SPHM Solutions
Everywhere for Everyone:
In the best interest of
the patient and
their caregivers

Tony Hilton DrPH, MSN, RN, FNP, CRRN
National Safe Patient Handling and Mobility Program Manager
Veterans Health Administration
Washington DC.
Safe Patient Handling and Mobility (SPHM) practices have come a long way over the past 25 years. VHA started addressing reduction of nursing staff injuries in long term care settings and found that over time all direct care providers are at risk for Musculoskeletal Injuries (MSI) due to manual patient handling techniques. The evidence is clear that manually handling patients that exceed 35 pounds causes excessive forces on the musculoskeletal system and that these repetitive activities causes significant harm to direct care providers compared to other industries, as reported by Waters (2007).

In 2008 the Veterans Health Administration (VHA) implemented a comprehensive enterprise wide national directive program requiring all health care systems to provide alternative technological solutions to manual patient handling techniques (such as overhead lift devices) which has resulted in a 50% reduction in staff injuries related to patient handling over 10 years. VHA is currently measuring not only staff injuries related to patient handling techniques, but also patient outcomes related to SPHM directives. VHA has exhibited a dramatic cultural change through SPHM programs and the addition of early mobility/activity/exercise programs that has positively impacted patient outcomes, including a reduction of falls; prevention of hospital acquired pressure injuries, catheter associated urinary tract infections (CAUTI), and central line associated bloodstream infection (CLABSI); and reduced hospital length of stay (LOS), ventilator days, and functional decline in the acute care and long term care settings. Injuries related to patient handling have decreased by 50% over the last 10 years. We are now expanding from inpatient settings to offer SPHM technologies to Veterans and their caregivers in their homes and communities.

