

A Quality Improvement Project to Enhance Emergency Nurse Workplace Violence Reporting

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Background/ Significance

- **Workplace violence (WPV)** is defined as any act or threat of physical violence, harassment, intimidation, or other threatening disruptive behavior, occurring in workplace; ranging from verbal threats to physical assaults and even homicide involving employees, clients, customers, and visitors (OSHA, 2016)
- WPV generally falls into four categories:
 - Type I: “Criminal Intent”
 - **Type II: “Customer/ Client”**
 - Type III: “Worker-on-Worker”
 - Type IV: “Personal Relationship”

Background/Significance

- Healthcare WPV is a pervasive, perpetual, and underreported problem
- Approximately, 2 nurses assaulted/ hour in U.S., mostly in emergency departments (EDs) or psychiatric units (Press Ganey, 2022)
- Roughly 70% emergency nurses and 47% emergency physicians assaulted on the job (ACEP/ ENA, 2018)

Background/Significance

- WPV leads to nurse absenteeism, job dissatisfaction, burnout, turnover, and intent to leave the profession
 - Nurses suffer PTSD, fear/anxiety of workplace, degraded quality of care
- WPV is huge cost to organization
 - Average cost of one nurse turnover is \$58,000
 - Average hospital losing \$6.6 – \$10.5M/ yr.

Underreporting of WPV

- WPV is further complicated by **underreporting**
 - True magnitude and scope of WPV goes unknown
- As low as 6.5% and 12% of nurses will formally report WPV (Kvas, 2014; Arnetz, 2015)
- Underreporting is considered a significant barrier to WPV prevention
 - “What goes unreported, goes unfixed” (Vento et al., 2020)
 - Organizational leadership can’t address problems that are unknown

Underreporting of WPV

- **Nurse barriers to reporting WPV:**
 - “part of the job,” misconception of what constitutes WPV, anonymity, fear of reprisal, lack of awareness of reporting, belief that nothing will change, lack of leadership support, bullying by peers, and lack of training
- OSHA's *Guidelines for Preventing Workplace Violence*... recommends enhancement of WPV reporting; even capturing “near misses”
- Revised Joint Commission standards (2021) provide a framework to guide hospitals in developing WPV reporting systems, data collection/ analysis, post-incident strategies

Local Problem

- In an emergency department:
 - 154% increase in reported violent events
 - 36% increase in team member injuries
- Consistently above NDNQI benchmark for
Total Assaults on Nursing Personnel Rate

Problem Statement

WPV in the ED is creating harm to staff and patients, which has increased by 154% from previous year and consistently above NDNQI benchmarks. WPV becomes more complex due to underreporting, making it necessary to gain a better understanding of the true magnitude and scope of the problem. Nurse and hospital leadership can only appropriately address WPV by accurately knowing the events' background, frequency, severity, time, and environment.

Review of Literature

PICO: What strategies/ interventions can improve reporting of workplace violence by nurses in the emergency department?

Search Strategy:

- **Databases:** PubMed, CINAHL, Cochrane Library, PsycINFO, and WOS
- **Keywords:** nurse, emergency department, workplace violence or aggression, incident report or self-report
- **Filters applied:** Published last 10y, English

Resulted: 207 total records

- Screening, Inclusion/ Exclusion, Full-text review
- 7 Total Studies
- Grey Literature (4) – 2 Articles, 1 Guideline, 1 Organization Position Statement

TOTAL: 11 records

Synthesis of Evidence

Overall, sufficient evidence suggest use of QI project aimed at enhancing nurse WPV reporting

- Address WPV reporting knowledge gap

(Buterakos et al., 2020; Gillespie et al., 2016; Richardson et al., 2018; Stene et al., 2015, Touzet et al., 2019)

- Multi-interventional approach (Gillespie et al., 2013; Touzet et al., 2019)

- Identify/ address nurse barriers that prevent WPV reporting

(ANA, 2019; Stene et al., 2015)

- Suggest the use of alternate reporting method

(Aladwan et al., 2022; Ramacciati et al., 2021; Richardson et al., 2018; Stene et al., 2015)

Purpose

The purpose of this QI project was to accurately capture the full extent of WPV in the emergency department through enhanced nurse WPV reporting.

