Dreamline

WHEELCHAIR CUSHIONS

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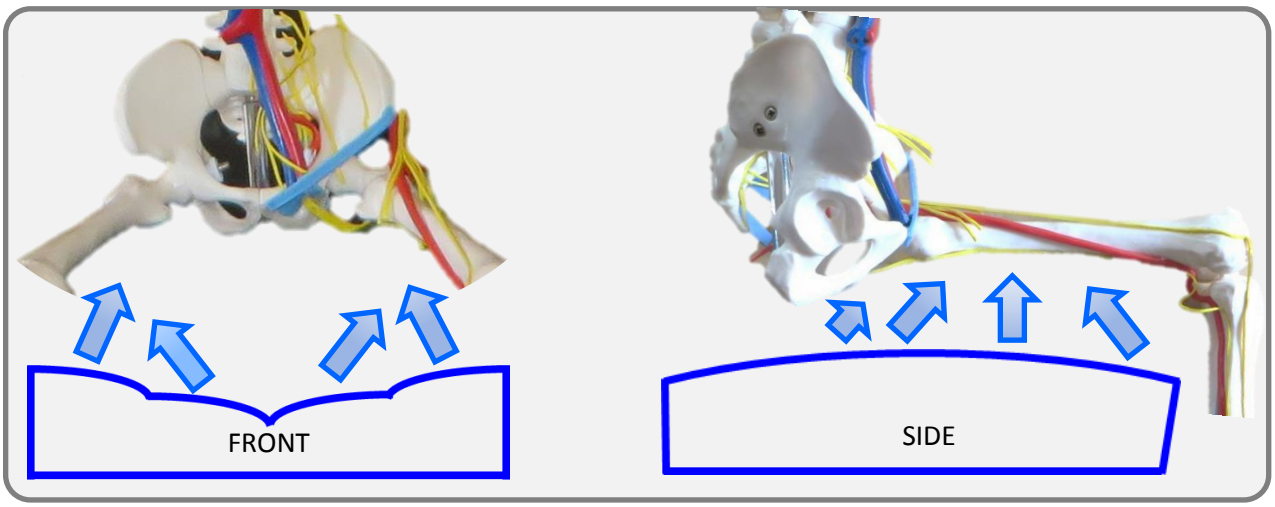
CLINICAL INFORMATION

MIMICS AN AIR CUSHION

The unique curved contouring of the Dreamline cushion greatly increases weight dispersion & reduces the likelihood of pelvic forward migration regardless of how the user is sitting. Although the cushion has a foam construction, the effect of the design mimics an air cushion greatly reducing the risk of pressure & enabling users to sit comfortably for long periods. The design works to reduce pressure to areas of increased weight by dispersing the weight along regions of lesser pressure balancing the weight of the user over the entire cushion. Further pressure is reduced to the coccyx & pelvic girdle with an extended cut-out along the centre of the cushion.



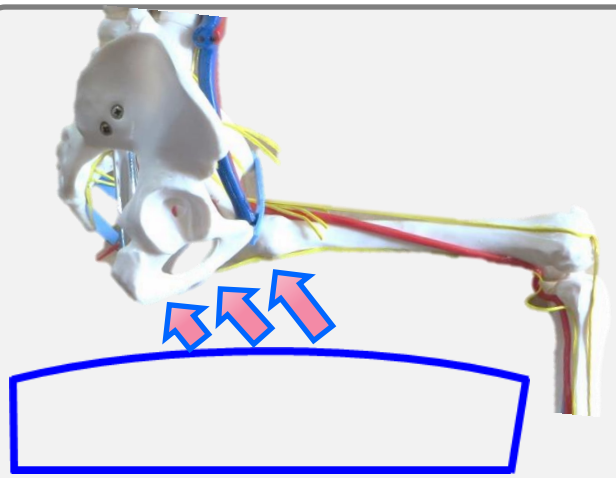
SITTING POSITION

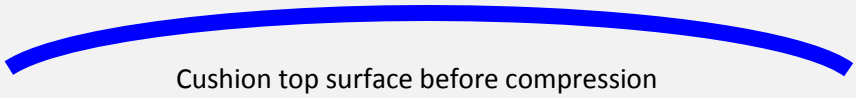
Although the top surface of the Dreamline cushion is curved the effect on the sitting position of the user is the same as that of a flat level cushion.

The cushion encourages an upright neutral or slightly anterior pelvic sitting position which has been proven to be able to sustain significantly more load. The curvature of the cushion reduces the direct downward pressure on the ischials spreading the load to the frontal flatter portion of the ischials which reduces the risk of pressure even with posterior pelvic tilt.

