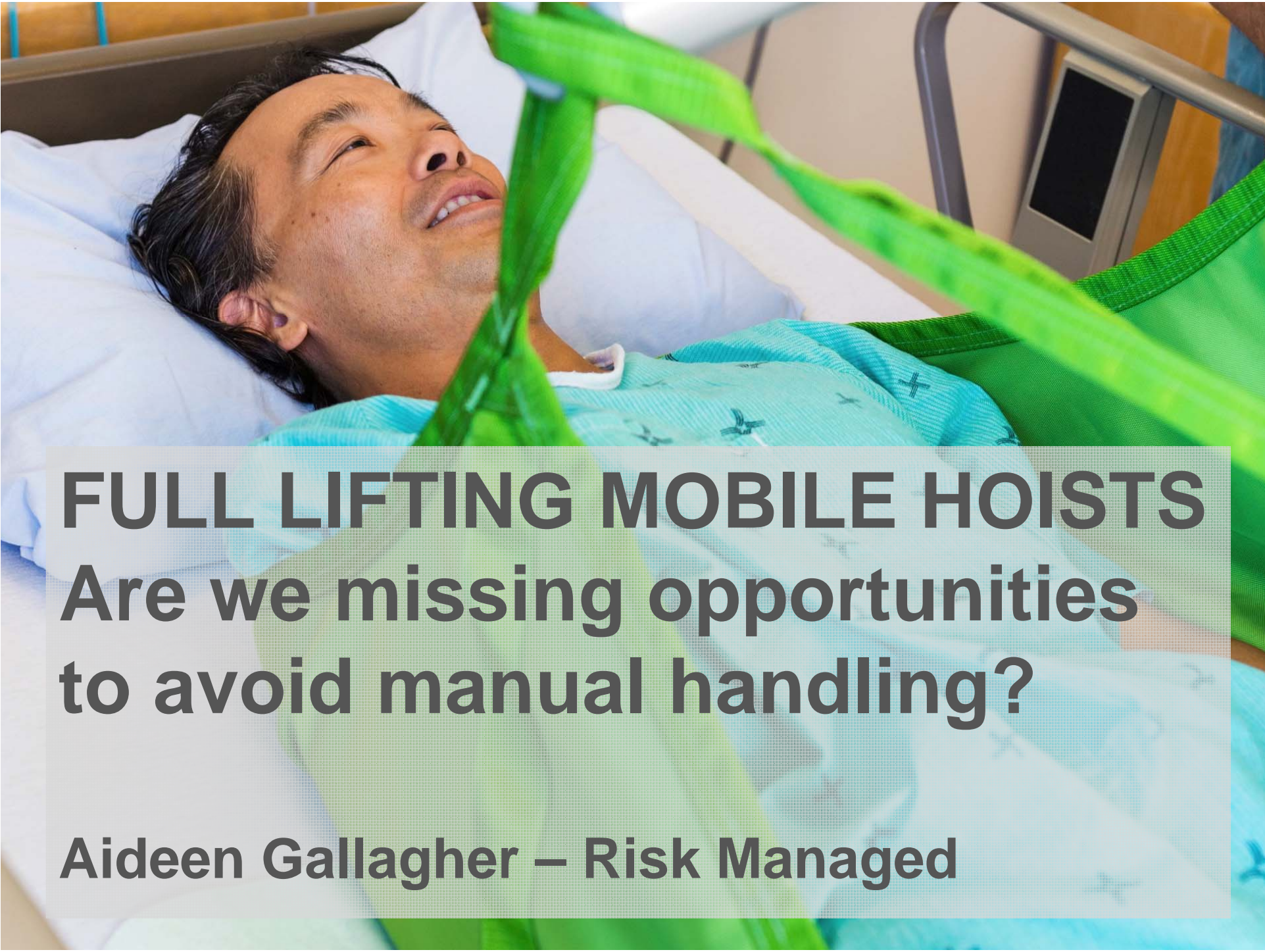




Beyond Safety

HOISTED

A photograph of a middle-aged man with dark hair lying in a hospital bed. He is wearing a light blue hospital gown. A bright green lifting strap is draped over his chest. The background shows the metal frame of the hospital bed and a white pillow. The text is overlaid on a semi-transparent grey box in the lower half of the image.

FULL LIFTING MOBILE HOISTS

Are we missing opportunities to avoid manual handling?

