Parental Survey to Assess Risk Factors and Incidence of Falls in Pediatric Ambulatory Services

Mary D. Gordon, PhD, APRN, CNS-BC
Department of Nursing Research, Texas Children's Hospital, Houston, TX, USA
Marlene Walden, PhD
Department of Nursing, Arkansas Children's Hospital, Little Rock, AR, USA
Curt C. Braun, PhD
Benchmark Research & Safety, Inc., Moscow, ID, USA
Joseph L. Hagan, ScD
Newborn Center, Texas Children's Hospital, Houston, TX, USA

Purpose:
Falls and the related sequelae represent hazards recognized by healthcare organizations, but evidence describing the incidence of falls in pediatric ambulatory settings is limited. Likely sources of information (e.g., adverse event reporting systems) have not been validated as a means of measuring incidence and are likely to underestimate falls that do not result in injuries. National guidelines provide little guidance on fall prevention strategies in ambulatory settings, and, absent a reliable method to measure incidence, interventions cannot be readily evaluated. Preventing falls in ambulatory settings pose particular challenges, given the high volume and short patient/family contact times. The purpose of the study was to measure the incidence of falls and investigate predictors of falls among pediatric patients in the ambulatory setting as reported by the parents/guardians.

Methods:
This is a descriptive correlational design multicenter research study using survey methodology. The survey was conducted for up to 6 weeks at eight pediatric ambulatory care clinics in 2 large pediatric hospitals (4 clinics each).

Results:
Data were collected from 2418 parents. Survey response rate was 27%. Forty-eight parents reported that their child fell (2.0% fall incidence rate). The mean age of the fallers was 4.2 (standard deviation = 2.9) years and 27 (56%) were female. Of parents reporting a fall, half (50%) occurred in the clinic waiting room, 25% only in the exam room and 25% in both. Only 5 parents (10% of fall population) reported telling a hospital employee about the fall event. Only 3 (6%) of the falls reported by parents were entered in the adverse event reporting systems. In contrast to parent reports, the adverse event report system captured only 6.25% (3/48) of all reported falls. Multivariable logistic regression analysis revealed 3 significant variables predicting falls: younger age (p<.001), predisposing medical condition (p=.013), and medication that causes drowsiness (p=.033).

Conclusion:
Fall incidence in the ambulatory setting are under-estimated by adverse event reporting systems. Children who are at increased risk for falling in the ambulatory setting are younger, have medical conditions that affect their ability to walk, and take medication.
that causes drowsiness. Preventing falls in high risk populations require a targeted risk assessment early in the check-in process and specific strategies to prevent falls during ambulatory care visits.

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Keywords:
Ambulatory setting, Pediatric falls and risk of fall

Abstract Summary:
Falls and the related sequelae represent hazards recognized by healthcare organizations, but evidence describing the incidence and risks of falls in pediatric ambulatory settings is limited. This study engaged parents to assess fall incidence and to investigate predictors of patients who fell from those that did not.

References:
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First Primary Presenting Author
Primary Presenting Author
Mary D. Gordon, PhD, APRN, CNS-BC
Texas Children’s Hospital
Department of Nursing Research
Nurse Scientist
Houston, Texas
USA

Author Summary: Dr. Gordon is a Nurse Scientist at Texas Children’s Hospital and an Assistant Professor in Pediatrics at Baylor College of Medicine. She earned her PhD from UTMB in 2009 and is licensed by the State Board of Nursing as an APRN. She conducts nursing research, teaches and mentors EBP, and collaborates with researchers in the medical center and local Universities. Her research interests are instrument development, pediatric falls, and the nursing work environment.
Second Author
Marlene Walden, PhD
Arkansas Children’s Hospital
Department of Nursing
Nurse Scientist Manager
Little Rock, Arkansas
USA

**Author Summary:** Dr. Walden is the Nurse Scientist Manager at Arkansas Children’s Hospital in Little Rock, Arkansas. She obtained her PhD from University of Texas in Austin, TX. Her research interests include pain assessment and management in preterm neonates, heartbeat music therapy and animal assisted therapy.

Third Author
Curt C. Braun, PhD
Benchmark Research & Safety, Inc.
Chief Scientist
Moscow, Idaho
USA

**Author Summary:** Dr. Braun has been Psychology Faculty at the University of Idaho. He has done numerous scientific presentations and publications during his career. Currently, he volunteers at Texas Children’s Hospital, Department of Nursing Research.

Fourth Author
Joseph L. Hagan, ScD
Texas Children's Hospital
Newborn Center
Research Statistician
Houston, Texas
USA

**Author Summary:** Dr. Hagan has done multiple statistical presentations at the University of Texas School of Nursing and at Texas Children's Hospital. He also has numerous publications.