

DEPARTMENT OF EPIDEMIOLOGY

UNIVERSITY of WASHINGTON School of Public Health



Literature Review

Patient, injury, provider and hospital characteristics associated with opioid use

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Vivian Lyons, MPH, PhDc



Background

~80% of current heroin users report their opioid use beginning with nonmedical use of prescribed opioids ~1/2 of injury patients who present to the Emergency Department (ED) are discharged with opioids

Evidence that psychological trauma can impact risk of opioid use dependency



Prior Research

Large body of work on sustained opioid use, but much less that focuses on the trauma population

Many studies group opioid and non-opioid drugs as one analgesic group



Question of Interest

Are there patient, injury, provider or hospital characteristics associated with opioid use during hospitalization, immediately post-discharge and in the year following injury?



Summary of Findings

	Opioid Use During:			
	Hospitalization	Post-discharge	Next Year following Injury	
Patient	↑ White, ↓ black↑ Injury↓ Mental illnessInsurance	 ↑ White, ↓ black ↑ Older ↑ Injury ↑ Married ↓ Male ↓ Anxiety diagnosis In hospital use* 	 Pre-injury marijuana use Alcohol dependence Tobacco dependence Depression and anxiety History of trauma Perception of pain Filling discharge prescription Female Lower SES 	
Injury	↑ High pain score	♣ Fracture♠ Surgery♠ ISS	♣ Fracture♣ SurgeryISS	





Summary of Findings

	Opioid Use During:			
	Hospitalization	Post-discharge	Next Year following Injury	
Provider	More experienced Attending Wide variability	More experienced Attending	★ High intensity provider	
Hospital		↑ Urban ED, rural ED Regional differences	Patient reports of well-managed pain	



Conclusion

Injury and trauma were associated with opioid use in hospital, immediately following discharge and long-term.

Future studies should explore provide and hospital characteristics associated with opioid use.

Conflicting results between national studies and single-site studies -> importance of verifying findings with state and national data.