Aideen Gallagher – Risk Managed

HoistED programme

1

**If and when to prescribe
a full lifting hoist**

2

Using and choosing full lifting hoists

3

Using and choosing ceiling track hoists

HoistED programme



Using and choosing full lifting hoists

PRESENTATION OUTLINE



Background

Theory

Practice

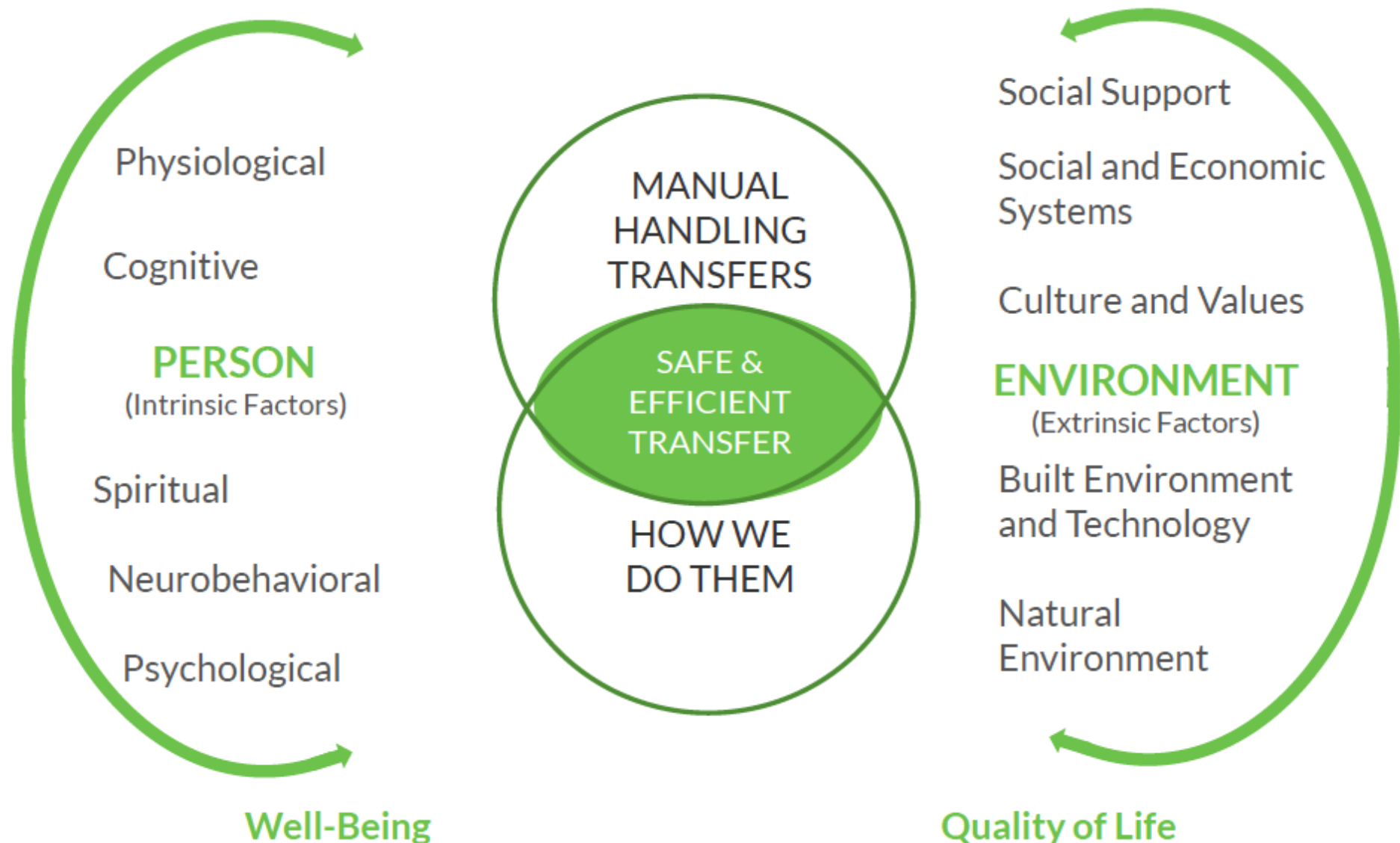
BEYOND SAFETY


HOISTED

Person Environment Occupation (PEO) Model (Law et al, 1996)



Person Environment Occupation (PEO) Model (Law et al, 1996)





Nurses 21.9/100FTE
Care aids 37/100FTE

(Alamgir et al, 2007)

