

Understanding fall risks through analysis of reporting data

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INTRODUCTION

Falls are most common patient safety problem in hospital. Almost 47% of patient safety incidents were falls reported in the Korea patient safety reporting & learning system(KOPS) in 2021.

When falls occur, patients experience various physical and psychological damages.

To properly prevent falls, it is important to understand risk of falls and implement appropriate intervention accordingly.

There are patients with diverse characteristics and disease in this hospital and the external environment changes rapidly, so there is a need to diversify fall prevention activities.

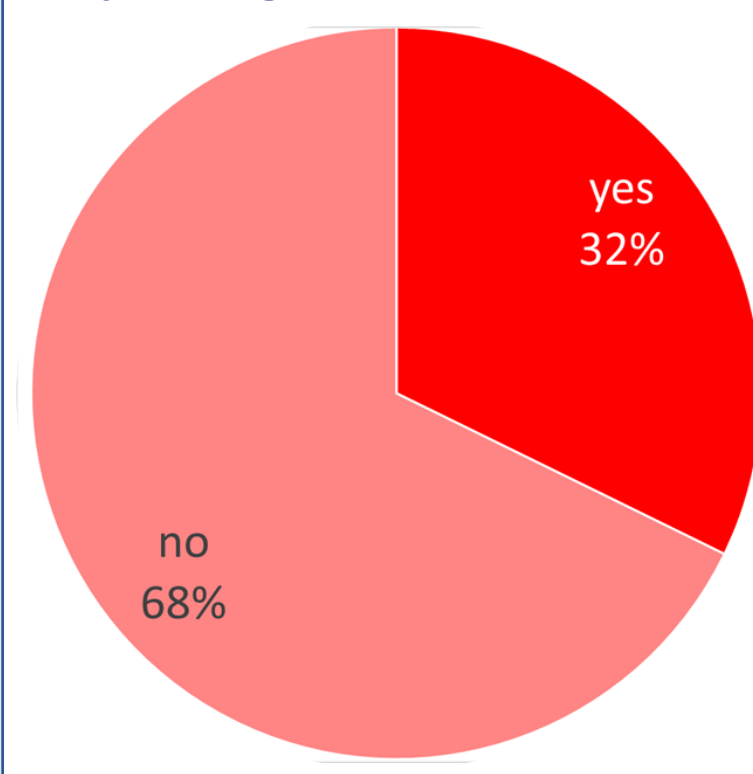
AIM

- Identifying the characteristics of fall that occurred in the hospital
 - Risk of falls according to Morse fall scale
 - Types of falls
 - Place of fall occasion
 - Medical department
 - Age
 - Presence of caregiver
- Using data as basis for implementing appropriate fall-prevent intervention