Personally, working as an APN in 700 bed Level I Trauma Center at a University Health Care system for 23 years, I never would have anticipated that SPHM programs could and should have been offered to all Health Care Systems (HCS) and settings. Professionally, in my role as the SPHM National Program Manager for the VHA, I call on all HCS systems in the private sector and other government health care systems to develop an action plan to implement an evidence-informed SPHM program as part of a culture of safety based on principles of High Reliability Organizations (HRO). One of the main pillars of HRO is Safety Culture. One of the principles of Safety culture is “no blame”. Focus not on the person involved with punitive intent, but encourage all staff to look for potential problems before they occur, reward reporting of near misses, and focus on the organizational factors (policies, processes, etc.) which result in any harm by performing purposeful root cause analyses. This document represents a pathway to facilitate implementation of SPHM programs for all health care providers in every clinical setting. It is no way all-inclusive but begins to illustrate where SPHM can live and suggests associated technologies that can best support safety initiatives for staff, patients, and their caregivers. Thus, benefiting our Veterans and impacting their quality of life by reducing undue harm. The VHA acknowledges many health care providers are providing care to our Veterans outside of the VHA and desires to support any efforts for SPHM implementation success. The goal is to work together in health care and expand the principles of SPHM to everyone everywhere.
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<th>Department/Service</th>
<th>Caregiver high risk tasks</th>
<th>Equipment and technology solutions</th>
<th>Potential patient outcome measures</th>
<th>Technology Improvements needed</th>
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<tr>
<td>Labor &amp; Delivery</td>
<td>• Limb Holding • Turning • Repositioning • Lateral transfers • Side lying • Epidural positions • Delivery positions • C-Section positions • Awkward positions • Foley cath insertion • Ambulation</td>
<td>• Overhead lifts* • Floor-based full body sling lifts • Floor based powered and non-powered sit to stand devices • Air transfer devices* • Friction reducing devices • Power drive GYN stretchers/beds* • Air powered lifting device</td>
<td>• Falls reduction • Pain management • Improved patient comfort • minimize birthing process trauma • Improved access for procedures • Improved patient satisfaction</td>
<td>• Bariatric suite with adequate equipment, space and design • Bariatric SPHM equipment for technology dependent patients • Bedside Furniture to accommodate families of all sizes • Power drive beds and stretchers</td>
</tr>
<tr>
<td>Pediatrics / NICU</td>
<td>• Applying of Prosthetic devices, e.g. body jackets • Quadriplegia • Ventilator Dependent • Uncooperative • Limited comprehension • Aggressive behaviors • Sensory disorders</td>
<td>• Overhead lifts* • Floor based full body sling lifts • Floor based powered and non-powered sit to stand devices • Air transfer devices • Friction reducing devices • Air powered lifting device</td>
<td>• Patient friendly technology to encourage safer mobility • Utilizing play for therapy • Sensory devices</td>
<td>• Bariatric Kid-friendly attractive play technology, non-intimidating to kids • Built in play devices / sensory stimulation • Accident prevention and elimination of hanging points • Child-proof features</td>
</tr>
<tr>
<td>Physical Medicine &amp; Rehabilitation (OT, PT, Kinesiology, Chiropractic)</td>
<td>• Ambulation, balance &amp; exercise training • Transfers • Limb holding • Awkward positions • All mobility tasks • Joint mobilization • Joint manipulation</td>
<td>• Overhead lifts* • Floor based full body sling lifts • Floor based powered and non-powered sit to stand devices • Air transfer devices • Friction reducing devices • Air powered lifting device</td>
<td>• Facilitation of improved patient function • Potential to reduce Length of stay</td>
<td>• Bariatric Therapy equipment available for outdoors • Access to more SPHM Bariatric equipment for therapy in multiple settings.</td>
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*Items are preferred devices
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</table>
| Respiratory Care Practitioners Primary Care, Specialty Care Medical providers (MD/NP/PA) | • Intubation  
• Chest PT  
• Ambulation & exercise  
• Assisting in care  
• Repositioning  
• Transfers  
• CPR  
• Awkward positions to perform procedures | • Intubation pillow*  
• Overhead lifts*  
• Floor-based full body sling lifts  
• Floor based powered and non-powered sit to stand*  
• Floor based lifts  
• Air transfer devices*  
• Friction reducing devices*  
• Air powered lifting device | • Rapid ET tube placement  
• Reduction in Hospital Acquired Pneumonia due to increased mobility.  
• Improved patient comfort  
• Falls reduction | • Expanded capacity tracheostomy tyes, face masks, CPAP/BIPAP devices  
• Improved patient securing technology for rapid access and precise procedures. |

