Assistive Devices



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Overview

- Introduction
- Types
- Adjustment
- Common Mistakes and Corrections
- Safety During Transfers
- Different Terrains
- Gait Belts
- Summary

What is an Assistive Device?

- Assistive devices (AD) help compensate for the following impairments or conditions:
 - Decreased balance/stability
 - Decreased strength
 - Decreased coordination
 - Pain with weight bearing
 - Amputation
 - Fracture
- Design: IMPROVE FUNCTIONAL MOBILITY

Important Considerations

- The appropriate AD and its proper use are important for safety and security in maneuvering the environment, as well as conserving energy.
- ADs should be selected and fitted by a professional (Physical Therapist) prior to their use.

Important Considerations (cont.)

- The caregiver must be aware of the client's abilities and disabilities;
- The caregiver must provide safety for the client through proper guarding and instructions during activities where ADs are used;
 - May include preparing the client mentally and/or physically for the upcoming activity

Types of ADs

Most Supportive



- Standard Walker
- Rolling Walker (2 wheels)
- Rollator (4 wheels)
- Hemi-walker
- Quad Cane
- Single Point Cane

Standard Walker

- Most stable AD
- No rolling out from under the patient
- Allows for more weight to be pushed through arms/hands, unweighting legs
- Slower walking speed



Rolling Walker

- Faster walking speed
- Easier to move
- Tennis balls or glides on back legs make for easier sliding
- Do NOT need to pick up back legs when walking



 Wheels can roll out from under patient if all four legs are not in contact with ground/floor

Rollator

- Fastest walking speed
- Seat for resting breaks
- Basket for carrying items
- Brakes on handles
- LEAST STABLE full walker
- Does NOT allow for very much weight to be pushed through the hands/arms



Rollator



- ONLY for patients who:
 - Need an immediate place for sitting break
 - Have good balance without needing to lean weight onto walker

Hemi-Walker

- Most stable option for patients without functional use of one arm/hand
- Ability to stand upright
- Larger base of support
- Easily folds together for storage
- Bulky/heavy



Quad Cane



Ability to stand upright
Larger base of support than standard cane

 Allows for more weight to be put through arm/hand

Single Point Cane

- Lightweight, small, simple
- Improves safety and balance compared to walking with no AD
- Least stable AD for walking





HOW DO YOU USE THESE THINGS?

Let's get the height right first...

- Arms at patients' sides
- Standing upright
- Handle of AD should be at approximately wrist height
- Most ADs adjust by lengthening/shortening legs (rollator can be more complicated)

Proper Height



Walkers: Common Mistakes

- Leaning forward/hunching over
- Pushing walker too far in front
- Picking up walker while walking
- Pushing walker with one arm only



Walkers: Correct Use

- Stand up "tall" with both hands on walker
- Stay close to walker
- All four legs of walker should be in contact with ground when stepping

Single Arm ADs: Common Mistakes

- Leaning into cane
- Holding cane on same side as weaker leg
- Dragging cane behind
- Putting cane too far in front of body



Single Arm ADs: Correct Use

- If patient has weaker leg, cane belongs in opposite hand of the weak leg
- Cane moves with weaker leg
- Keep cane vertical with upright posture

Curbs and Steps

- Up with the good!
- Down with the bad!



Sitting/Standing with AD

Sit to stand

- -Scoot to edge of chair
- Pull feet behind knees
- Lean forward ("nose over toes")
- Push from chair
- Do NOT pull on walker
- One hand on walker and one hand on chair is okay

Sitting/Standing with AD (cont.)

• Stand to sit

- -After approaching seat, turn around
- Back up until you feel chair in contact with the back of your legs
- Then, reach backwards for chair BEFORE sitting
- Use arms and legs to control descentDO NOT PLOP!!!

Walking over Different Surfaces

- Slick/Wet
 - Smaller steps
 - Keep AD close to body
 - AD can slide more easily
- Rough/Carpet/Asphalt
 - Pick up feet (NO SHUFFLING!)
 - AD will not slide as easily
 - May need to gently lift AD to move it forward
- BE CAREFUL OF ALTERNATING SURFACES OR THROW RUGS!

Use of Gait Belts with ADs

- Can increase safety when used properly by caregiver
- Should be snug around patient's waist
- One hand on gait belt, the other on patient's shoulder if necessary
- Do not pull on gait belt while walking!
- Stay close to patient



Summary

- Types and usage of assistive devices for walking
- Common mistakes and how to correct them
- Sitting and standing
- Safety and awareness over different surfaces
- Proper use of gait belt for assistance

THANK YOU!!!

- We hope this presentation was helpful and informative.
- Our goal is to increase caregiver and patient knowledge and safety.
- We wish to promote correct selection and utilization of your assistive device.

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David A. Smith, M.D., FAAFP, CMD, Gerlatric Consultants of Central Texas, P.A.

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Mons.

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