Project Structure

Evidence-Informed Quality Improvement Project

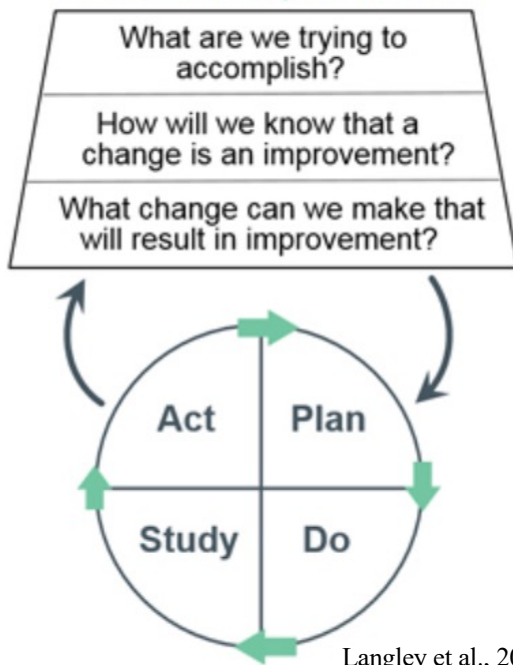
Framework:

- Plan, Do, Study, Act (PDSA) Model

Change Model:

- Kotter's 8-Step Process for Leading Change

Model for Improvement



Langley et al., 2009



Kotter, 2023

PLAN



Langley et al., 2009

- **Setting:**
 - Urban ED (Level 1 trauma) in academic medical center
 - ~70k patient visits/ yr.
- **Project Population:**
 - Emergency nurses only
- **Project Team:**
 - Nurse Manager, Charge Nurses, Clinical Practice Mentors (2), DNP Advisor, DNP 2nd Reviewer, Statistician, Chief Nursing Officer

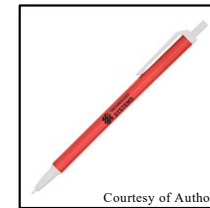
PLAN



Langley et al., 2009

Multi-interventional approach:

- WPV reporting awareness bundle:
 - Included ink-branded pen, mugs, posters/ flyers
 - Infographics about WPV and WPV reporting
 - Charge nurse huddles for reporting awareness
 - **Charge nurse engagement**
 - Clinical site walkthroughs, F2F time
 - Nurse management support and encouragement



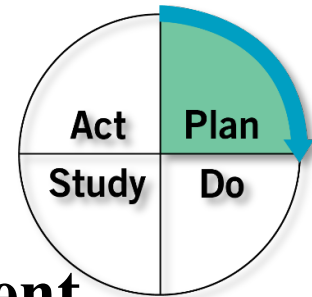
Courtesy of Author



Courtesy of Author

“REPORT Workplace Violence!”

PLAN



Langley et al., 2009

Newly-created, electronic-based WPV Reporting Instrument

- Evidence-based; Fast, easy to complete, ~1-2 min
- Not a replacement—abridged version running parallel to hospital's electronic-reporting system
- Secure reporting in Qualtrics^{XM} - High Sensitive Data portal
- Addressed nurse reporting barriers: anonymity, easy access, timeliness
- Allowed full participation by all emergency nurses, regardless of race, gender, or employment status
 - **Inclusive** of other healthcare workers

Reporting Instrument

- Accessed by QR code
- QR code available on wall flyers in nurse high-traffic areas
- Nurse badge stickers were also distributed



Image Courtesy of Author

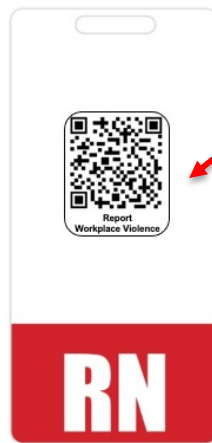


Image Courtesy of Author



Cellphone

12:29

Name of Reporter:
(optional if reporting anonymously, however leader followup cannot be provided without your name)

Occupational Role in Emergency Department:

RN

EMT

HUC

APP (APRN/PA)

MD

Security Staff

OTHER - Please Specify:

Image Courtesy of Qualtrics, 2024

PLAN

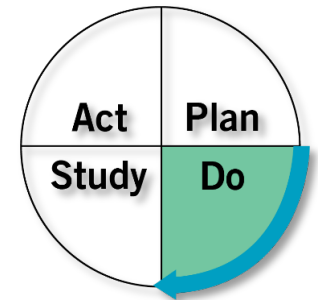


Langley et al., 2009

Data Collection:

- Process Measure:
 - Total number of QR code scans of new instrument
 - Location of reports
- Outcome Measures:
 - Total WPV reports using new instrument

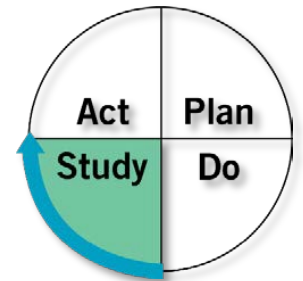
DO



Langley et al., 2009

- **Do: Implement awareness bundle & reporting instrument**
 - Staff Awareness (October)
 - Education via Infographics, Nursing leadership emails
 - Clinical site Rounds
 - Charge nurse messages @ shift huddles
 - Go-Live Implementation (November-December)
 - Data collection start
 - Reporting instrument GoLive
 - Clinical site rounds, face-to-face, feedback, food
 - **Charge nurse messages @ shift huddles, WPV progress reports**

STUDY



Study: Analyze and summarize results.

