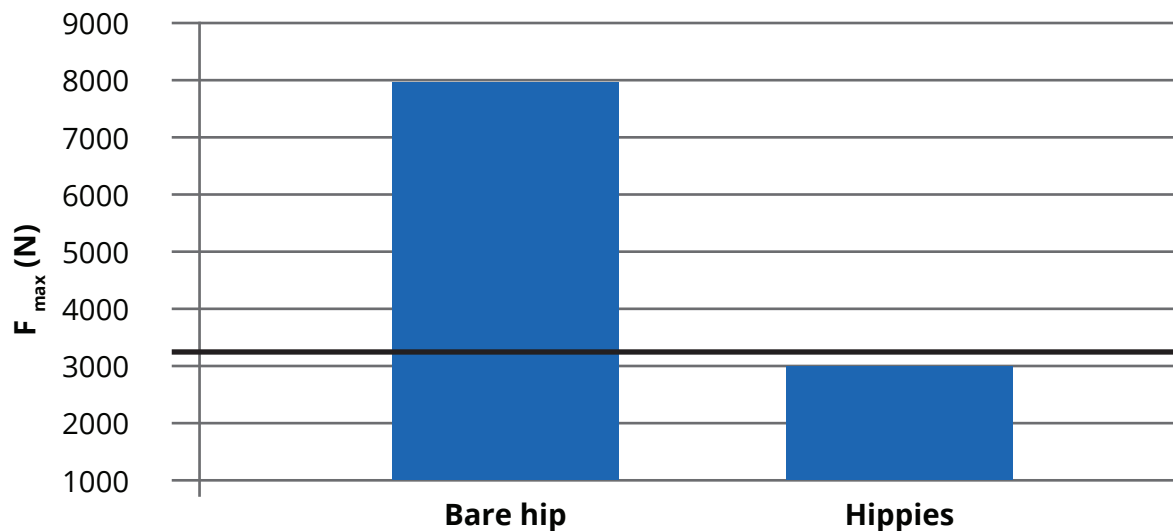


Research report impact tests Hippies hip protectors

Using the test setup described by van Schoor et al. (2006) Hippies hip protector by Dutchblue.com has been tested on impact reduction to the hip. The test setup is developed to measure impact reduction by hip protectors worn at the hip by dropping a weight at the Greater Trochanter and measuring the resulting force at the femur.

The following results are obtained by a series of 3 impacts and averaging the peak maximum force measured at the Greater Trochanter. The line in the graph represents the 3100 N average fracture threshold of the proximal femur of elderly people, Courtney et al. (1995).



From these results it is clear that the Hippies hip protector is able to reduce the peak maximum force of a severe impact below the 3100 N average fracture threshold of the proximal femur of elderly people, Courtney et al. (1995).

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22-06-2015

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22-06-2015

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