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<tr>
<td>Operating Room/ Perioperative, PACU, Short Stay Unit (SSU)</td>
<td>• Lateral transfers • Turning • Repositioning • Limb holding • Proning • Lifting of OR bed attachments • Lateral decubitus positions • Low OR tables during procedures • Transferring patients in beds</td>
<td>• Overhead lifts* • Floor-based full body sling lifts • Floor based powered and non-powered sit to stand • Air transfer devices* • Friction reducing devices • OR tables with features to facilitate safe positioning*</td>
<td>• Improved positioning for effective procedures • Improved patient comfort • Reduced skin shearing and pressure sores • Fall prevention • Minimizing nerve damage due poor positioning.</td>
<td>• Bariatric integrated overhead lifts in booms to facilitate pannus holding or securing, limb holding, lateral and proning and positioning. • OR table and C Arm technology expanded capacity. • OR Tables that monitor pressure points and by voice command; remind the nurse to check pressure point. • OR tables such as swiss army knife or inspector gadget attachments that pop up or by remote are part of the bed and made of a material that doesn’t add weight to the table. • A drive through OR bed for outpatient surgery procedures. The patient remains on the outpatient/surgical bed from ambulatory check-in to OR and back to preop for discharge. Bed material should not add to weight of table or table should have a driving device such as is done for moving supplies and luggage to and from the airplanes. • An automated device that straps around patient legs and hoists them up for the nurse to position lithotomy.</td>
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<tr>
<td>Dialysis inpatient and</td>
<td>• Lateral transfers&lt;br&gt;• Wheelchair transfers&lt;br&gt;• Weights&lt;br&gt;• Hypotensive episodes position-ing&lt;br&gt;• Repositioning</td>
<td>• Overhead lifts*&lt;br&gt;• Floor-based full body sling lifts&lt;br&gt;• Floor based powered and non-powered sit to stand*&lt;br&gt;• Air transfer devices*&lt;br&gt;• Non friction reducing devices*&lt;br&gt;• Air powered lifting device</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable treatment and transfer&lt;br&gt;• Patient satisfaction</td>
<td>• Bariatric power drive height adjustable extra wide chairs with Trendelenburg features, and foot extensions, attached tabletops, w/ scales</td>
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<td>outpatient</td>
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<tr>
<td>Oncology inpatient and</td>
<td>• Chemotherapy equipment&lt;br&gt;• Transfers&lt;br&gt;• Repositioning&lt;br&gt;• Ambulation&lt;br&gt;• Low seating and awkward positions</td>
<td>• Overhead lifts*&lt;br&gt;• Floor-based full body sling lifts&lt;br&gt;• Floor based powered and non-powered sit to stand*&lt;br&gt;• Air transfer devices&lt;br&gt;• Friction reducing devices&lt;br&gt;• Motorized elevated toilet lift seat.&lt;br&gt;• Air powered lifting device</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer</td>
<td>• Bariatric Height adjustable extra wide chairs with foot extensions with attached tabletops</td>
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<td>outpatient</td>
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<tr>
<td>Cath/EP Lab</td>
<td>• Lateral transfers&lt;br&gt;• Wheelchair transfers</td>
<td>• Overhead lifts&lt;br&gt;• Lateral Air Transfer Device* or roll boards&lt;br&gt;• Portable or overhead lift outside of cath lab</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer&lt;br&gt;• Access to safe procedure</td>
<td>• Bariatric weight and width capacity table&lt;br&gt;• Consider Integrated overhead lift/boom systems</td>
</tr>
<tr>
<td>Diagnostic Radiology</td>
<td>• Wheelchair transfers&lt;br&gt;• Lateral transfers&lt;br&gt;• Ambulation&lt;br&gt;• Standing&lt;br&gt;• Positioning&lt;br&gt;• Vertical lift assistance from standing position up to procedure table</td>
<td>• Overhead lifts*&lt;br&gt;• Floor-based full body sling lifts*&lt;br&gt;• Floor based powered and non-powered sit to stand&lt;br&gt;• Air transfer devices*&lt;br&gt;• Friction reducing devices&lt;br&gt;• Low/High Mobile lift mate.&lt;br&gt;• Air powered lifting device</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer&lt;br&gt;• Access to procedure</td>
<td>• Bariatric weight and width capacity table.</td>
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<tr>
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<tr>
<td>Mental Health and</td>
<td>• Fall rescue</td>
<td>• Floor-based full body sling lifts*</td>
<td>• Falls reduction</td>
<td>• Bariatric overhead ceiling lift full room coverage that is not accessible to patient but fully accessible to caregivers</td>
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<tr>
<td>Psychiatric units</td>
<td>• Aggressive Behaviors management</td>
<td>• Floor based powered and non-powered sit to stand and transfer devices*</td>
<td>• Skir shear reduction</td>
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<td></td>
<td>• Seizures</td>
<td>• Lateral air transfer device*</td>
<td>• Comfortable transfer</td>
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<td></td>
<td>• Total care</td>
<td>• Air powered lifting device*</td>
<td>• Access to procedure</td>
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<td>• Therapeutic containment</td>
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<tr>
<td>Nuclear Medicine</td>
<td>• Lateral transfers</td>
<td>• Overhead Lifts</td>
<td>• Falls reduction</td>
<td>• Bariatric, length, weight and width capacity tables</td>
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<td></td>
<td>• Repositioning</td>
<td>• Air transfer devices*</td>
<td>• Efficiency in procedures</td>
