

## Appendix 1: Literature and expert-driven lexicon

	Direct mentions of fall risk, events or prevention	Intrinsic risk factors	Extrinsic risk factors	Interventions
Unigrams	Fall Fell trip tumble stumble slip incident accident	agitated transfer mobility cane walker crutches gait bedrest wheelchair disoriented overestimates ambulation wandering	safety hazard staffing turnover workload	
Bigrams	Accidental fall near fall fall efficacy fall related reduce falls fall prevention falls analysis falls data fall precautions patient's fall fall risk fall rates fall event geriatric fall	visually impaired transfer score mobility score secondary diagnosis overestimates limitations forgets limitations intravenous therapy heparin lock fall circumstances unsafe behaviors impaired standing impaired sitting impaired walking acute confusion	safety hazard poor lighting insufficient lighting unstable furniture unsafe flooring high turnover staffing patterns staff roles work climate environmental hazard involuntary turnover turnover rate staff conflict staff retention	frequent toileting foot care environmental safety equipment safety hazard communication safety finding safety observation safety surveillance safety devices safety behavior safety procedure safety precautions

recurrent falls  
fall scale

chronic confusion

physical hazard  
staff injury  
unqualified staff  
inadequately assisted  
inadequately supervised

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Trigrams	Fall efficacy scale falls team leader interdisciplinary falls team falls team meeting fall incident report location of fall time of fall falls data trended falls data reported feedback about falls  Fall risk factors documentation of fall fall risk reduction fall prevention practices universal fall precautions patient's fall risk fall risk scores risk for fall history of fall Morse fall scale	history of fall transfer and mobility nurse assist crutches high risk medication low blood pressure low vision precaution hard to reach risk for injury impaired bed mobility impaired physical mobility impaired wheelchair mobility impaired transfer ability	environmental safety problem equipment safety problem reported safety problems work longer hours hazardous physical site staff member ill staff member unwell staff member fatigued staff member inattention staff member distraction  unqualified nursing staff	safety during transfer safety during ambulation
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