

Patient and Physical Therapist Rating of Patient Mobility Using Two Heel Pressure Redistribution Boots in Acute Care

Conclusion:

- Physical therapists and patients in a community hospital rated patient mobility 21% higher using the fabric boot with a nylon shell compared to a vinyl static air boot.
- Scores were higher by 33% for the question "stays in place once applied" regarding the fabric boot with the nylon shell when rated by physical therapists.
- Physical therapist ratings for overall scores were 26% higher using the fabric boot with the nylon shell.

Purpose:

- Determine if physical therapists and patients rate patient mobility higher on the fabric boot with a nylon shell versus a static vinyl air boot.
- Assess the feasibility of including data about mobility in product evaluation by including physical therapists in the process.

Recommendations:

- We recommend more research to include a larger sample size, patients matched in comorbidities, and follow up to determine if increased functional mobility leads to faster wound healing times or decreased hospital acquired pressure ulcer rates.
- Consideration should be given to include physical therapists routinely in evaluating new pressure redistribution products for hospital use to provide functional mobility input.

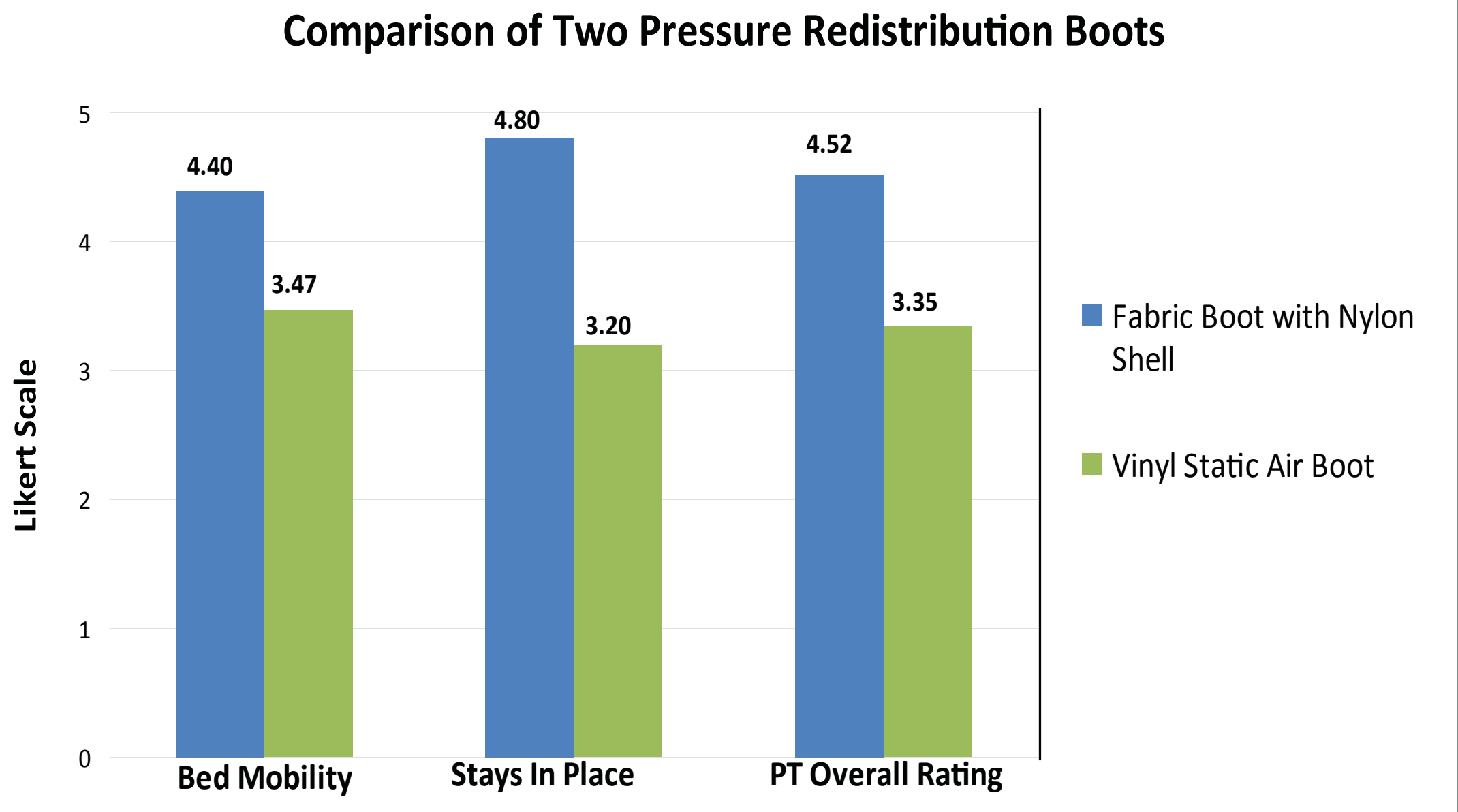
Problem

- Pressure data regarding the effectiveness of pressure redistribution surfaces is abundant but mobility data on these surfaces is scarce.
- Pressure redistribution surfaces are ordered by practitioners based on pressure ulcer risk assessment scores and are not routinely ordered in a process that accounts for patient functional mobility goals.

Method:

