

MEDICAL INNOVATION

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Innovation: FREEDOM RESTRAINT™

Synopsis:

Patients that are very young and very old, who are confused, or bear mental health complications can put themselves and others in dangerous and life-threatening situations. The FREEDOM RESTRAINT significantly inhibits the patient from pulling-out life saving devices; promoting patient safety, while providing therapeutic comfort. It is remarkably effective compared to other existing restraints.

References

Chemical restraints - unnecessary use on elderly. Chemical Restraints on Elderly Comments.

(n.d.). Retrieved March 29, 2022, from

<https://www.nursinghomeabuseguide.org/neglect/chemical-restraints>

Dugan, D. (2018). Ch. 7. In *Nursing assisting: A foundation in caregiving.* essay, Hartman.

Frakt, A. (2019, October 7). *The huge waste in the U.S. Health System.* The New York Times.

Retrieved March 30, 2022, from <https://www.nytimes.com/2019/10/07/upshot/health-care-waste-study.html>

Williams, L. S., & Hopper, P. D. (2017). Ch. 55. In *Understanding medical-surgical nursing.*

essay, F.A. Davis Company.

FREEDOM RESTRAINT

Current Restraint Options

Hospital Socks

That's right, hospital socks. This is commonly used in hospitals to an attempt to stop patients from removing life-saving devices.

- Patients can still bend fingers and remove life-saving devices and equipment.
- Socks are intended to hold in heat, making them hot and uncomfortable.
- Patients can easily remove them.

Limb Holder

- Associated with many complications.
- Difficult to use and often causes discomfort.
- Patients are unable to remove them without help.
- With some holders, the caregiver and patient's hands to pull and push at the device.

Immobilizer

- Patients are unable to remove them without help.
- With some holders, the caregiver and patient's hands to pull and push at the device.

Providing Safety Comfort and Peace of Mind



- Safe
- Easy access to finger assessment
- Quick-release buckle-strap closure
- Significantly restricts ability to pull on IV's, ports, drains tubes, NG tubes, wires, catheters, syringes, and other medical devices
- Promotes patient's freedom to move arms and torso
- Provider used caregiver peace of mind
- Easy to apply and remove
- Comfortable
- Therapeutic
- Lightweight
- Breathable
- Unobstructed palm resistance to the hand allowing fingers to rest easily and naturally (Browner)

Current Restraint Options

Finger Separator Mitt

- The normally blue Mitt with extended fingers opening and thumbhole.
- The new comfortable position is "flexion."
- Finger and thumb extend flexion leading to pain.
- Finger and thumb extending makes it difficult for providers to apply the mitt.
- Provides an enable to assess pulses, capillary refill, and skin temperature. Mitt has to be removed each time.

Diversionary Mitt

- Similar to hospital socks, patients are unable to bend fingers and remove life-saving devices.
- Providers are unable to assess pulses, capillary refill, and skin integrity. Mitt has to be removed each time.

Peek-A-Boo Mitt

- Similar to the Finger Separator Mitt, fingers extending pain.
- The new comfortable position is "flexion."
- Finger and thumb extending makes it difficult for providers to apply the mitt.
- Provides an enable to assess pulses, capillary refill, and skin temperature. Mitt has to be removed each time.