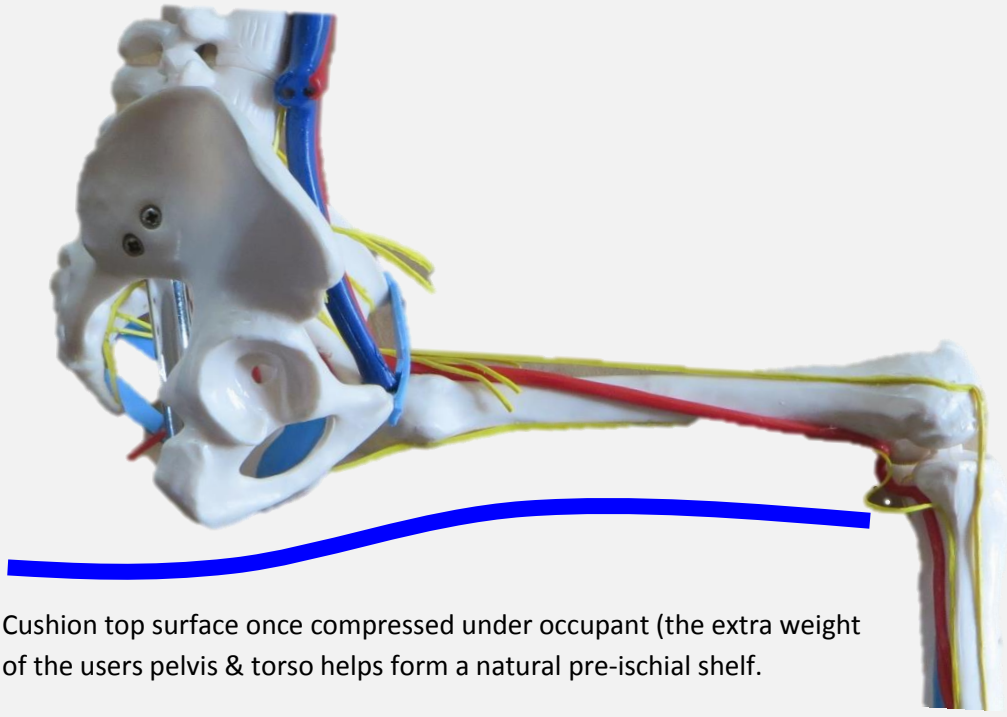
PELVIC FORWARD MIGRATION

The Dreamline cushion's front to rear gradient curvature gently inhibits the forward migration of the pelvis regardless of the position of the pelvis with the curve acting as a gentle but noticeable pre-ischial shelf in which the effect increases with the weight of the user on the cushion.





Cushion top surface before compression



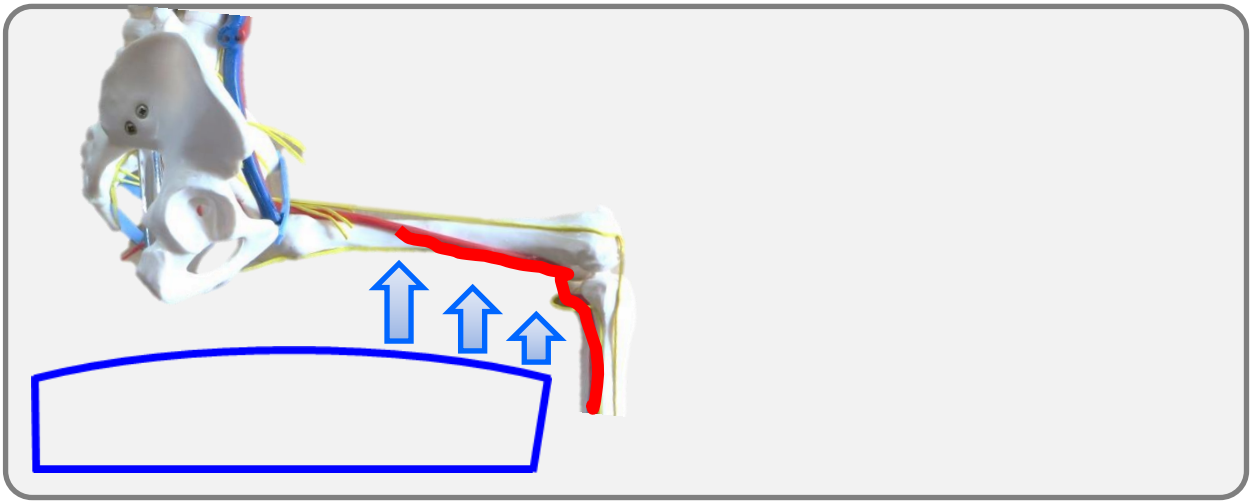
Cushion top surface once compressed under occupant (the extra weight of the users pelvis & torso helps form a natural pre-ischial shelf.

PELVIC STABILITY

The cushion is constructed using high resilient foam with a pressure relieving top layer. The high resilient foam combined with pronounced contouring ensures a stable base to position the pelvis.

IMPROVED CIRCULATION

The curvature design at the front portion both laterally & longitudinally of the cushion reduces pressure to blood vessels behind the user's knees helping to increase blood flow to the lower legs.



CONVEX CURVES & FOAM PROPERTIES

Foam operates best under compression. Tension in foam reduces the compression ability & increases the likelihood of wear & tear. The Dreamline cushion is designed entirely using convex curves which best utilise the compression properties of the foam & minimises foam tension. Further to this, when a convex curve is compressed the surface area becomes greater reducing the tension from cushion covers & other barriers such as hoist slings, diapers & sheep skin overlays which have previously been detrimental to pressure management.

CONCLUSION

Foam cushions have historically been associated with low pressure relief. The unique design of Dreamline cushions utilise the stability & ease-of-management benefits of foam while greatly decreasing & dispersing pressure aligning the effect of the Dreamline cushion more closely to that of air cushions than of its foam counterparts.

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