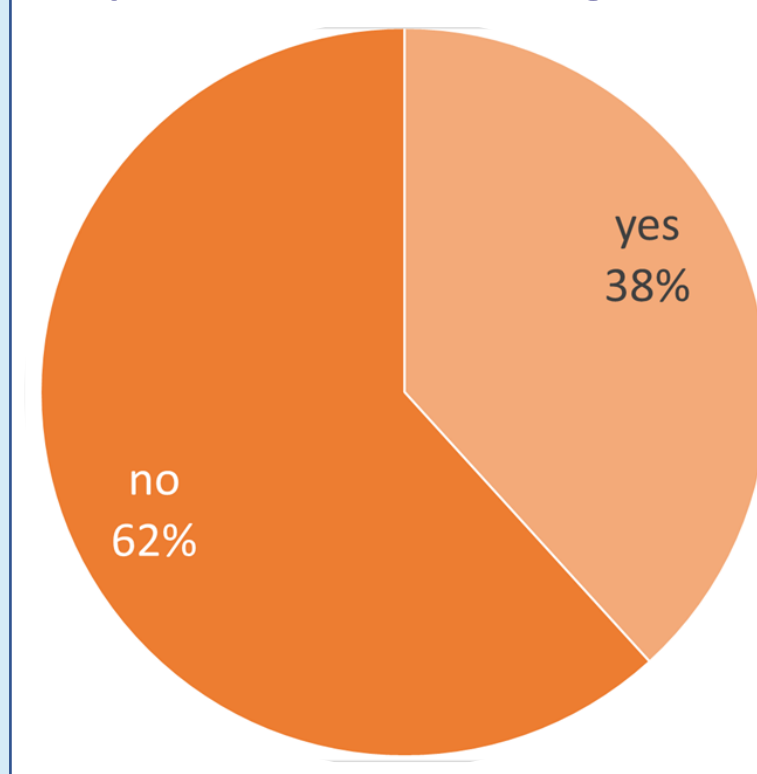
RESULTS

Data analysis

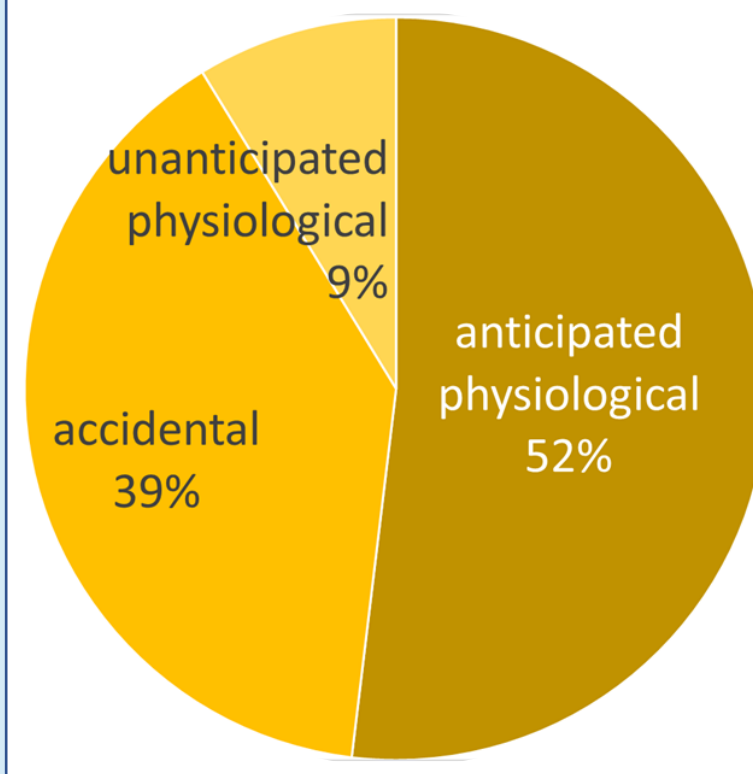
Graph1. High risk of fall



Graph2. Presence of caregiver



Graph3. Types of fall



Graph 4. Places of fall

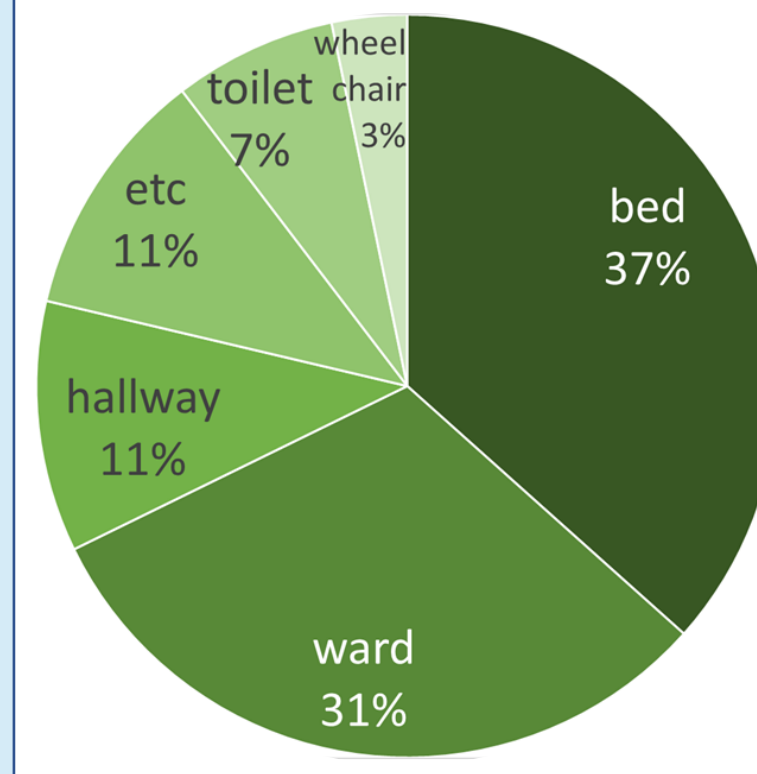


Table 1. Falls by age

Age	%
0~9 years	2
20~29 years	1
30~39 years	5
40~49 years	6
50~59 years	7
60~69 years	22
70~79 years	27
Over 80 years	30

Table 2. Falls by department

Department	%
Orthopaedic surgery	15
Urology	8
Hematology and oncology	8
Neurosurgery	8
Pulmonology	7
Psychiatry	7
Nephrology	7
Etc.	40

Photo. Sharing patients' fall risk via EMR



Photo. "Fall caution" sticker to the ID band



Photo. Improving the fall risk environment



Photo. Fall-prevention device



Photo. Multidisciplinary discussion



- Fall prevention program
 - Fall risk assessment via Morse fall scale(over 15 years), Humpty dumpty scale(under 15years)
 - Share fall risk information through EMR, and apply "Fall caution" sticker to ID band
 - Observation patients every 30minutes ~ 1hour through the nurse rounds, meet patients' care needs and ensure patient safety.
 - Educate and give information patients to prevent fall
 - Check any fall-hazardous environment and remove it
 - Apply fall prevention devices
 - Hold committee of fall prevention and management, share the current situation and discuss all about falls

METHOD

- Retrospective descriptive study
- Data were collected through the Ewha womans university mokdong hospital's electronic medical record patient safety report program from January to December, 2022
- After the verification process, all information that can identify an individual was deleted and converted into unidentifiable data
- Fall reporting system
 - Fall occurs, related staff reports the fall incident to the QPS(Quality improvement and patient safety) team.
 - Analyzing the data quarterly and share the result to the all staffs(from the directors to the sharp end)
 - Using the result to improvement fall prevention activities and check the result

CONCLUSIONS

- As the age increased, the number of falls also increased. Some disease make patients' fall rate high because of the decrease physical mobility or making patients rapidly exhausted. Absence of caregiver affects fall rate because it makes difficult to physically prevention fall risk behavior.
- To increase the chance of cope with the situation in which the patient is about to fall, we were newly introduced fall-prevention devices.
- To discuss multidisciplinary, we held committee of fall prevention and management. In there, we share the current situation and discuss all about falls

ACKNOWLEDGEMENT

Specially thanks to the staffs who did not hide the fall incident and report it. Their honesty and courage laid the groundwork for more effective improvement activities.

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