Analysis of data:

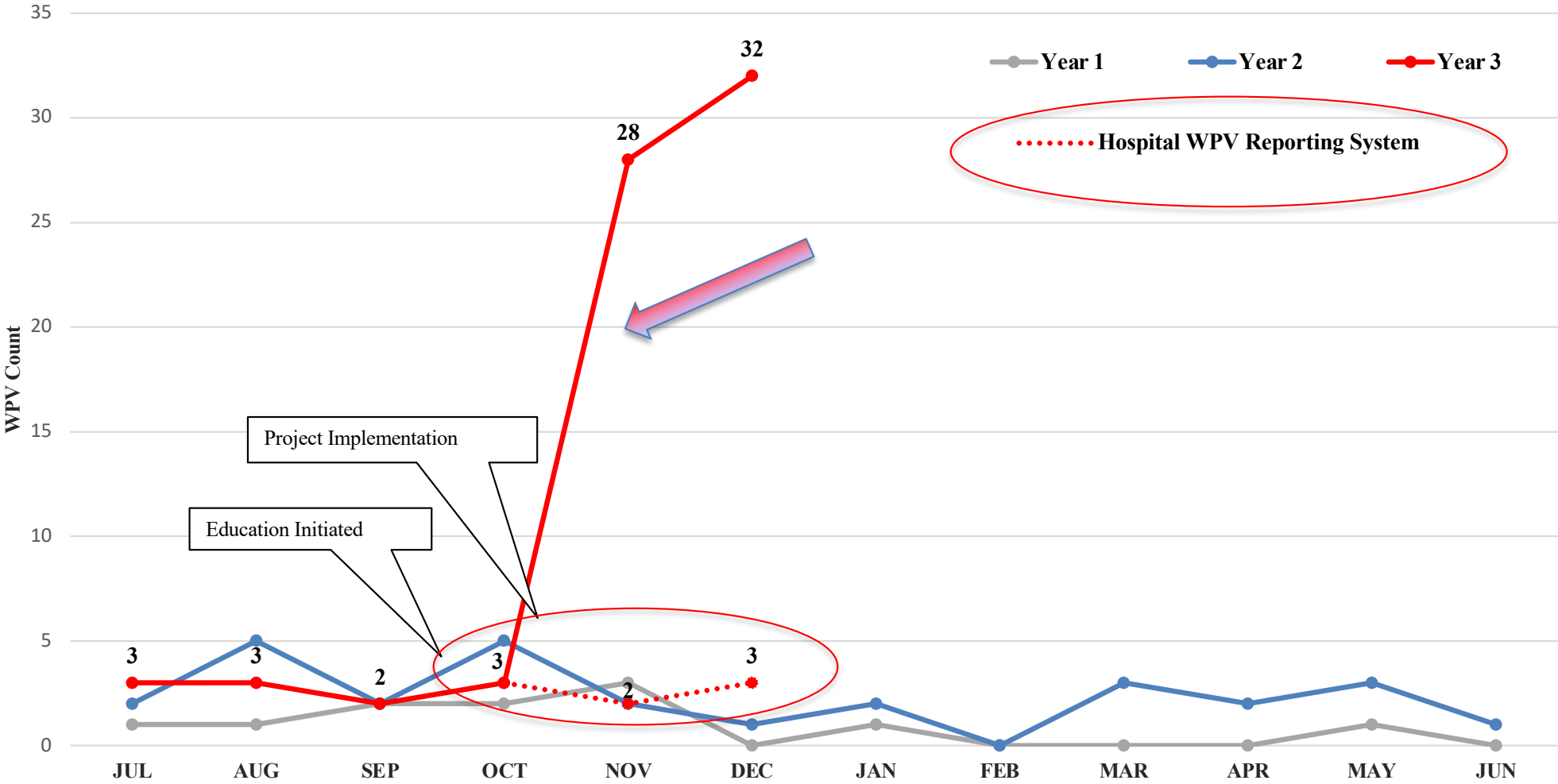
- WPV data was collected within Qualtrics and directly input into hospitals safety reporting system for two months
- Data analysis was conducted in SPSS (IBM Corp)
- No patient health information (PHI) collected; employee data was deleted when data analyzed
- Collaborated with Security and QI committee for situation awareness and further analysis

