

# HeadSaver Testing

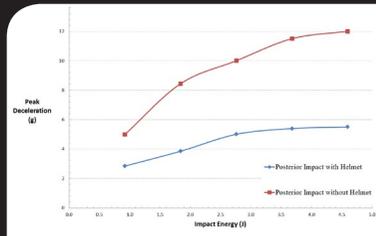
A specially designed test rig was constructed to conduct impact drop tests at pre-determined drop heights. Three impact orientations namely frontal, lateral and posterior impacts were conducted. An accelerometer, mounted on a flat faced striker with a mass of 2.3kg, was released at a distance of 0.04m, 0.08m, 0.12m, 0.16m and 0.20m with respect to the contact surface.



## Test Data:

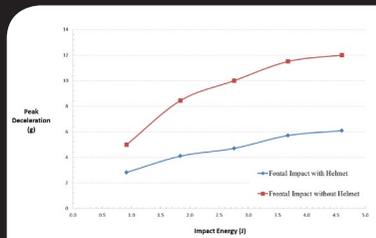
Test data curves for HeadSaver soft helmet at a drop height of 0.04m, 0.08m, 0.12m, 0.16m and 0.20m equivalent to impact energies of 0.92J, 1.84J, 2.76J, 3.68J and 4.6J are provided.

Based on the recorded peak impact forces (for impact tests conducted with and without the HeadSaver soft helmet) and the corresponding impact energies, the energy absorbed (in per cent) vs impact energy for the posterior impact tests were calculated.



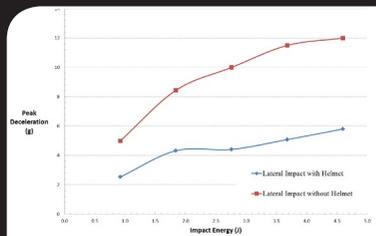
### Posterior Impact Tests

Posterior impact tests conducted for the HeadSaver soft helmet also resulted in a fifty per cent (50%) reduction in the peak force at a drop height of 0.12m.



### Frontal Impact Test

At a drop height of 0.12m, the peak impact force (g) recorded without the HeadSaver soft helmet was observed to be 10g. On the other hand, a peak impact force of 4.7g was recorded with the HeadSaver soft helmet. Therefore, this represents a 53% reduction in the peak impact force.



### Lateral Impact Tests

For a similar drop height of 0.12m, a 56% reduction in the peak impact force was observed for the tested sample.

## Test Observations:

As shown, the peak impact forces were observed to be fairly uniform across the different impact orientations for the tested sample.

## Comments:

For the range of impact tests described and conducted herein, lower peak impact forces were observed with the HeadSaver soft helmet when compared to impact tests conducted without the HeadSaver soft helmet.

To view the full report, go to: [headsaver.com.au/a/Testing](http://headsaver.com.au/a/Testing)



Impact Testing of HeadSaver soft protective helmets by Melbourne Testing Services.  
Report No: MT-11/516  
Date Of Test: October 18th 2011- October 19th 2011. Date Of Report: October 27th 2011



# Brain injury is irreversible!

## Don't take the risk.

Reduce the risk of devastating head and brain injury with HeadSaver - the stylish, lightweight, comfortable, all-soft head protector.



Available in 2 sizes; Small/Medium & Medium/Large.



**Important Note:** While HeadSaver can achieve excellent and impressive results, no product can claim to be 100% effective all of the time. HeadSaver is not guaranteed to work in every individual instance. HeadSaver is not suitable to be used as a head protector either in an industrial or construction environment nor for sporting activities. The HeadSaver is not designed to protect the head from falling objects. Therefore, HealthSaver Pty Ltd and HeadSaver make no implied or express guarantee that their products will prevent injury.

Distributed by



**HealthSaver Pty Ltd,**  
14/140 Wecker Road, Mansfield, QLD 4122, Australia.  
Phone: 1300 767 888 Fax: 1300 767 999  
Email: [info@healthsaver.com.au](mailto:info@healthsaver.com.au)

[www.healthsaver.com.au](http://www.healthsaver.com.au)





## Head Injury is a key risk in senior falls

Brain injuries account for half of all deaths from falls, and the death rate from falls among our elderly has increased by about 55 percent since 1990. One in three seniors aged 65 and older fall with 30 percent requiring medical treatment. Severe injury often results as the veins and arteries of older people are more vulnerable to a sudden blow or jolt to the head.



## The very serious social and economic impact of head and brain injuries

Head injuries, resulting from falls, are among the most serious form of injury which can lead to death, and one of the main causes of nonfatal injuries that limit independent living among people 65 years and older. While medications, such as sedatives and anti-anxiety drugs, often increase the risk of falls and fall-related injuries, poor vision, and just difficulty in moving from place to place put the elderly at risk of a fall that can result in a fatal or debilitating head injury. Brain injury is a very serious medical health injury that directly impacts on the economy. Each year an estimated 135,000 people in Australia sustain a traumatic brain injury. This figure doesn't include other injuries including cuts, bruising, broken noses etc. The impact on their families and caregivers is immense.

## Head Injuries are Preventable

Seniors often develop a fear of falling, causing them to limit activities which leads to reduced mobility. Wearing a **HeadSaver** soft head protector can restore confidence of motion to the elderly, both preserving physical health and increasing senior mobility.

## HeadSaver - The Right Choice for Head Protection.

Comfort and ease of use are just two of the benefits enjoyed by all **HeadSaver** users, from Nursing Home residents and staff to active, independent seniors.

Although we emphasize the importance of our head protection products for the elderly, **HeadSaver** is the right head protector choice for all with concerns about falling or with medical conditions such as Epilepsy, Parkinson's Disease, or Cerebral Palsy, which make them unsteady on their feet.



**HeadSavers** are available for both male and females, designed to fit the lifestyles and specific needs of those who use them. They are available in two sizes which are fully adjustable to fit most people. When placed on the head HeadSaver offers an extremely comfortable fit that holds the HeadSaver in place so that during a fall the HeadSaver should not come off the head. If additional securing to the wearers head is required a detachable chin strap with clip is provided with every HeadSaver.

## So why shouldn't a head protector look like any ordinary headwear?

We believe that dignity (and fashion!) are everyone's right. That's why we have designed and developed various head coverings to "dress up" the HeadSaver soft head protector. Whether it's a sun hat, winter beanie or a fashionable scarf, they are all available as optional items, are easily fitted and can be changed in an instant.



Scarf (Blue or Pink)

Sun Hat

Beanie