

Fall Prevention

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Objectives

- Define what is a fall
- Understand how falls affect the DD population
- Introduce tools to assess fall risk
- Review how multiple factors can lead to a fall
- Problem solve how modifications to the environment can improve safety
- Consider safe ways to utilize equipment such as assistive devices and patient lifts
- Practice techniques for transfers and patient safety



Introduction to Falls

A fall happens when a person loses their balance, goes down, and makes contact with a surface or object.



Facts about Falls

- Falls are more common in people with
 Developmental Disabilities (DD) ages 18-64 than in the same age group across the general population.
- People with DD fall as often as elderly people (similar fall rates).
- About 30% of adults with DD fall each year.
- About 65% of adults who fall once will fall again.
- 15% of falls result in serious injury.



Common Causes of Falls

- Poor eyesight
- Muscle weakness
- Unsteady walking
- Seizure disorder
- Pain/Osteoporosis
- Dehydration

- Cognitive impairments or behavioral issues
- Low blood pressure/dizziness
- Environmental risk factors
- Improper footwear



Proper Fitted Clothing







- Clothing should not drape over shoes
- Shoes with laces should always be tied. Trim or replace if needed
- Shirt sleeves should not obstruct hands from gripping grab bars
- Hats or hair should not obstruct eyesight
- Tight clothing can restrict movement, cut off circulation, or delays quick toileting which can lead to falls
- Carrying heavy backpacks or excessive bags affects balance whether held or attached to a walker



Beware of Environmental Hazards

Power Cords



Throw Rugs



Loose Rails/Stairs



No Grab Bars



Wet Floor



Clutter



Dark Halls & Stairs



Snow & Ice





Footware and Clothing

The Ideal Shoe









Medications

Certain medications, as well as combinations of both over-the-counter and prescribed drugs, can increase the risk of falling. Medication management can reduce interactions and side effects that may lead to falls.





Medications

Categories:

- Psychoactive medications, including anticonvulsants, antidepressants, antipsychotics, benzodiazepines, opioids, and sedatives/hypnotics
- Prescription and over-the-counter antihistamines
- Muscle relaxants
- Medications affecting blood pressure
- Anticholinergics, including medications to treat urinary incontinence, overactive bladder, or COPD



Medications

Review prescription drugs, over-the-counter medications, and herbal supplements. Some can cause dizziness, sedation, confusion, blurred vision, or orthostatic hypotension.





Fall Prevention Planning

Planning and actions **BEFORE** a fall happens

What to do WHEN a fall happens

How to respond **AFTER** a fall happens



Planning and actions BEFORE a fall happens





Check your risk for falling

Check YES or NO by each statement.	YES +2	NO 0
I have fallen in the past year.		
I have been advised to use a cane or walker to get around safely.		
Sometimes I feel unsteady when I walk.		
I steady myself by holding onto furniture or walls when I walk.		
I am worried about falling.		
I need to push with my hands to get up from a chair.		

I have trouble stepping up onto a curb.	
I often have to rush to the toilet.	
I have lost some feeling in my feet.	
I take medications that can make me feel lightheaded or tired.	
I take medications that help me sleep or improve my mood.	
I often feel depressed.	
Total:	

Add 2 points for each Yes answer. A score of 4 or more means there may be a fall risk.



From Centers for Disease Control and Prevention (CDC) Stopping Elderly Accidents, Deaths & Injuries (STEADI)

Check for Safety

Use this checklist to find and fix hazards in your home.

Stairs (indoors and outdoors)		
Always keep objects off steps		
Fix loose or uneven steps		
Fix loose handrails		
Make sure there are rails on both sides of the steps		
Make sure the stairs are well lit		
Floors	I	
Move furniture so paths are clear		
Remove throw rugs or use double-sided tape to secure them		
Always keep objects off the floor		
Keep cords out of the way		
Kitchen		
Keep items you use often on lower shelves		
Avoid using step stools		
Clean up spills right away		

Bedrooms	
Use a night light so you can see where you are walking	
Keep a flashlight next to your bed in case of power outages	
Keep areas where you walk tidy. Do not leave anything on the floor	
Use a bed rail if extra assistance is needed to get in and out of bed	
Bathrooms	
Use a non-slip rubber mat on the floor of the tub or shower	
Use a non-slip absorbent bathmat outside of the shower to keep the floor dry	
Have grab bars installed in and next to the shower and next to the toilet	
Miscellaneous	
Check for improper foot ware: socks, backless shoes, heeled shoes, bare feet, worn soles	



Caregivers Play an important role in reducing falls

- Be aware of who may be at risk for falls.
- Report any sudden changes in a person's condition.
- Anticipate the needs of people at risk and meet those needs.

- Provide extra supervision for people at risk.
- Have a plan for communicating risks between all caregiver shifts.



What to do WHEN a fall happens





When a fall happens...

- Stay calm: Take a few deep breaths to relax.
- Assess the situation: Ask the person if they're hurt and if they can get up on their own.
- Check for injuries: Look for bruises, sprains, or broken bones.
- Call for help: If the person is bleeding, in pain, or lost consciousness, call 911 immediately.
- Help them get up: If there are only minor injuries, help the person slowly sit up and then stand.
- **Keep them comfortabl**e: If they're not injured, help them to a comfortable sitting or lying position and stay with them until they feel better.
- Consider the cause: Even if you witnessed the fall, there may be other factors that contributed to it.



The ISP is Key!





Using Cuyahoga DD Resources

Discuss concerns with house supervisor and/or SA to initiate PT referral.



