



FALL PREVENTION:

MINIMIZING ALARM RESPONSE TIME

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JOINT COMMISSION GOALS RELATED TO FALL PREVENTION

USE ALARMS SAFELY

**- MAKE IMPROVEMENTS TO ENSURE THAT
ALARMS ON MEDICAL EQUIPMENT ARE HEARD
AND RESPONDED TO ON TIME.**

NPSG.06.01.01



Lewin's Model for Change

Step 1: Unfreeze the status quo.



Step 2: Change.



Step 3: Refreeze.



THE COST OF FALLS...

The annual medical costs associated with slips and falls amount to approximately **\$50 billion.**

– CDC, 2024





OUR OBJECTIVE:

- Alarm Response Time ↓
- Alarm Audibility ↑
- Falls ↓

DOOR STOPS TO PREVENT FALLS?



WHEN IT COMES TO
FALL PREVENTION, ALL
OPTIONS SHOULD BE
EXHAUSTED.

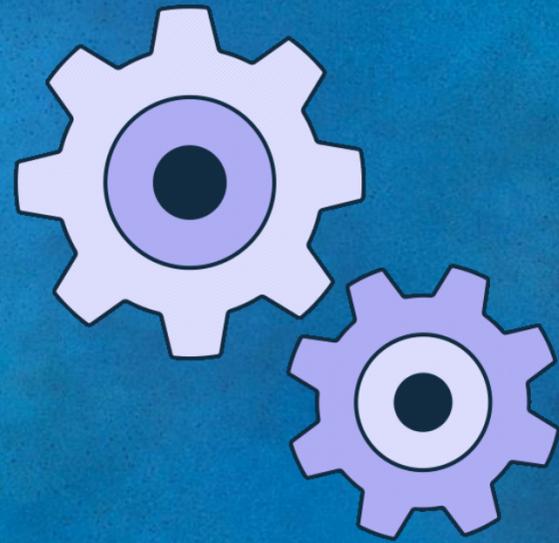




ALARM FATIGUE

- Alarm fatigue, a common issue among nurses, occurs due to frequent exposure to a high volume of alarms, leading to desensitization and delayed response to critical alerts.
- This phenomenon poses a significant threat to patient safety as crucial alarms may be missed, or overlooked, increasing the risk of adverse events or patient harm.





The Setup



- Distance?
- Frequency/Variety of Alarms?
- How do we measure Audibility?



DETERMINING DISTANCE FOR STUDY

AVERAGE DISTANCE BETWEEN CENTER OF
NURSE'S STATION AND PATIENT ROOM
DOORS AT MOUNT SAN RAFAEL IS 33
FEET.



DISTANCES OF PATIENT ROOMS FROM NURSE'S STATION

21 FT
25 FT
29 FT
33 FT
37 FT
41 FT
45 FT

With Prop Avg: **12.47** seconds

W/O Prop Avg: **14.11** seconds

CHAIR ALARM

11.74s	14.33s
13.42s	15.1s
13.78s	13.32s
13.2s	13.9s
12.7s	13.91s

With Prop Avg: **9.46** seconds

W/O Prop Avg: **11.54** seconds

BED ALARM

8.34s	10.2s
10.46s	11.7s
9.86s	12.5s
9.72s	11.47s
11.42s	11.85s

What about Audibility?