- A convenience sample of the first 10 patients using a fabric boot with a nylon shell and the first 10 patients with a vinyl static air boot.
- A 5 point Likert Scale with 5 mobility questions was answered by patients and physical therapists during routine physical therapy sessions.

Fabric Boot with Nylon Shell											
	Pt 1	Pt 2	Pt 3	Pt 4	Pt 5	Pt 6	Pt7	Pt 8	Pt 9	Pt 10	MEAN of All Data
Q 1	5.00	5.00	5.00	5.00	5.00	3.00	4.00	5.00	5.00	4.00	
Q 2	5.00	4.00	5.00	5.00	5.00	3.00	4.00	5.00	4.00	4.00	
Q 3	5.00	4.00	5.00	5.00	5.00	3.00	4.00	5.00	4.00	4.00	
Q 4	5.00	4.00	5.00	5.00	5.00	3.00	4.00	5.00	4.00	4.00	
Q 5	5.00	5.00	5.00	5.00	4.00	5.00	5.00	5.00	4.00	5.00	
Q 6	4.00	5.00	N/A	N/A	5.00	1.00	3.00	5.00	N/A	4.00	
Q 7	5.00	3.00	N/A	N/A	5.00	3.00	5.00	5.00	N/A	4.00	
Q 8	4.00	3.00	N/A	N/A	5.00	4.00	5.00	5.00	N/A	4.00	
Q 9	4.00	3.00	N/A	N/A	5.00	2.00	5.00	5.00	N/A	4.00	
Q 10	5.00	4.00	N/A	N/A	4.00	5.00	5.00	5.00	N/A	5.00	
MEAN	4.70	4.00	5.00	5.00	4.80	3.20	4.40	5.00	4.20	4.20	4.40
Vinyl Static Air Boot											
	Pt 1	Pt 2	Pt 3	Pt 4	Pt 5	Pt 6	Pt7	Pt 8	Pt 9	Pt 10	MEAN of All Data
Q 1	4.00	4.00	3.00	5.00	4.00	3.00	4.00	4.00	1.00	4.00	
Q 2	3.00	4.00	3.00	5.00	4.00	3.00	4.00	3.00	2.00	2.00	
Q 3	3.00	4.00	3.00	5.00	4.00	2.00	4.00	3.00	2.00	3.00	
Q 4	3.00	4.00	4.00	5.00	4.00	3.00	N/A	3.00	2.00	2.00	
Q 5	3.00	4.00	3.00	4.00	4.00	3.00	4.00	3.00	2.00	2.00	
Q 6	N/A	5.00	3.00	5.00	5.00	4.00	4.00	N/A	1.00	3.00	
Q 7	N/A	3.00	3.00	5.00	5.00	3.00	5.00	N/A	2.00	3.00	
Q 8	N/A	3.00	3.00	5.00	5.00	4.00	4.00	N/A	2.00	3.00	
Q 9	N/A	N/A	2.00	5.00	5.00	3.00	N/A	N/A	3.00	3.00	
Q 10	N/A	3.00	4.00	5.00	5.00	5.00	2.00	N/A	2.00	3.00	
MEAN	3.20	3.78	3.10	4.90	4.50	3.30	3.88	3.20	1.90	2.80	3.47



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