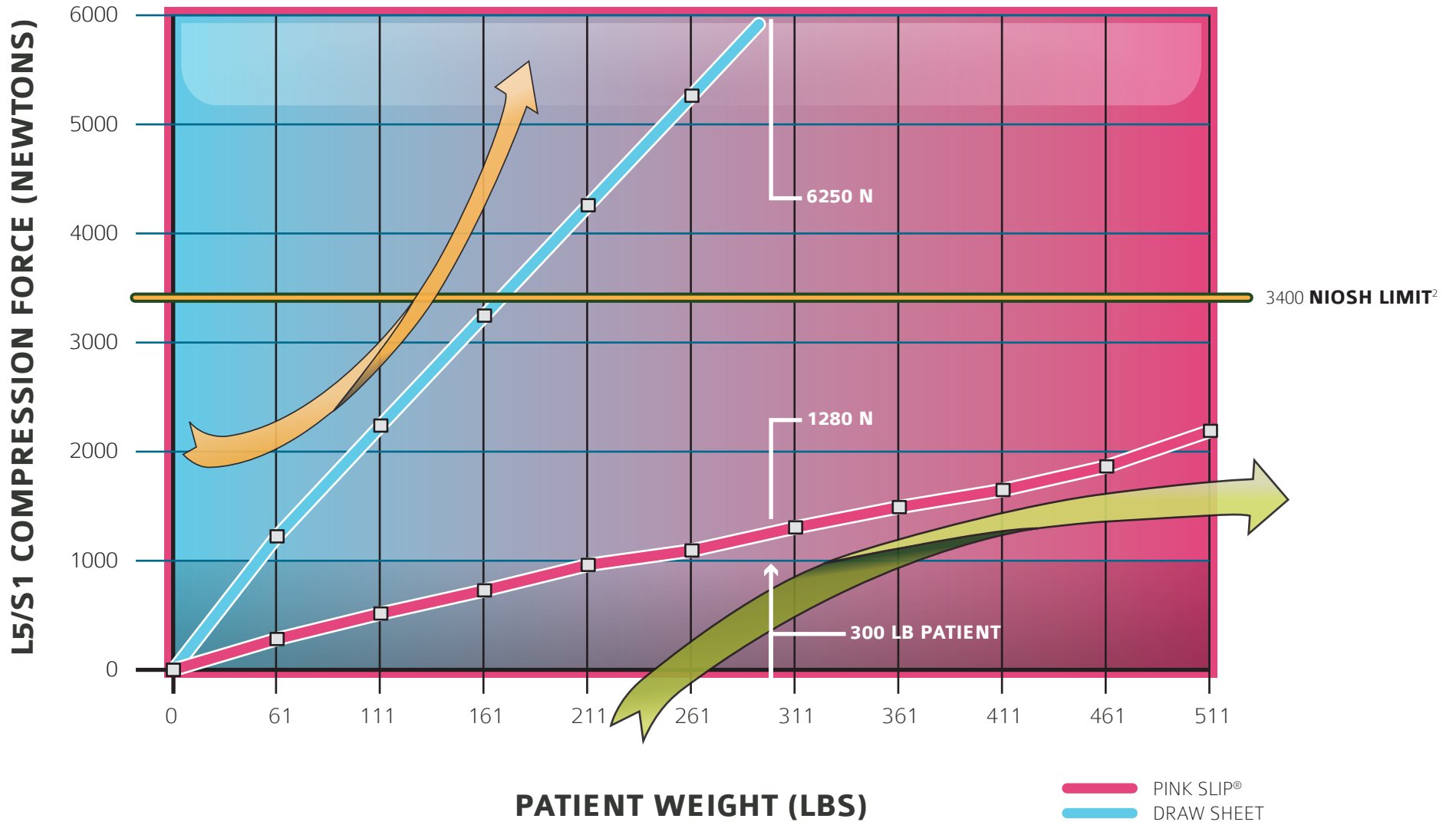


# CAREGIVER L5/S1 COMPRESSION FORCE

LATERAL TRANSFER (PULLING)<sup>1</sup>

HIGH DENSITY PINK SLIP<sup>®</sup> VS. DRAW SHEET



## **FINDINGS:**

THE PINK SLIP® REDUCED THE COMPRESSION FORCE AT THE L5/S1 BY 340% OR 960 NEWTONS WHEN MOVING A PATIENT WEIGHING 60 LBS. VS DRAW SHEET.

THE PINK SLIP REDUCED THE COMPRESSION FORCE AT THE L5/S1 BY 348% OR 2538 NEWTONS WHEN MOVING A PATIENT WEIGHING 160 LBS. VS DRAW SHEET.

THE PINK SLIP REDUCED THE COMPRESSION FORCE AT THE L5/S1 BY 383% OR 4,997 NEWTONS WHEN MOVING A PATIENT WEIGHING 300 LBS. VS DRAW SHEET.

## **CONCLUSIONS:**

THE L5/S1 COMPRESSION FORCE INCREASES PROGRESSIVELY FOR THE DRAW SHEET AS THE PATIENT WEIGHT INCREASES. USING THE DRAW SHEET FOR PATIENTS ABOVE 170 POUNDS THE L5/S1 COMPRESSION FORCE EXCEEDS THE 3400 NEWTON LIMIT ESTABLISHED BY NIOSH<sup>1</sup>.

<sup>1</sup>Patient lateral transfer data was calculated using the 50th percentile male caregiver

<sup>2</sup>Revised NIOSH lifting equation. 1994, U.S. Department of Health and Human Services