BEYOND SAFETY

HOIST ED





AIM OF A HOIST

SAFE TRANSFER

EFFICIENT TRANSFER

BEYOND SAFETY

HOISTED



HOIST PRESCRIPTION STAGES

BEYOND SAFETY

HOIST ED



THE HOIST

BEYOND SAFETY

HOIST 

HOIST PRESCRIPTION PROCESS

- 1 ACTIVITY ANALYSIS**
- 2 IDENTIFY DROP DOWN AND PICK UP POINTS**
- 3 TEST IF THE HOIST MEETS DROP DOWN AND PICK UP POINTS**

Origin of a transfer



BEYOND SAFETY

HOIST 

Destination of a transfer



BEYOND SAFETY

HOISTED



SAFE WORKING LOAD



BEYOND SAFETY

HOIST **ED**



BEYOND SAFETY

HOIST **ED**



EQUIPMENT FOOTPRINTS

BEYOND SAFETY

HOIST **ED**

1

ACTIVITY ANALYSIS

ORIGIN	DESTINATION
Bed	Shower commode chair
Shower commode chair	Bed
Bed	Wheelchair



POSITIONING INTO THE WHEELCHAIR
Where should the drop down point be?

BEYOND SAFETY

HOISTED

2

IDENTIFY DROP DOWN AND PICK UP POINTS

Origin	Pick up point	Destination	Drop down point
Bed	900mm from top of bed 450mm in	Shower commode chair	Client back touching backrest when 5cm from seat of chair
Shower commode chair	Yoke at sternum of client	Bed	900mm from top of bed 450mm in
Bed	900mm from top of bed 450mm in	Wheelchair	Client back touching backrest when 5cm from seat of chair



Testing a hoist meets pick up and drop down points

When the care receiver is moved to 5cm over the seat of the chair, do they reach the drop down point with their back touching the backrest of the chair?

	Station 1	Station 2	Station 3	Station 4
Hoist	Small Hoist	Small Hoist	Large Hoist	Large Hoist
Chair	Small chair	Large chair	Small chair	Large chair
Positive Observations				
Negative Observations				

REFERENCES

Alamgir, H., Civtkovich, Y., Yu, S., Yassi, A. (2007). Work-related injury among Direct Care occupations in British Columbia, Canada. *Occupational Environmental Medicine*, published online May 23, 2007

Campo, M., Weiser, S, Koenig, K. L., & Nordin, M. (2008). Work-related musculoskeletal disorders in physical therapists: A prospective cohort study with 1-year follow-up. *Physical Therapy*, 88, 608–619.

Health Service Executive (2014). Musculoskeletal Disorders in Great Britain 2014. www.hse.gov.uk/statistics/

Kay, K., Glass, N. & Evans, A. (2014). It's not about the hoist: A narrative literature review of manual handling in healthcare. *Journal of Research in Nursing*, 19(3), 226-245.

Martin PJ, Harvey JT, Culvenor JF, Payne WR. Effect of a nurse back injury prevention intervention on the rate of injury compensation claims. *J Safety Res.* 2009;40(1):13–9. <http://dx.doi.org/10.1016/j.jsr.2008.10.013>.

Marras, W.S., Knapik, G. G., Ferguson, S. (2009). Lumber spine forces during manoeuvring of ceiling-based and floor-based patient transfer devices. *Ergonomics*, 52 (3), 384-397.

REFERENCES

Retsas, A., & Pinikahana, J. (2000). Manual handling activities and injuries among nurses: an Australian hospital study. *Journal of Advanced Nursing*, 31(4), 875-883.

Schoenfisch AL, Lipscomb HJ, Pompeii LA, Myers DJ, Dement JM. Musculoskeletal injuries among hospital patient care staff before and after implementation of patient lift and transfer equipment. *Scand J Work Environ Health*. 2013 Jan;39 (1):27–36.
<http://dx.doi.org/10.5271/sjweh.3288>.

Occupational Safety and Health Regulation (1996) Part 3, Division 1, s3.4

Prism Medical UK, (2015). <http://prismmedical.co.uk/about/enabling-single-handed-care/>

Rush A.(2004). Assessing clients for correct hoist or sling: a practical guide. *International Journal of Therapy and Rehabilitation*. 11 (4), 179- 182.

Bakewell, J. (2007). Which hoist and why? A product guide. *International Journal of Therapy and Rehabilitation*. 14(9): 424-429.

CONTACT

r!skmanaged

People Handling Solutions

E: aideengallagher@riskmanaged.com.au

W: www.riskmanaged.com.au

HOIST 



Beyond Safety

HOISTED