



Understanding Obesity

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Sensitivity



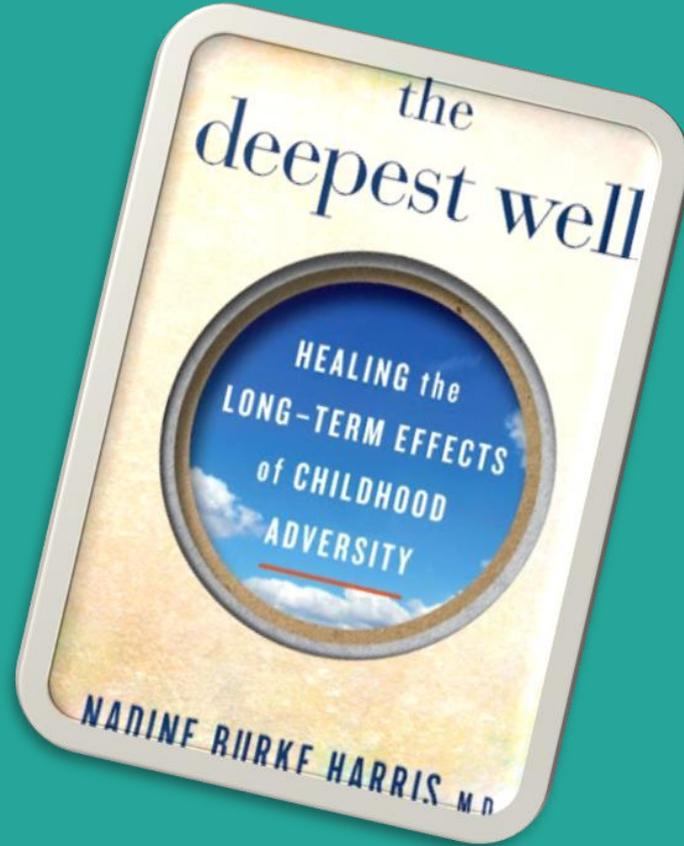
Sensitivity

Dr Harris
Cornell report
Wm Glasser
Rebeca Puhl



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Cornell report
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Rebeca Puhl



Sensitivity

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Cornell report
Wm Glasser
Rebeca Puhl



Chronic toxic stressors

Food

Sleep

Activity

Meditation

Better understanding



Goal



Understand what issues of body size have on the individual who is obese and those who care for the individual



Objectives

- Describe the cellular impact of adiposity
- Identify the hazards of immobility
- Explore common, predictable and preventable consequences of care



Clinical issues

- Inflammatory Markers
- Hazards of Immobility

Rodríguez-Hernández H, Simental-Mendía LE, Rodríguez-Ramírez G, Reyes-Romero MA. Obesity and Inflammation: epidemiology, risk factors, and markers of inflammation. *Int J Endocrinol.* 2013; 2013: 678159i.

Gallagher SM. *A Practical Guide to Bariatric Safe Patient Handling and Mobility: Improving Safety and Quality for the Patient of Size.* Visioning Publishers: Sarasota, FL. 2015.



Adiposity - cellular and molecular impact

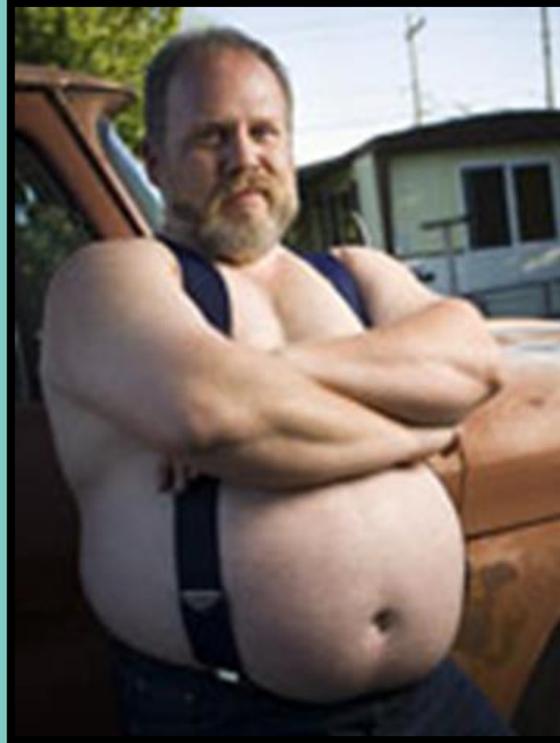
- Meta-inflammation
- Gene expression networks lead to metabolic dysfunction
- Reframe obesity as an inflammatory —disease

Lumeng CN, Saltiel AR. Between obesity and metabolic disease. J Clin Investigation. 2011;121(6):2111-2117.



Hazards of Immobility

- Endocrine
 - Cardiac
 - Vascular
 - Respiratory
-



Gallagher SM. Practical Guide to Bariatric Safe Patient Handling and Mobility: Improving safety and Quality for the Patient of Size. Visioning Publishers: Sarasota FL. 2015.

Hazards of Immobility

- Musculoskeletal
 - Gastrointestinal
 - Integumentary
 - Emotional
-



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Critical care

- Intensive Care
- Holsworth & Gallagher study
- Deconditioning

Holsworth C & Gallagher SM. Managing care of critically ill bariatric patients. AACN Adv Crit Care. 2017;28(3):275-283.



