

APPENDIX C

Timeline of Research Regarding Short Falls

1984

- N. Aoki & H. Masuzawa, *Infantile Acute Subdural hematoma: Clinical Analysis of 26 Cases*, 61 J. Neurosurgery 273 (1984).

1989

- JR Hall et al., *The Mortality of Childhood Falls*, 29 J. Trauma 1273 (1989). Minor falls, such as falls from furniture or while playing, can be lethal to infants and young children.

2001

- J. Plunkett, *Fatal Pediatric Head Injuries Caused by Short Distance Falls*, 22 Am. J. Forensic Med. & Pathology 1 (2001). Case analysis of 18 short fall head injury deaths, concluding that falls less than three feet can result in fatal head injuries in children.

2002- Jeffrey Havard's Trial

2003

- MT Prange et al., *Anthropomorphic Simulation of Falls, Shakes and Inflicted Impacts in Infants*, 99 J. Neurosurgery 143 (2003). Using an anthropomorphic dummy, forces from short falls were compared to those from shaking. Short falls produced much greater angular acceleration and met injury threshold.
- Scott Denton & Darinka Mileusnic, *Delayed Sudden Death in an Infant Following an Accidental Fall*, 24 Am. J. Forensic Med. & Pathology 371 (2003). Witnessed short fall had lucid interval prior to death from the head injuries sustained.

2007

- HB Gardner, *A Witnessed Short Fall Mimicking Presumed Shaken Baby Syndrome (Inflicted Childhood Neurotrauma)*, 43 Pediatric Neurosurgery 433 (2007). Case study of short fall leading to same injuries as SBS.
- P. Steinbok et al., *Early Hypodensity on Computed Tomographic Scan of the Brain in an Accidental Pediatric Head Injury*, 60 Neurosurgery 689 (2007). Presence of retinal hemorrhages, cerebral edema and intracranial injuries after accidents.

2008

- PD Barnes et al., *Traumatic Spinal Cord Injury: Accidental Versus Non-accidental Injury*, 15 Seminars in Pediatric Neurology 178 (2008). A case where caretaker history was considered inconsistent with injuries, but biomechanics showed that the injuries could have been caused by the short fall described by the caretaker.
- DL Chadwick et al., *Annual Risk of Death Resulting From Short Falls Among Young Children: Less than One in One Million*, 121 Pediatrics 1213 (2008). Confirming that, although rare, short falls can kill.

2009

- Cindy W. Christian, Robert Block and the Committee on Child Abuse and Neglect, *Abusive Head Trauma in Infants and Children*, 123 Pediatrics 1409 (2009). AAP position paper removed the 2001 statement that short falls cannot cause these injuries.
- C. Van Ee et al., *Child ATD Reconstruction of a Fatal Pediatric Fall*, ASME Int'l Mechanical Engineering Congress & Exposition, November (2009). Analyzing the videotaped short-fall death from Plunkett's 2001 paper and calculating accelerations.
- C. Van Ee et al., *Evaluation and Refinement of the CRABI-6 Anthropomorphic Test Device Injury Criteria for Skull Fracture*, ASME Int'l Mechanical Engineering Congress & Exposition, November (2009). Testing accuracy of test device, measuring acceleration of falls leading to skull fractures.
- Robert M. Reece et al., **CHILD ABUSE: MEDICAL DIAGNOSIS AND MANAGEMENT** (Robert M. Reece and Cindy Christian eds., American Academy of Pediatrics 3d ed. 2009). Acknowledging short falls can be fatal.

2010

- Behera et al., *Fatal Accidental Fall From Height in Infants and Children: A Study from South Delhi*, 50 Med., Sci. & L. 22 (2010). Documents fatalities in children after accidental falls.

2011

- PE Lantz & DE Couture, *Fatal Acute Intracranial Injury, Subdural Hematoma and Retinal Hemorrhages Caused by Stairway Falls*, 56 J. Forensic Sci. 1648 (2011). Study proving short falls can kill and retinal hemorrhages can be found after short falls.

2014

- RM Kurinsky et al., *Pediatric Injuries Associated with High Chairs and Chairs in the United States, 2003-2010*, 53 Clinical Pediatrics (Phila.) 372 (2014). Children under three were found to have closed head injuries after falls from high chairs.

2017

- N. Atkinson et al., *Childhood Falls with Occipital Impact*, Pediatric Emergency Care, June 6, 2017, at doi: 10.1097/PEC.0000000000001186. Study on 8 witnessed short falls where the children hit the back of their head and sustained subdural hemorrhages.