CHAIR ALARM DECIBEL LEVEL WITH DOOR PROP - 95

CHAIR ALARM DECIBEL LEVEL W/O DOOR PROP - 90

BED ALARM DECIBEL LEVEL WITH DOOR PROP - 87

BED ALARM DECIBEL LEVEL W/O DOOR PROP - 78



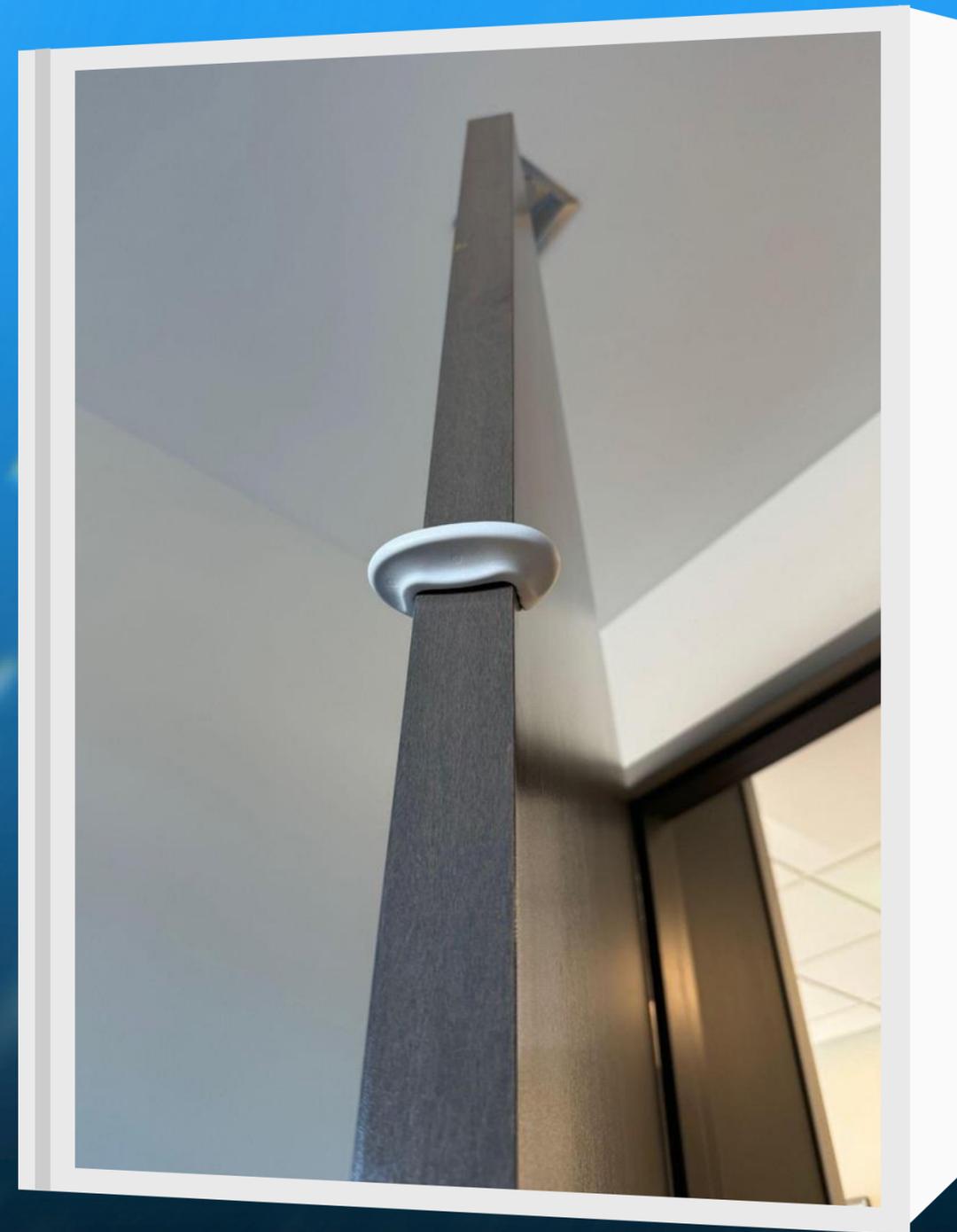
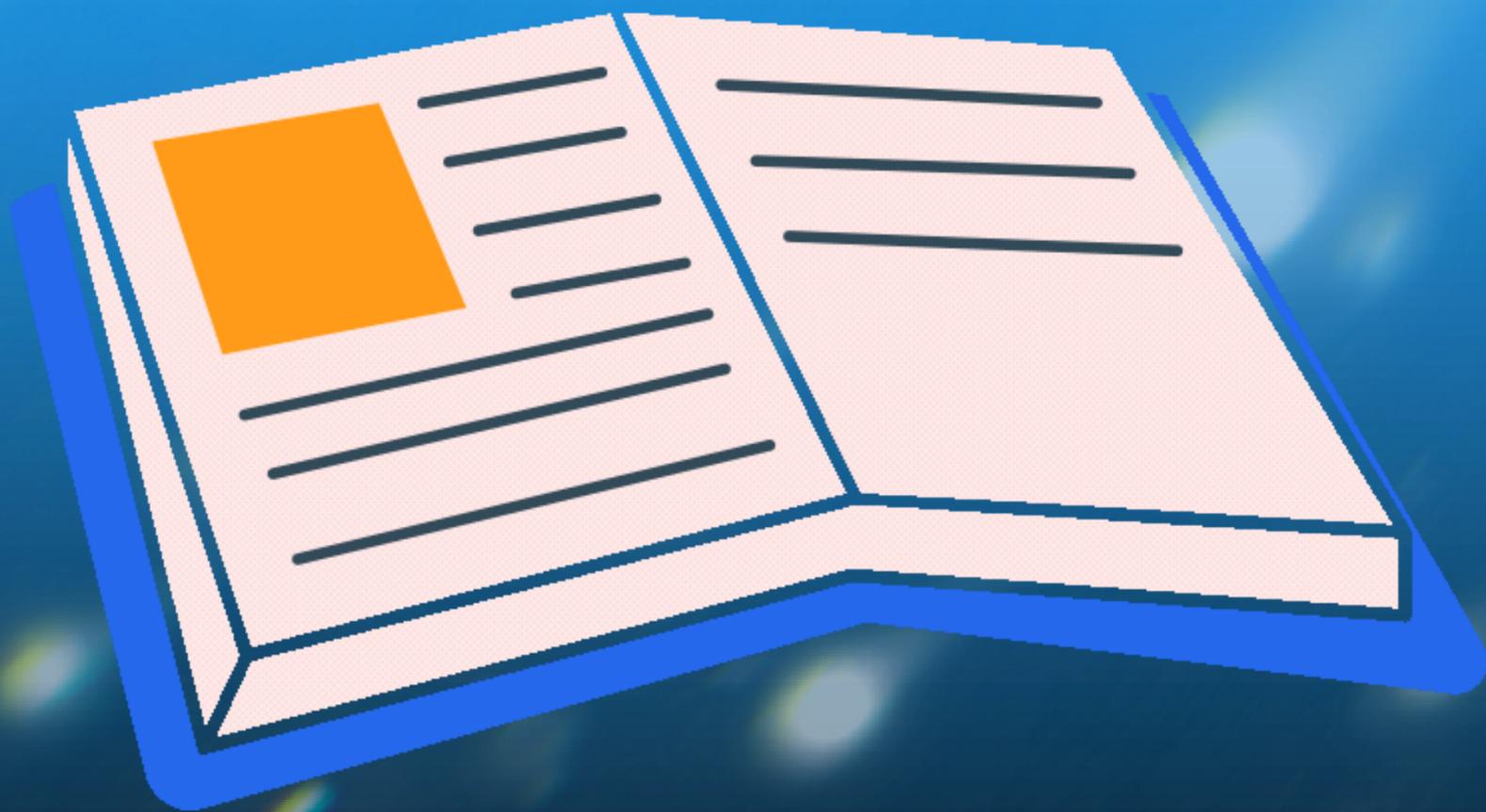
WHAT DOES LEWIN'S MODEL OF CHANGE LOOK LIKE FOR US?