Early, Progressive Mobility

- Integrate size into mobility protocol
- Technology/equipment
- Occupational Injury

Association of Safe Patient Handling Professionals and American Nurses Association (2013) Advancing the Science and Technology of Progressive Mobility. Retrieved from http://www.asphp.org/wp-content/uploads/2011/05/1400387-ASPHP_ANA_Whitepaper-HR.pdf

Hashem M, Nelliott A, Needham DM. Early mobilization and rehabilitation in the ICU: moving back to the future. *Respir Care*. 2016 Jul;61(7):971-9.



The Lungs

- Obesity
Hypoventilation
Syndrome
 - Positioning
-



The Panniculus



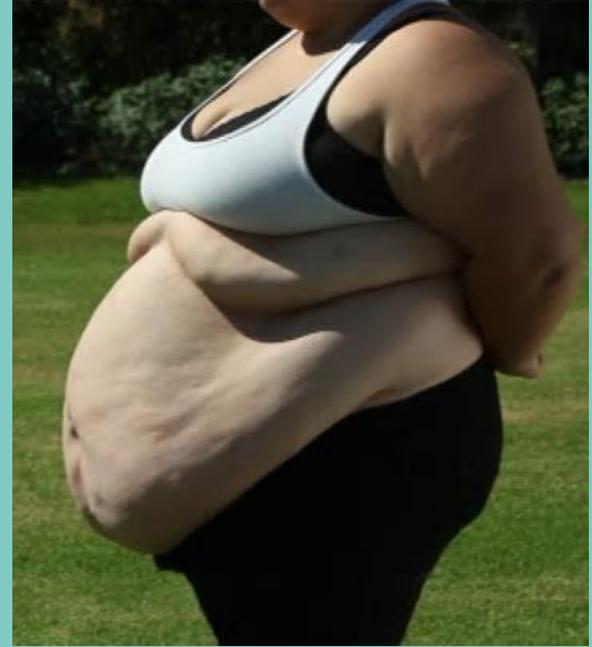


Obesity raises
fall risk 31%



Fall Prevention

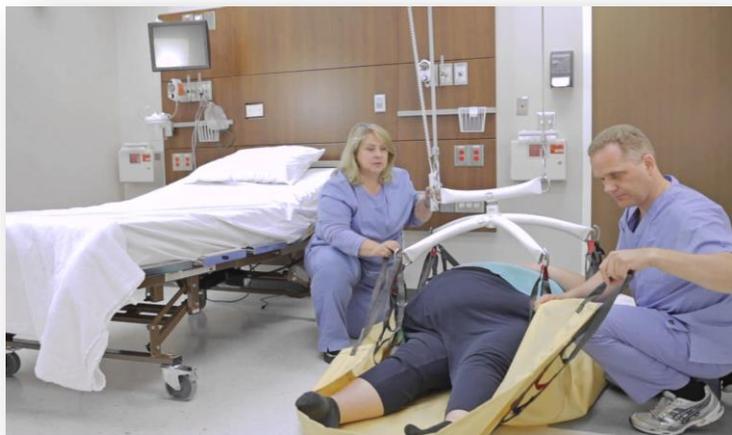
- Maldistribution of weight
- Visual impairment due to excess tissue
- Worker and patient weight on fall-related injury
- Occupational injury



Mitchell RJ, Lord SR, Harvey LA, Close JC. Associations between obesity and overweight and fall risk, health status and quality of life in older people. Aust N Z J Public Health. 2014;38(1):13-8.



Fall Recovery



Pressure injury prevention



Skin injury prevention

- Risks of occupational injury associated with skin injury prevention and treatment
 - Repositioning
 - Turning
 - Static limb holding
 - Dressing changes
-



Pressure injury prevention

- Greater pressure
- Less vascularity
- Friction and shear
- Skin to weight ratio
- Dermatitis
- Incontinence

Skin injury assessment

- Atypical pressure injury:
 - Skin folds
 - Tube/catheters
 - Hip ulcers
 - Buttocks ulcers

Gallagher SM. Skin and wound care among obese patients. In Bryant A. & Nix D *Acute and Chronic Wounds*. Mosby: 2016.

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CASE STUDY:

29-year-old, 630 pound male admitted for open Roux-en-Y Gastric Bypass. Extended surgical time, extended critical care. Pressure ulcer discovered on day 33, treatment begun on day 35.

Knudsen AM & Gallagher SM. Care of the obese patient with a pressure ulcers. Journal of Wound, Ostomy and Continence Nursing 2003;30(2):41-50.



CASE STUDY:

What are the ethical considerations

What are the legal consequences

What are the cost outcomes

How could Bariatric readiness prevent this

Thoughts???



Clinical Challenges

- Venous access placement
- DVT prophylaxis
- Toileting
- Hygiene
- Skin fold management

Clinical Challenges

- Pain management
- Intramuscular injection
- Surgical prep
- Dressing changes

Clinical Challenges

- Staffing requirements
- Space/room design
- Diagnostic and interventional
- Availability, placement of technology

Clinical Challenges

- Patient safety issues
- Threat to caregiver safety
- Hazards of immobility

Thank you!

