seating options for different activities, such as a bath seat for bathing or an adaptive car seat for safe travel. Here she is combining long sitting with the portable Jenx **Nursery Table**, which has a high contrast boundary to aid visual awareness of activity space. It also has an adjustable height and angle that can help with bringing toys into a better visual field, aid head control development and upper limb use.

But mum Daniella describes one particular seat as "the best piece of equipment for Madison". That seat is the Jenx Atom!

Initially, when the Atom was first set up it brought the family a "whirlwind of emotions" similar to what many families experience when caring for children with disability.

To Daniella, it re-enforced "the realisation of Madison's predicament. It really hit me hard and to receive this kind of equipment marks a huge change and step in acceptance of what challenges we face with her".

But once Madison was able to sit in the Atom and her family saw all of its adaptable features, it became obvious the Atom would be so much more than a 'chair'.

The family's favourite features are the wheel castors which make mobility of the Atom around the home easy, and the range on the hi-lo base. This range can enable floor play, eye-level interaction with Madison's siblings, and sitting at the family dining table all in one easy foot pedal adjustment!

"It all changed though once I saw her happy little face when she sat in it and how supportive and comfortable it was for her. I am still so thankful for this chair and for the manufacturers who are able to give children such as my little girl all the support she needs in her day-to-day life at home"



Here are some other features of the Atom that are essential to Madison's daily routine and development:

The Multigrip Headrest provides the appropriate amount of support for whenever Madison needs it. It can provide comprehensive support for when she is more tired or just relaxing. But the easily adjustable links can be changed in position and open up the headrest for developing skill and challenging head control. She is currently working on using eye gaze technology to help her communication and learning, and the adjustability of the headrest ensures flexibility for visual scanning, head-turning, or more focussed head control in midline.



The combination of the shoulder protractors, thoracic support pads, and tray have made a huge difference on her trunk stability and upper limb function for play. **"She is able to use her arms a lot easier and therefore using her hands to play with her toys"** Daniella says.

Madison can play safely and independently, and the tray can hold her favourite toys. These features are easily adjusted via tool-free methods. You can quickly replace the tray for caregiving needs or more open play with family. You can flip away the shoulder and trunk supports for easy transfers in and out of the seat, or you can incrementally adjust them in height and width for progressing postural control and skill development.



The modular and tool-free design of the Atom makes it perfect for a variety of sitting activities. Children don't just sit in one way, and they develop their sitting and control through a variety of different sitting postures – long sitting, ring sitting, side sitting, even more relaxed laid-back sitting!

The Atom can be highly supportive, for optimal stability and symmetry, but its open design and features such as tilt-in-space, adjustable back rest, and adjustable hip guides can be perfect for practicing varied stimulating or comfortable postures. Madison is at an age when her neurodevelopment should be at its most prolific and is shaped by experience and exploration of the world around her, so this adjustability for her needs is essential. Here she is showing how she likes to recline and relax to watch her iPad.

Fitness

(Body Structure & Function)

The Atom provides optimal support to create a stable and symmetrical posture that allows for reduced energy expenditure and helps avoid prolonged 'destructive' postures that may affect internal functioning and lead to musculoskeletal abnormalities. However, it also encourages active sitting and a variety of sitting postures vital for building activity levels and reducing sedentary behaviour.

Functioning

(Activity)

The adjustability of the Atom encourages development of postural control and motor skills. Support at the trunk, pelvis, and head allows Madison to focus on her upper limb and fine motor skills – improving her ability to play with toys and communicate non-verbally.

Friends

(Participation)

The Atom enables Madison to experience movement and positioning like her typically developing peers. It can encourage floor-based play or play at table height with friends and its adaptability encourages further progression in development so she can participate in more activities with friends.

Family

(Environmental Factors)

The compact size and mobile base of the Atom means it easily fits into the home environment and can easily be moved from room to room. It can be used for play, therapy a variety of sitting positions and activities. It's ease of use, tool free features and wipe clean surfaces help ensure the care burden associated with its use is kept to a minimum. The hi – lo base and open design ensures easy eye level and physical interaction for Madison with her brother and sister. It can also help reduce care burden by enabling independent play without the need for 'hands on' support.

Fun

(Personal Factors)

The Atom tray can hold some of Madison's favourite toys during playtime. She can interact with her switch-adapted Linkimals or listen to her favourite songs on her iPad.

Future

The Atom will grow with Madison and continue to be an important aspect of her life during her early years. It will continue to aid participation in activities, play and social interaction, whilst helping to maximise development of skills and functional ability. It can also help with her integration into pre-school and school settings when the time comes.

1) World Health Organization. (2001) International Classification of Functioning, Disability and Health (ICF).

2) Rosenbaum, P. & Gorter J. The 'F-words' in childhood disability: I swear this is how we should think! Child: care, health and development. 2011; 38(4): 457–46.