

Effects of Eliminating Distractions during Medication Administration

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Background

Ranking 8th in the leading cause of death in the United States is medication errors with over 250,000 mediation errors resulting in the cause of death.¹

Literature Review

Databases

- CINAHL
- EBSCO
- Google Scholar

Article Selection Criteria:

- Peer Reviewed Article Journal
- Years: 2013-2018

Key Words

- Nursing
- Distractions
- MedicationErrors
- Cause
- Interventions
- Vests
- Quiet Room

PICOT Question

During medication administration, how does having a "no distraction" protocol compare with the standard protocol and what is the influence on medication errors?



Synthesis of Findings

Distractions

- F2F conversation, phone calls, call lights, bed alarms, missing supplies, malfunctioning equipment, & emergency situations²
- Interruption from other staff/ talking about other things³
- † interruptions † error %. Procedural errors 100% when there are 2-3 interruptions⁴

Interventions

- "Do Not Disturb" Signs
 - Door signs useful for nurses, patients, & relatives; nurses "showed signs on door when patients interrupted"; ↓ in patient interruptions; corresponding ↑ in time efficiency⁵
 - Signs \(\) interruptions in general, but had little effect on physicians, who ignored them \(\)

Wearing a Vest

- Staff interruptions (32.7%), phone calls (13%), and gathering of supplies (8.2%), all \ \ with wearing a vest⁶
- Interruption rates \(\) from 36.8 pre to 28.3 post⁷

Separate Medication Room/Quiet Zone

- Mean interruption rate ↓ from 51.8 to 30 interruptions/hour; interruption free time ↑ from 1.4 to 2.5 minutes.
 Mean med error rate/day↓ after implementation from 1.3 to 0.9 errors/day⁸.
- \$\psi\$ interruptions during med admin by 40.9% in 3-week period & nurses reported that zones \$\gamma\$ awareness of med safety \$\gamma\$

Education

- Medication administration by pharmacist or APNs is a simple way to ↓ med admin error rates⁹.
- \downarrow in rates of med admin errors and related adverse drug events reported with nurse educational training 10

Patient Safety

• Leadership is critical as medication safety will not evolve without a strong nursing administration emphasis on patient safety, focusing on the quality of the medication administration process¹¹

Decision to Change

Decrease medication errors by:

- Implementation of Quiet zones
- Implementation of vests during medication administration
- Protected time for passing medications w/out interruptions
- Education seminar for implementation regarding new protocols
- Nursing Administration support



SAFE ZONE

Please do not Interrupt

Evaluation

- \prim in Interruption Rate
- ↓ in Medication Error
- Increase in nurses focus during medication preparation and administration
- † Knowledge of Medication Error Causes
- In practice vests are unpopular with nurses; they doubt their effectiveness & don't feel comfortable wearing them.

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