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<td>• Friction reducing devices</td>
<td>• Patient comfort</td>
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<tr>
<td>Interventional Radiology</td>
<td>• Lateral transfers</td>
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<td>• Bariatric, length, weight and width capacity tables.</td>
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<td></td>
<td>• Repositioning</td>
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<td>• Overhead ceiling lift integrated in boom systems.</td>
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<td>• Side lying positions</td>
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<td>• C Arm able to accommodate wider table.</td>
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<td>• Proning positions</td>
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<td>• Bariatric Integrated boom overhead ceiling lifts can be explored.</td>
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<td></td>
<td>• Table too narrow to mobilize patient.</td>
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<td>GI Lab</td>
<td>• Wheelchair Transfers</td>
<td>• Overhead lifts*</td>
<td>• Falls reduction</td>
<td>• Bariatric, length, weight and width capacity power drive stretchers.</td>
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<tr>
<td></td>
<td>• Lateral transfers</td>
<td>• Floor based lifts</td>
<td>• Skin shear reduction</td>
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<td></td>
<td>• Proning</td>
<td>• Air transfer devices*</td>
<td>• Comfortable transfer</td>
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<td>• Pushing on Abdomen</td>
<td>• Friction reducing devices</td>
<td>• Access to procedure</td>
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<td>• Abdominal pressure aids</td>
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<tr>
<td>ED &amp; Urgent Care Centers</td>
<td>• Car extraction</td>
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<td>• Bariatric, length, weight and width capacity power drive stretchers.</td>
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<td>• EMS Transfers</td>
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<td>• Lateral transfers</td>
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<td>• Gurney pushing</td>
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<td>• Repositioning</td>
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<td>• Turning</td>
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<td>• Limb holding</td>
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<td>• Proning</td>
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<td>• Seizures</td>
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<td>• Aggressive behaviors</td>
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<td>• Proning sling.</td>
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<tr>
<td>Ophthalmology/Vision Dental, Audiology Speech and Language Blind Rehabilitation</td>
<td>• Wheelchair Transfers • Positioning</td>
<td>• Overhead lifts* • Floor-based full body sling lifts • Floor based powered and non-powered sit to stand • Wheelchair lift recliner* • Air powered lifting device</td>
<td>• Falls reduction • Skin shear reduction • Comfortable transfer • Access to procedure</td>
<td>• Bariatric, length, weight and width capacity chairs and exam tables. • Audiology booth to accommodate lifting/transferring device</td>
</tr>
<tr>
<td>Dementia and Alzheimer’s Units</td>
<td>• Aggressive Behavior • Assaults • Ambulation • Wheelchair transfers • Repositioning • Fall rescue • Hygiene Care/toileting/Showering</td>
<td>• Overhead lifts* • Floor-based full body sling lifts • Floor based powered and non-powered sit to stand • Floor based lifts • Air transfer devices* • Friction reducing devices • Air powered lifting device • Floor based Lifts for hygiene/water resistant</td>
<td>• Falls reduction • Skin shear reduction • Comfortable transfer • Access to procedure • Dignity/Autonomy</td>
<td>• Existing technology • Bariatric patients tend to be minimal in this population</td>
</tr>
<tr>
<td>ICU-cardiac, medical, surgical, cardiovascular transplantation, Code teams, Rapid Response Teams</td>
<td>• Wheelchair transfer • Lateral transfers • Turning and repositioning • Proning • Limb holding • Sitting • Ambulation • Intubation • Medical procedures</td>
<td>• Overhead lifts* • Floor-based full body sling lifts • Floor based powered and non-powered sit to stand • Floor based lifts • Air transfer devices • Friction reducing devices • Air powered lifting device • Powered drive beds*</td>
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| **Medical surgical units, Orthopedics, Tele, SDU, Long term care, Burn unit, Hospice, Palliative care** | • Lateral transfers  
• Wheelchair transfers  
• Repositioning in bed/chair  
• Toileting  
• Showering  
• Limb holding  
• Turning  
• Compression hose Application  
• CPM machine | • Overhead lifts*  
• Floor-based full body sling lifts  
• Floor based powered and non-powered sit to stand  
• Floor based lifts*  
• Air transfer devices*  
• Friction reducing devices  
• Air powered lifting device  
• Powered drive beds  
• Floor based Lifts for hygiene/water resistant | • Falls reduction  
• Skin shear reduction  
• Comfortable transfer  
• Access to procedure  
• Reduction in HAP wounds and lungs  
• Early ambulation  
• Reduction in LOS Falls reduction  
• Access to procedure  
• Reduction in incontinence  
• Dignity/Autonomy | • Improved access to bariatric slings e.g. pannus holder, turners, limb holders, repositioning  
• Bariatric expandable width and length power drive beds  
• Bariatric bed linen and clothing  
• Integration of fitted bed sheet/sling air transfer device |

