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Assistive Technology: Foldable Shower Seat

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Assistive Technology: Foldable Shower Seat

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Mission & Population

The goal of the foldable shower seat is to reduce the efforts required for showering, targeting individuals with circumstances that reduce their energy levels so they can reserve energy to carry out other meaningful activities.

Population:

- Older adults
- Individuals recovering from injuries
- Individuals with permanent disabilities

Device

The foldable shower seat comes in different shapes and sizes, the purpose if the variety is to provide an assistive technology that is client centered and appropriate for different bathrooms. Below are two examples of ADA compliant shower seats



Phenolic Solid WHITE

250 lbs weight capacity 26" x 221/2"

Phenolic Slatted TEAK 250 lbs weight capacity 24" x 15"

(Freedom Showers, n.d.-a; n.d.-b)

Price Range & Comparison

Range from \$150-\$500

Companies:

- Freedom Showers
- **Restroom Direct**
- Harney Hardware
- Grab Bar Specialists



Energy Conservation

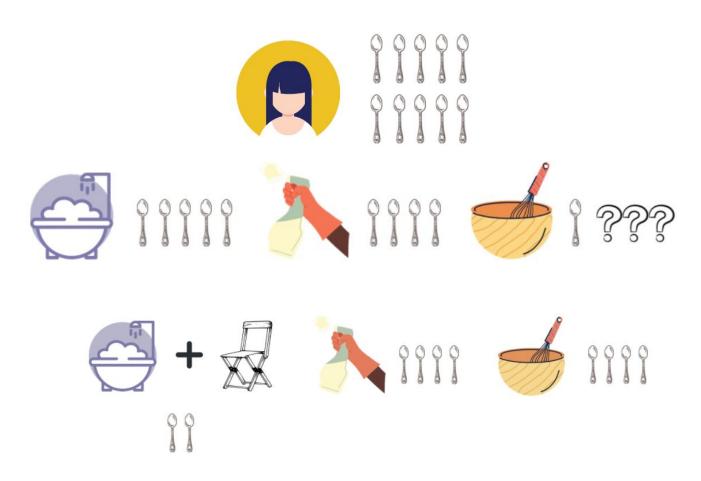


The aim of energy conservation is to improve quality of life by conserving energy for the activities a client likes to do as well as those they have to do within a safe and well structured environment.

- Reduce the consumption of energy
- Adapt daily activities
- 6 P's:
 - Prioritize Ο
 - Plan 0
 - Positioning Ο
 - Pace yourself
 - Positive attitude 0
 - Pursed lip breathing 0

Spoon Theory

The Spoon Theory is used to describe the idea of limited energy, using "spoons" as a unit of energy.



If a person started out with 10 spoons, he/she might not have enough spoon to get through the day to complete all the activities. With the use of this AT, it can reduce the amount of "spoons" needed for showering!



Occupational Impact

Showering/bathing:

Bathing and showering is one of the Activities of Daily Living (ADL) under the Occupational Therapy Practice Framework (OTPF) 4

- Obtaining and using supplies; soaping, rinsing
- Maintaining bathing position

• Transferring to and from bathing positions

Sustaining performance:

- Endurance- persists and completes the task without demonstrating physical fatigue, pausing to rest, or stopping to catch breath
- Paces- Maintains a consistent and effective rate or temp of performance throughout the entire task performance

Physiological changes:





- Hot showers increases blood pressure and heart rate Prescription and nonprescription medicines can make
- you light headed or affect your balance.

Examples of medications:

- Antibiotics
- Blood pressure medicines
- Medicine used to treat depression and anxiety
- Pain medicines
- Medicines used to treat cancer (chemotherapy)

Cause of dizziness:

Orthostatic Hypotension symptoms:

- Feeling lightheaded or dizzy after standing up
- Blurry vision
- Weakness
- Fainting (syncope)
- Confusion



Strategies for shower safety:

Medication

• Know side effects of your medication and don't take blood pressure medication before showering

Water Intake

 Drink one glass of water before shower to help lower blood pressure

Blood Pressure

 Check your blood pressure before showering (normal = 120/80 mmHg)

Recovery from Orthostatic Hypotension

 Stop moving immediately and then sit down until symptoms subside

Social/Community Implications

Community Implications:

- Proper Installation • Decrease risk of injuries
- Moisture/Mold • Wall studs
- Materials/Budget
- Sizing
- Family Usage

• Universal Design Social Implications:

- Increases an individual's independence
- Discrete

Installation

Installation Requirements:

- Experienced carpenter
- Strong wall support
- Tools
- Electric drill, punch, measuring tape
- OT can provide a valuable role

Installation Process:

- After wood blocking is placed and the wall finish has been installed. the shower seat can be mounted
- Height 17-19 inches above floor (depending on user height)
- Mark flange and wall bracket screw locations
- Use punch hammer to nick tile
- Use masonry bit and drill to anchor hardware
- Secure shower seat to wall
- Test the seat to make sure it is secure

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- Preventable with waterproof sealants
- Bamboo/ Marble/ Granite





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