Table S1: Potential Counter measures as indicated by case reviews

Housing Element	NEISS Case Narratives	Prevention measures
Bathtub	"Fell in tub hitting head DX: closed head injury" (age 7 yr.)	Install a slip-resistant mat into bathtub or shower floor
	• "Patient was pregnant and slipped while getting out of the shower onto wet floor strained lower back" (age 17 yr.)	Install slip-resistant flooring in bathrooms, especially around baths/showers
	• "Patient getting out of the bath tub and slipped and fell striking chin laceration face" (age 3 yr.)	Install a slip-resistant mat just outside bathtub or shower; install grab bars to improve stability; install water-resistant padding on top areas of bathtubs to create a "forgiving" surfacing
	• "Burned by water in tub, bath water too hot." (age 8 yr.)	Install anti-scald devices such as Thermostatic Mixing Valves (TMV)to limit water temperature
	• "Patient was in the tub with brother, shower door fell on both boys, had numerous cuts, has RT lower leg wound. DX-RT lower leg laceration" (age 3 yr.)	Check for shower doors that my be loose and repair
	• "Patient was trying to sit down in the shower, the soap dish broke and cut her." (age 7 yr.)	Install shower systems with integrated and inverted soap dishes such that nothing protrudes into the shower space
Cabinet	• "Laceration to elbow fell onto corner of bookshelf at home" (age 2 yr.)	Install corner guards and cushions on all hard surfaces in the home Place corner guards on cabinet corners
	• "Patient ran into china cabinet glass broke and cut leg" (age 11 yr.)	Install stickers on glass doors to make them more visible to residents

	• "Slammed hand in cupboard door. DX. Finger skin avulsion, hand contusion" (age 15 months)	Install door stops that prevent hands/feet from getting pinched, crushed or lacerated
	• "Patient sustained an injury to her face when a kitchen cabinet came loose and fell on patients Left side of body." (age 7 yr.)	Inspect installed cabinets to ensure stability
Carpet	• "Fell half flight of stairs, carpeted stairs with plastic on it, cried immediately, DX closed head injury" (age 21 months)	Inspect all carpets and rugs for tripping hazards
	• Patient sustained fracture to lower leg after tripping over a carpet" (age 15 months)	Inspect all carpets and rugs for tripping hazards (eliminate throw rugs or install non-skid tape underneath to maintain stability)
Ceiling/Wall	• "Lacerated eye, sconce fell from wall" (age 5 yr.)	Inspect all lighting and other fixtures and stable and secure (properly installed) Ensure that all ceiling pieces fixtures are stable
	• "Fell on corner of wall when running; DX lacerated scalp" (age 3 yr.)	Install corner cushions on walls
Counter	• "A countertop fell on finger hematoma subgunal left third finger" (age 9 months)	Inspect for loose countertops
	• "Hit forehead on corner of counter, laceration" (age 2 yr.)	Inspect that all counter tops are properly installed and secure, require edges or corners that are rounded (bullnose)
Door	• "Patient's mother was closing a door when patients finger got caught in door resulting in an open distal phalangeal fracture" (age 4 yr.)	Install door stops to prevent hands/feet from getting pinched, crushed or lacerated
	• "Heavy bi-fold closet door fell on patient who was on floor at home, mom heard noise and found patient under fallen door, loc; subdural hematoma" (age 3 yr.)	Inspect all doors to ensure proper installation and structural integrity; replace old/broken doors to prevent from falling
	• Patient at grandmother's house and cut head on screen door." (age 7 months)	Inspect all doors to ensure proper installation and structural integrity; install door stops to prevent hands/feet from getting pinched, crushed or lacerated

Fence	• "Gate fell on him, DX fractured upper leg" (age 3 yr.)	Inspect gates and fencing for structural integrity
Floor	• "DX FB R FT: Splinter in L FT, states she got it sliding in her sock feet in foyer" (age 7 yr.)	Inspect condition of wood floors to holes, loose or missing boards, and overall condition
	• "Laceration: child running at aunt's house, fell onto cousin, then onto the hardwood floor" (age 3 yr.)	Apply non-slip surface to floors to reduce slips and falls
	• "Patient sustained a laceration to RT lower leg on a piece of broken floor tiling laceration leg" (age 11 yr.)	Inspect condition of wood floors to holes, loose or missing boards, and overall condition
Nail	• "Laceration to hand and tooth injury when this teen tripped over a nail – admitted for repairs" (age 16 yr.) • "Patients mom states child was jumping on bed and hit foot on a nail in the wall DX: puncture wound left foot" (age 3 yr.) • "Patient cut hand on a nail sticking out of a cabinet at home" (age 16 months)	Inspect for any protruding nails/screws, particularly on floors, walls and cabinets and replace or address any that are protruding
	• "Stepped on a board with nails sticking out of it thru shoe into foot" (age 5 yr.)	Inspect home for unsafe items/conditions Remove any loose boards/pieces of wood/building supplies
Porch	• "Patient got splinter in his RT foot yesterday walking on deck. Removed. Today wound painful, red, draining pus, IV abx needed." (age 7 yr.)	Inspect outside decking for proper installation, structural integrity and overall condition
	• "Fell through railing on porch. DX supracondylar fracture humerus" (age 6 yr.)	Inspect all railings to ensure proper installation, structural integrity and overall condition Ensure that all components of the porch are in good condition
	• "Fell porch – Fracture elbow" (age 5 yr.)	Install banisters/fences around porch, particularly if it's high
	• "Patient with fracture to left ankle after missing step off porch" (age 18 yr.)	Install railing for porch steps
	• "Running, slipped on wet porch and fell, L elbow pain DX: elbow contusion" (age 10 yr.)	Add coating to reduce slips and falls

Stairs	• "Being carried by mom who was walking up stairs & tripped over a toy & fell hitting patient's head against wooden step, no loc (age 1 month)	Clear the stairs to prevent slipping on objects such as books, toys, clothes
	• "Patient slipped and fell on ice covered sidewalk, pt hit head on a concrete step." (age 13 yr.)	Educate residents about need to clear sidewalks and stairs of ice and snow to prevent falls
	• "Patient fell down 10 stairs. DX: R frontotemporal SDH" (age 2 yr.)	Install baby-gates at top and bottom of stairs Educate residents about how to use and when to stop using
	• "Patient fell 10 ft off side of stairs onto ground." (age 2 yr.)	Inspect all external stairs to ensure proper railings and banisters are in place and in good condition
	• "NS: Fell down 4 carpeted steps, impacted carpeted floor, c/o occipital head injury, denies l.o.c." (age 5 yr.)	Check for any loose boards
Window	• "Cut to arm on broken window glass DX: Arm laceration" (age 16 yr.) • Pushing on window which broke/lacerations to both forearms" (age 7 yr.)	Inspect all windows to ensure proper installation and in good condition
	• "Contusion to hand window fell on hand at home" (age 2 yr.)	Inspect all windows to ensure proper installation and in good condition; Install window stops to limit abrupt window closures Place window guards or stoppers to prevent window from falling on hand or head
	• "Patient fell 5 stories from window." (age 2 yr.) • "Patient pushed out window screen and fell from 2nd floor window onto concrete. DX: R sdh x2, R occ skull FX, closed head injury" (age 1 yr.) • "Patient pushed a TV stand up to a window and fell 4 stories out to the ground. In care of babysitter at time. In & out conscious." (age 2 yr.)	Install window guards on all windows above ground to prevent falls
	• "Left wrist laceration from putting arm through glass window." (age 16 yr.)	Use shatter-proof glass in windows