

Lateral Thinking

a bespoke seating case study

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WAYNE - Presenting problems

- Spina Bifida, Kyphoscoliosis
- Discomfort when sitting in wheelchair 'ached all over'
- Only able to tolerate 30 minutes in GPV
- Spent majority of time prone or sitting in a reclined position, with legs tucked underneath him on the floor
- Choosing to crawl around at home rather than use wheelchair due to discomfort

Large gap behind lower back

Poor thigh support



No accommodation for lack of hip flexion bucketed seat!

Feet unsupported

Feet

"An all round success...

... I am able to sit for much longer periods without discomfort & able to do more with my time, like go more places, ... without having to worry if I will be in pain."



Accommodation
for lack of hip flexion

Severe forward ramp,
memory foam rear half,
firmer front half



Upright active position

Improved COG -



Knee block strap

Feet **supported** under seat, no footplates

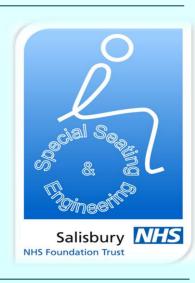
EQUIPMENT - before

- Quickie GPV
- Pudgee cushion
- Vicair back cushion

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EQUIPMENT - after

- Quickie Neon folding frame (light and active)
- Bespoke forward ramped cushion
- Padded strap as a knee block
- Padded foot strap on raise/lower ratchet



Key anatomical challenges

- Limited hip flexion (60°R, 70°L)
- Limited knee extension (90°R, 100°L)
- Severe kyphoscoliosis

Practice challenges

- Lives on his own no care package
- Independent, stable floor to chair transfer essential
- Needed active user wheelchair, folding frame for car

Did it work? ... YES!!

- Sitting tolerance increased to 6+ hours
- Comfort much improved
- Able to transfer from floor > wheelchair independently
- Surprisingly good forward stability
- Able to back wheel balance with ease
- Easier to fit in the car

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