| **Ambulatory Care Clinics**  
**Primary Care Specialty Care** | • Lateral transfers  
• Wheelchair transfers  
• Repositioning in exam table/chair  
• Toileting  
• Limb holding  
• Turning  
• Compression hose Application  
• Car Extraction | • Overhead lifts*  
• Floor-based full body sling lifts  
• Floor based powered and non-powered sit to stand*  
• Floor based lifts*  
• Air transfer devices*  
• Friction reducing devices  
• Scales  
• Air powered lifting device  
• High/low exam tables | • Falls reduction  
• Skin shear reduction  
• Comfortable transfer  
• Access to procedure  
• Ability to examine patient outside of wheelchair on exam table | • Bariatric, length, weight and width capacity chairs  
• Access to swivel tables and accessories to minimize awkward positions |

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<tr>
<td>Home and Community Care, schools, sports, recreation</td>
<td>• Lateral transfers&lt;br&gt;• Wheelchair transfers&lt;br&gt;• Repositioning in bed/chair&lt;br&gt;• Toileting&lt;br&gt;• Showering&lt;br&gt;• Limb holding&lt;br&gt;• Turning&lt;br&gt;• Compression hose Application&lt;br&gt;• CPM machine&lt;br&gt;• Vehicle transfer*&lt;br&gt;• Extraction from floor or ground&lt;br&gt;• Emergency Evacuation devices&lt;br&gt;• Assisted ambulation</td>
<td>• Overhead lifts*&lt;br&gt;• Floor-based full body sling lifts&lt;br&gt;• Floor based powered and non-powered sit to stand&lt;br&gt;• Slings, sheets and repositioning straps.&lt;br&gt;• Powered toilet lifting devices&lt;br&gt;• Floor based lifts&lt;br&gt;• Vehicle-mounted lifts&lt;br&gt;• Air transfer devices&lt;br&gt;• Friction reducing devices&lt;br&gt;• Ambulation device&lt;br&gt;• Air powered lifting device&lt;br&gt;• Indee lifts</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer&lt;br&gt;• Access to procedures and community activities.&lt;br&gt;• Safe Participation in community activities.</td>
<td>• Improved healthcare access to:&lt;br&gt;• Sports/leisure Swimming/&lt;br&gt;Kayaking&lt;br&gt;• Hand cycling&lt;br&gt;• Skiing&lt;br&gt;• Golf&lt;br&gt;• Beach&lt;br&gt;• Movies&lt;br&gt;• Shopping&lt;br&gt;• Eating out&lt;br&gt;• Travel by Air, Auto, Cruise, train&lt;br&gt;• School&lt;br&gt;• Health care&lt;br&gt;• Alternative therapies&lt;br&gt;• Participation in all community activities.</td>
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<td>Clinical Lab</td>
<td>• Accommodation for bariatric wheelchairs and scooters&lt;br&gt;• Lateral transfers&lt;br&gt;• Repositioning</td>
<td>• Bariatric Blood draw chairs and tables&lt;br&gt;• Stations to accommodate wheelchairs scooters</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer&lt;br&gt;• Access to procedure</td>
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<tr>
<td>MRI</td>
<td>• Lateral transfers&lt;br&gt;• Repositioning&lt;br&gt;• Lifting</td>
<td>• Overhead lift in holding area.<em>&lt;br&gt;• Lateral Air transfer in MRI</em>&lt;br&gt;• Friction reducing devices</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer&lt;br&gt;• Access to procedure</td>
<td>• Bariatric MRI weight and width capacity table.&lt;br&gt;• Wider barrel diameter</td>
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| CT, PET Scanner, SPECT, ultrasound, Mammography | • Lateral transfer  
• Repositioning  
• Patient unstable bearing weight standing | • Overhead lifts*  
• Floor based lifts  
• Air transfer devices*  
• Friction reducing devices  
• Air powered lifting device | • Falls reduction  
• Skin shear reduction  
• Comfortable transfer  
• Access to procedure | • Bariatric weight and width capacity table. |
| EMS  
Interfacility Transfers  
Non-medical emergency transport  
Emergency, Air and Ship Transport | • Lifting of stretcher and patients into vehicle.  
• Limited space in vehicle / air carrier to perform care / duties  
• Awkward positions for CPR, intubation, procedures.  
• Seizure activity protection  
• Bystander and animal/pet interference | • Power lift and load stretchers*  
• Lateral transfer devices*  
• Air powered lifting device | • Falls reduction  
• Skin shear reduction  
• Comfortable transfer  
• Access to procedure | • Bariatric EMS vehicles, power drive stretchers that are wider and longer with associated equipment and supplies.  
• Powered air transfer devices. Portable lift devices.  
• Enhancement of work safety program in community setting including stairway mobility and transfers with medical equipment, restraints, aggressive behaviors.  
• Equipment that is mobility time efficient |
| Simulation Training Lab | • Wheelchair transfer  
• Lateral transfers  
• Turning and repositioning  
• Limb holding  
• Sitting  
• Ambulation  
• Intubation  
• Vehicle transfer  
• Medical procedures | • Overhead lifts*  
• Floor-based full body sling lifts  
• Floor based powered and non-powered sit to stand  
• Floor based lifts  
• Air transfer devices  
• Friction reducing devices  
• Air powered lifting device  
• Simulation EMS transport | • Falls reduction  
• Skin shear reduction  
• Comfortable transfer  
• Access to procedure | • Access to most patient care equipment and supplies listed in departments and services for training purposes.  
• Bariatric manikins |