Results

- After two months post implementation, the reporting instrument accumulated 94 QR codes scans and **59 WPV reports**, resulting in an overall 1000% increase in ED WPV reporting*
- 47% of WPV reports were filed anonymously
- Five reports (1%) were filed outside geographic location of the hospital

TABLE Reporting instrument variable frequencies		
Characteristic	n	%
QR Code Scans	94	
Incomplete Reports	35	
Complete Reports	59	
Occupational Role		
Registered Nurse	46	78
EMT	11	19
Other (HUC, Security)	2	3
Types of Violence*		
Verbal Abuse/ Threats	49	83
Physical Violence	6	10
Physical Violence w/ Injury	3	1
Sexual Assault/ Harassment	3	1
Perpetrator of Violence		
Patient	52	88
Patient's Family/ Visitor	7	12
Location of Event*		
Treatment Room	22	37
Triage	17	29
Waiting Room	11	19
Behavioral Health Section	9	15
Hallway	7	12
Trauma	1	0.2
Time of Day		
0001 - 0600	14	24
0601 - 1200	9	15
1201 - 1800	27	46
1801 - 0000	9	15
Interventions/ Resources Used*		
De-escalation Techniques	39	66
Security Called	33	56
Provider Team Called	18	31
Pharmacological Restraints	9	15
Physical Restraints	3	5

Emergency Department Total WPV Counts



Additional Findings

- Overwhelming positive support by emergency nurses, charge nurses, & nurse leaders
- Emergency nurses expressed “feeling heard”
- Given the number of QR code scans in comparison to reports filed, nurse WPV underreporting still likely occurring

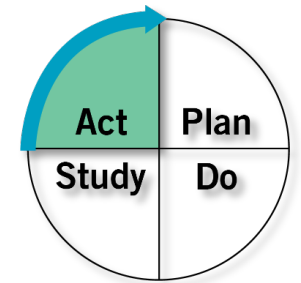
Conclusion

- WPV reporting using a multi-interventional approach and feasible reporting instrument enhanced emergency nurse WPV reporting
- New reporting instrument reduced nurse reporting barriers; allowed for anonymity and reporting outside geographic location
- Improved collaboration across the ED nursing team (especially charge nurses) and brought attention to WPV awareness, communication, and post-event staff follow-up

Recommendations

- Increase awareness/access to all ED staff
- Consider nurse leader clinical rounds to foster a safety culture, nurse trust, and address the concerns about anonymity of WPV events
- Create collaborating partnership between ED, Security, UPD, and local law enforcement/ magistrate for more comprehensive, robust ED WPV prevention program
- Develop an WPV Visual Management Board visible to staff

ACT



Langley et al., 2009

Act: Based on lesson learned...

- Adapt, **Adopt**, Abandon
- Act upon emerging data trends from WPV reports
- Sustainability:
 - Project handoff to emergency nurse/ WPV Lead
 - New ED WPV interprofessional committee formed
 - ED Visual Management Board – WPV trends

Cost-Benefit Analysis

WPV Project Costs:	(NOTES)	UNIT COSTS	TOTAL
Materials/ Supplies:	Posters, Flyers, Mugs, Pens, Badge Stickers	--	\$400
Nurse Staff Time:	4 hr./ wk. (192hr/yr.) (Avg. salary ED RN in VA ~\$80k/yr.)	\$38.46/ hr.	\$7,400/ yr.
			Total Projected Cost/ Year: \$7,800/ Year
<u>Nurse Turnover</u> Cost Savings:	(NOTES)	UNIT COSTS	TOTAL
Nurse Turnover:	Avg. cost one (1) RN turnover = \$58,000 (Adj. inflation 2024) (talent acquisition, hiring, preceptorship, training)	\$58,000/ 1 RN turnover	\$58,000
			Total Cost Savings/ Year: \$58,000/ Year
<u>Return on Investment (ROI): 744%</u>			
<i>(Total Cost Savings/ Total Cost x 100)</i>			

Ethical Considerations

- IRB determined project to be quality improvement, exempt from oversight
- WPV reporting was completely voluntary from participants
- **Autonomy** –
 - Victims of WPV have right to exercise control over the situation and decision-making process
- **Nonmaleficence** –
 - Leadership should be committed to a safe and healthy workplace for all employees
 - Should be confidential way to report WPV without fear of reprisal/retaliation

Dissemination Plan

- Executive Summary to ED, CNO, Security, QI, Research
- Podium presentation @ Emergency Nursing 2024 Conference (Sep 2024)
- Publish manuscript – *Journal of Emergency Nursing*

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Questions ?

*Courtesy of University Communications, UVA

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