

Does Safety Make a Difference? The Impact of Safety Observations on Injury Likelihoods

By: Rylie Sant, Tanner Landolt, Sunny Barboj, Jacob Leslie, Nick Granowsky, Yalçın Açıköz, Timothy Ludwig, Shawn Bergman



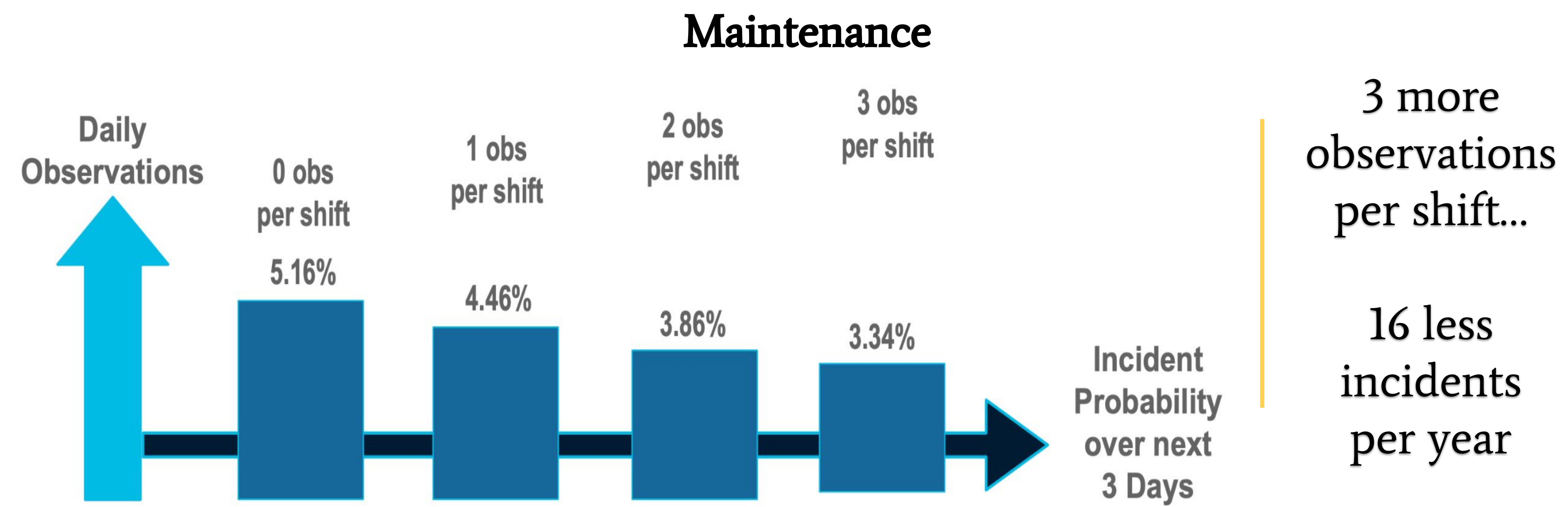
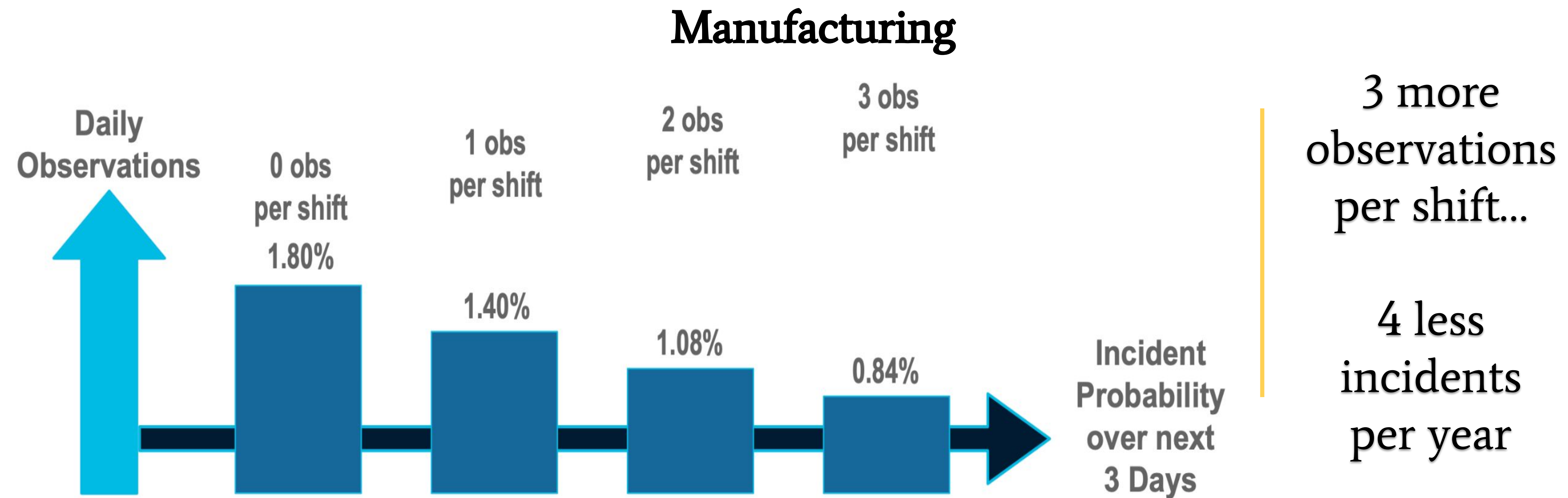
Aim & Background

Aim of this study was to examine whether performing safety observations reduced the likelihood of safety incidents

- Safety observations
- Checklist of behaviors deemed “safe” – conducted to decrease or eliminate a safety incident.
- Safety incidents
- An event that causes injury to an employee

Results

Observations reported today (day 0) reduce the probability of an incident occurring over the next 3 days.



Discussion

- Safety observations to mitigate incident risk are possible and highly advantageous
- Performing safety observations reduce the number of incidents, saves time, energy, effort, money & lives

Methodology

- 3 years of safety data collected & analyzed
- Normalized by work hours to reflect observations per 8-hour shift
- Did accident occur? Yes or No
- Rolling sum time-series logistic regression analysis
 - Did observations over the previous seven days decrease the odds of an incident occurring over the next seven days?