*Items are preferred devices
<table>
<thead>
<tr>
<th>Department/Service</th>
<th>Caregiver high risk tasks</th>
<th>Equipment and technology solutions</th>
<th>Potential patient outcome measures</th>
<th>Technology Improvements needed</th>
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</thead>
<tbody>
<tr>
<td>Emergency Disaster Management</td>
<td>• Vertical Evacuation&lt;br&gt;• Lateral Evacuation&lt;br&gt;• Lateral transfers&lt;br&gt;• Wheelchair transfers&lt;br&gt;• Bed transfers</td>
<td>• Sleds with braking/safety&lt;br&gt;• Evacuation chairs&lt;br&gt;• Inflatable evacuation devices</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer&lt;br&gt;• Access to procedure</td>
<td>• Overhead lifts*&lt;br&gt;• Floor based lifts&lt;br&gt;• Air transfer devices*&lt;br&gt;• Friction reducing devices&lt;br&gt;• Air powered lifting device</td>
</tr>
<tr>
<td>Morgue and Funeral Home</td>
<td>• Lateral transfers&lt;br&gt;• Limb holding&lt;br&gt;• Repositioning&lt;br&gt;• Vertical lifting</td>
<td>• Overhead ceiling lifts&lt;br&gt;• Floor based mobile lifts&lt;br&gt;• Lateral Air transfer Devices</td>
<td>• Cadaver/patient Dignity&lt;br&gt;• Preventing damage to the remains</td>
<td>• Bariatric morgue power drive stretchers that are wider, deeper, and longer.&lt;br&gt;• Bariatric morgue refrigeration&lt;br&gt;• Increase the footprint of morgue&lt;br&gt;• Power lifting for transport vehicles</td>
</tr>
<tr>
<td>In house transport and wheelchair escort Services</td>
<td>• Wheelchair transfers&lt;br&gt;• Lateral transfers&lt;br&gt;• Ambulation&lt;br&gt;• Standing&lt;br&gt;• Positioning&lt;br&gt;• Vertical lift assistance from standing position up to procedure table</td>
<td>• Motorized wheelchairs&lt;br&gt;• Overhead ceiling lifts&lt;br&gt;• Floor based mobile lifts&lt;br&gt;• Lateral Air transfer Devices&lt;br&gt;• Power Drive Stretchers&lt;br&gt;• Powered drive beds</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer&lt;br&gt;• Access to procedure</td>
<td>• Wider and longer stretchers</td>
</tr>
<tr>
<td>Security and Police Services</td>
<td>• Limb holding and restraining&lt;br&gt;• Vertical lifting&lt;br&gt;• Lateral transfers&lt;br&gt;• Aggressive behaviors&lt;br&gt;• Assaults&lt;br&gt;• Dealing with weapons and contrabands</td>
<td>• Powered air lift fall rescue devices.</td>
<td>• Falls reduction&lt;br&gt;• Skin shear reduction&lt;br&gt;• Comfortable transfer&lt;br&gt;• Access to procedure</td>
<td>• To be determined</td>
</tr>
</tbody>
</table>

