AirGel CUSHIONS

Gel Ovations
Pressure Care Products

Managing Pressure Risk and Asymmetrical Sitting

A clinically adaptable air-and-gel cushion for posture-related pressure management

The Clinical Challenge

For individuals who do not sit symmetrically, pelvic obliquity, windswept posture, postural collapse and functional scoliosis are common in long-term sitting.

These asymmetries result in:

- Higher risk of pressure injury
- Uneven load through the pelvis
- Increased peak pressures under one ischial tuberosity
- Reduced sitting tolerance and comfort

Traditional symmetrical pressure cushions are limited in their ability to accommodate these postural variations without compromising stability or immersion.

The Clinical Approach with AirGel

Effective seating intervention requires both pressure management and postural accommodation.

AirGel has been designed to treat:

- Redistribute pressure through immersion and envelopment
- Allow controlled asymmetrical adjustment to accommodate pelvic obliquity
- Support clinical reasoning rather than forcing symmetrical positioning

What AirGel Does

AirGel combines adjustable air cells with a viscoelastic silicone gel interface.

The gel:

- Deforms under load to promote immersion and pressure redistribution
- Gradually returns to shape to maintain stability and support

Together, the air-cell and gel structure:

- Reduce peak interface pressures
- Maintain stability while allowing movement
- Enable height adjustment on one side of the cushion
- Adapt over time as posture or condition changes

This makes AirGel suitable where asymmetry is present or emerging, and where static, uniform solutions are not appropriate.

High risk of pressure injury | Pelvic obliquity | Windswept posture | Postural collapse | Unilateral loading

Clinical Use: Asymmetrical Adjustment

Using AirGel to Accommodate Asymmetrical Sitting
Graduated height adjustment to support pelvic alignment

Step 1: Insert

- Insert Cushion
- Ensure correct orientation and full insertion

Step 2: Position

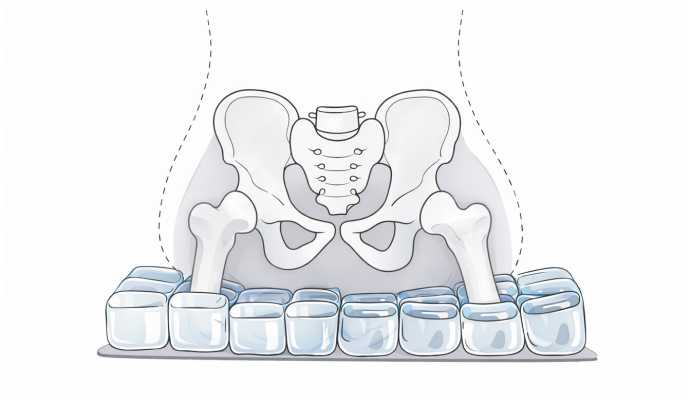
- Seal Cover
  Secure Velcro fastening and smooth surface
- Place AirGel centrally on the seating surface
- Ensure the cushion is correctly oriented and stable

Step 3: Inflate

- Inflate to achieve appropriate immersion
- Avoid over-inflation

Step 4: Adjust for Asymmetry

- Identify the higher or more heavily loaded side
- Gradually release air from the corresponding side of the cushion
- This reduces cushion height locally while maintaining immersion elsewhere



Step 5: Reassess & Review

- Observe pelvic alignment and trunk posture
- Check pressure distribution and comfort
- Confirm stability and sitting tolerance
- Reassess regularly
- Adjust air volume as posture, tone or condition changes

Clinical Tip

Adjust incrementally and reassess posture after each modification. Document pressure management decisions as part of seating review.

24hour Pressure Care

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