RECOMMENDATIONS FOR IMPLEMENTATION



EDUCATING STAFF ON DOOR STOP USAGE





THE FUTURE OF FALL PREVENTION

FUTURE THE

CONTINUOUS QUALITY IMPROVEMENT



EFFECTIVENESS OF DOOR STOPS



**POSITIVE
IMPLICATIONS FOR
NURSING PRACTICE**

**IMPROVEMENTS
GOING
FORWARD...**



ACKNOWLEDGEMENTS



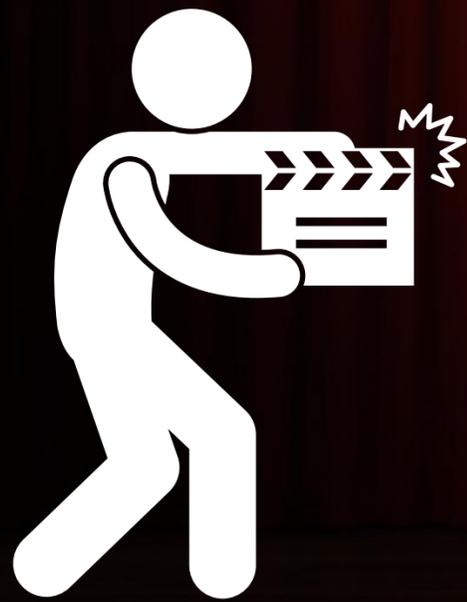


CONCLUSION

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QUESTIONS?

The End!



THANK YOU!