*Items are preferred devices
I am very thankful for the following contributors who added their ideas to make this document convey the message intended.

Marie Martin. PhD.
SPHM Facility Coordinator
North Texas VA Health Care System

Susan Wyatt RN, BSN
SPHM Facility Coordinator
Phoenix VA Health Care System

Sandra Wettergreen KT
SPHM Facility Coordinator
Boston VAMC

Tosha Hammer DPT
SPHM Facility Coordinator
Central Iowa VA Health Care System

Megan Hernandez RN MSN
SPHM Facility Coordinator
Northeast Ohio VA Health Care System

Renee Neidhardt MSN, RN, CSPHP
SPHM Facility Coordinator
Charlie Norwood VA Medical Center

Connie Garrett MSN, RN
Perioperative Care Nurse Educator
Tampa VAMC

Jill Earwood, MSN-HCQ, CSPHP, RN
SPHM Facility Coordinator
Quality Manager
WNC VA Health Care System

Terrence Probst, Ed. D.
Business Manager, Ambulatory Care
San Francisco VA Health Care System
California Funeral Director/Embalmer

Kristi Houston
Visual Information Specialist
Phoenix VA Health Care System – Medical Media
Resources:

1. Injured Nurses by National Public Radio
   http://www.npr.org/series/385540559/injured-nurses

2. SPHM VHA APP
   https://staff-sqa.mobilehealth.va.gov/sph/#/cpaa/single-task

3. VHA SPHM Guidebook and Bariatric Guidebook
   http://www.tampavaref.org/safe-patient-handling/implementation-tools.htm

4. Safe Patient Handling & Mobility (SPHM) for Direct Patient Care Providers – TRAIN 1083299 - https://www.train.org/vha/course/1083299/
   Safe Patient Handling & Mobility (SPHM) for VA Employees - 1083300 - https://www.train.org/vha/course/1083300/

Research:


