

# Author's Accepted Manuscript

Head kinematics during shaking associated with head trauma

T.O. Lintern, N.T. Puhulwelle Gamage, F.H. Bloomfield, P. Kelly, M.C. Finch, A.J. Taberner, M.P. Nash, P.M.F. Nielsen



PII: S0021-9290(15)00393-0  
DOI: <http://dx.doi.org/10.1016/j.jbiomech.2015.07.016>  
Reference: BM7252

To appear in: *Journal of Biomechanics*

Received date: 2 June 2015

Accepted date: 14 July 2015

Cite this article as: T.O. Lintern, N.T. Puhulwelle Gamage, F.H. Bloomfield, P. Kelly, M.C. Finch, A.J. Taberner, M.P. Nash and P.M.F. Nielsen, Head kinematics during shaking associated with head trauma, *Journal of Biomechanics*, <http://dx.doi.org/10.1016/j.jbiomech.2015.07.016>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Head kinematics during shaking associated with abusive head trauma

T.O. Lintern<sup>1</sup>, N.T. Puhulwelle Gamage<sup>1</sup>, F.H. Bloomfield<sup>2</sup>, P. Kelly<sup>3</sup>, M.C. Finch<sup>1</sup>, A.J. Taberner<sup>1,4</sup>, M.P. Nash<sup>1,4</sup>, P.M.F. Nielsen<sup>1,4</sup>

1. Auckland Bioengineering Institute, University of Auckland, Auckland, New Zealand.
2. Liggins Institute, University of Auckland, Auckland, New Zealand.
3. Te Puaruruhau (Child Protection Team), Starship Children's Hospital, Auckland, New Zealand.
4. Department of Engineering Science, University of Auckland, Auckland, New Zealand.

### Corresponding author contact:

Poul Nielsen

Auckland Bioengineering Institute

Level 6, 70 Symonds St

Auckland 1142

New Zealand

+64 9 923 8391

p.nielsen@auckland.ac.nz

**Word count: 3601**

**Keywords:** abusive head trauma, rigid-body computational modelling, head kinematics

Download English Version:

<https://daneshyari.com/en/article/10431285>

Download Persian Version:

<https://daneshyari.com/article/10431285>

[Daneshyari.com](https://daneshyari.com)