A PT will:

- Check the environment for hazards and recommend ways to improve safety. (Ex. removing tripping hazards, secure loose rugs, reduce clutter, etc.)
- Perform special tests to determine a person's risk for falls.
- **Educate caregivers** on how to keep people safe based on their specific risks and needs.
- Share home exercise programs that improve strength and balance.



Physical Therapists help prevent falls

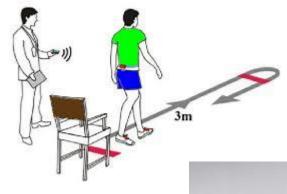
A PT will:

- Assess for assistive device and other equipment to improve safety (cane, walker, rollator, wheelchair, bed rail, bed or chair alarm, non-slip bath mat, toilet safety frame, bath lift)
- May recommend home modifications such as: a tub cut out or accessible shower, handrails or grab bars, stair glide, ramps and vertical platform lifts, improved lighting, etc.
- Review medical history and medications that may increase risk
- Check heart rate and blood pressure at rest and while changing positions (from sitting or lying to standing)
- Perform a simple vision test
- Assess feet and footwear



Tools to Evaluate Fall Risk

• TUG



• SLS



STEADI





Example of Post Fall Assessment

	Post-Fall SPLATT Assessment			
	Name of Individual:	1	Date and Time of Fall:	
1	Name of Staff Person Completing Assessment:			
	1) Summatoria hafara tha fall	☐ Dizziness ☐ Trip/slip ☐ Loss of balance ☐ Legs gave way/Leg	☐ Disorientation/Confusion ☐ Unconsciousness/fainting ☐ Pushed/Shoved ☐ Experiencing urgency	Seizure Unknown Other (list):
	1) Symptoms before the fall	weakness	(moving quickly)	
	If possible, ask individual "Why do you think you fell?"	☐ Community ☐ Living Rm/Dining Rm ☐ Bedroom ☐ Bathroom ☐ Kitchen	☐ Outdoors ☐ Stairs ☐ Basement ☐ Vehicle ☐ Day Program	Unknown Other (list):
	3) Activity (at time of fall) If possible, ask the individual "What were you doing when you fell?"	☐ Transfer ☐ Walking with assistance ☐ Walking unassisted ☐ Reaching for something ☐ Walking with a cane, wa ☐ Other:	Person found on floor Person lowered self to floor Staff lowered person to floor Getting up or down Iker, or other assistive device	Behavioral Incident Bathing Toileting Unknown Transportation
	4) Environmental factors contributing to the fall (check all that apply)	Clutter/obstacles Floor spills Rugs	Wheelchair Improper footwear Outdoor conditions	Unknown Other:



Adapted by the Center for Developmental Disabilities Evaluation and Research (CDDER) from information in the <u>Essential Falls</u>

<u>Management Series: Falls and People with Intellectual & Developmental Disabilities</u> by Rein Tideiksaar (2007) Health Professionals

Press, Inc., Baltimore. ©University of Massachusetts Medical School, CDDER.

How to respond AFTER a fall happens



TEAMWORK!



Transfer Devices

What are patient transfer devices?

Transfer devices help to safely transfer people from one place to another. They reduce the risk of falls, and the physical effort required to move the patient, reducing the risk of injury to patients and caregivers.



Types of Assistive Devices

- Slide Sheets
- Transfer Belt
- Slide Board / Transfer Board
- Manual Standing Aids
- Sit to Stand Devices
- Hydraulic or power lift with sling











Assistive Devices

ASSISTIVE DEVICES FOR WALKING







MOST ALUMINUM DEVICES HAVE a PUSH-BUTTON ENABLES their ADJUSTMENT to CLIENT'S HEIGHT



Home Modifications











Vehicle modifications





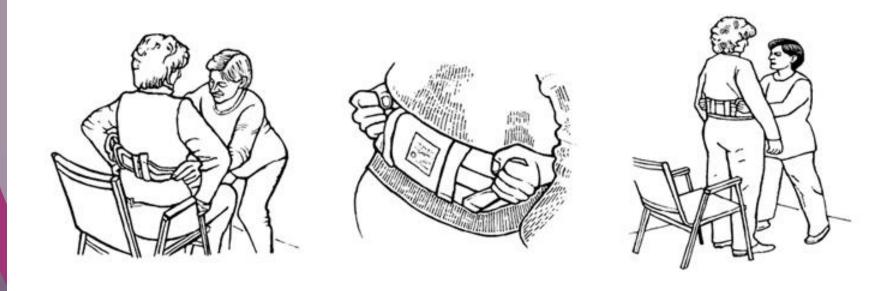


Hands On Practice Session





Use of Gait Belt





Sit to Stand Transfers





Begin sitting upright with your feet flat on the ground and your hands on the armrests of the chair.

- 1. Move your bottom forward in the chair before you start the movement
- 2. Lean your torso forward so your head is over your toes, then press into your feet and hands to stand up.



Standing to Sit

- Wheelchair locks locked
- Caregiver behind and to the side holding gait belt
- Reach with one hand for arm rest of wheelchair or chair
- Verbal cues to sit down slowly





Walking in crowded areas





Stairs







Vehicles and Parking Lots

- Be aware of other vehicles. Others may not see individuals at wheelchair level.
- Look for uneven surfaces and tripping hazards.
- Move the passenger seat back as far as possible with the seat reclined back.
- Turn and sit on the seat, then bring one leg in at a time.







For more information about falls or physical therapy services, contact Lauren Baxter, Adult OTPT Supervisor: 216-598-8901

Cuyahoga County Board of DD
1275 Lakeside Avenue East
216-241-8230 - General Information
216-736-2673 - Eligibility
CuyahogaBDD.org



