



Healthcare Providers Interactions and Attitudes Regarding Intravenous Drug Users

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Project Objectives

This study aims to compare attitudes of several groups of providers regarding comfort level in treating and collaborating with patients who use intravenous drugs at the same large safety net hospital in Denver, Colorado.

Background

- Use of intravenous drugs is a growing problem with an increase in the incidence of substance use disorder over the last decade across all age groups and all demographics (1,2).
- Primary care providers have noted a discomfort with caring for patients with substance use disorder, related to both provider knowledge as well as patient's "misbehaving" (3,4).
- Patients with substance use disorder have reported feeling withdrawal symptoms are not adequately addressed
- Patients with substance use disorder have reported feeling their providers are not adequately educated on the needs of patients with substance use disorders (7,8)

Study Design

- Conducted at a large tertiary academic safety net hospital
- Survey was developed and disseminated to both the Department of Internal Medicine and the Department of Emergency Medicine.
- Study data were collected and managed using REDCap
- Survey reminders sent out three times over the course of three months via email
- The survey results were later analyzed via ChiSquare analysis.

The study was deemed non-human subjects research with no identifying factors and therefore exempt for Institutional Review Board Review.

Respondent Characteristics

71 Total Respondents

Provider Role	88.7% Physicians 4.2% Nurse Practitioner 7.0% Physician Assistant
Department	Emergency Medicine: 16.9% Inpatient 28.2% Outpatient 54.9%
Length of Practice	0-5 years: 38.3% > 6 years: 61.9%

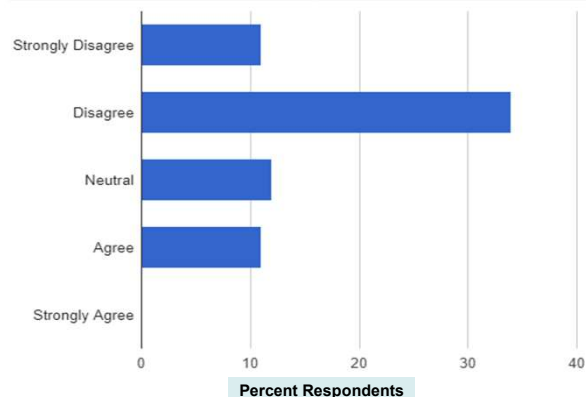


Figure 1: Responses to "I communicate differently with intravenous drug users than non drug users"

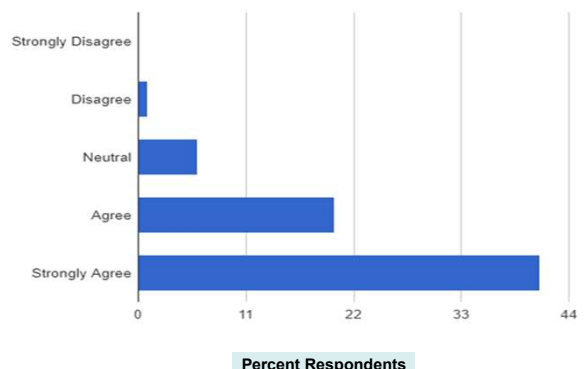


Figure 2: Respondents to "I believe naloxone is an important prescription to provide to all intravenous drug users"

Discussion

- Providers report feeling that patients who use IV drugs are more challenging to work with, more likely to leave against medical advice, and less likely to adhere to a treatment plan possibly damaging the patient-provider relationship and negatively affecting care.
- Most providers report having seen colleagues treat patients who use IV drugs differently than their non-drug using counterparts. Respondents report they themselves provide equal treatment, possibly indicating a discrepancy in perceived versus actual treatment.
- Most respondents feel confident in treating withdrawal, providing MAT for substance use disorder, and prescribing naloxone however with numbers less than 100% this is a possible area for improvement.
- Length of experience as a provider indicated that providers in practice for longer tended to hold more biases in relation to treating this patient population
- This study was limited due to the number and type of respondents. Future areas of study include more information regarding non-physician providers as well as more ethnic and racial diversity among respondents. Further evaluation should be done to see how biases held affect care provided.

References

1. Mendenhall C, Gorman S. An Exploration of Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder. *J Addict Med*. 2014 Mar;18(3):333-337. doi: 10.1177/1550220213500007. Epub 2013 Oct 10. PMID: 24061000
2. Hwang R, Lippman S, Lippman S, et al. Physicians' Views on Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
3. van den Brink W, van den Brink W, van den Brink W, et al. Comparing physician attitudes towards people with substance use disorders between the general public, GPs, mental health and addiction specialists and clerics. *Int J Soc Psychiatry*. 2015 Sep;51(5):359-366. doi: 10.1177/0963823815580000. Epub 2015 Jun 10. PMID: 26000000
4. Arora J, Mehta D, Datta S, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: The Role of Training and Experience. *Am J Addict*. 2017 Jan;126(1):75-79. doi: 10.1111/ajad.12586. Epub 2016 Oct 10. PMID: 27500000
5. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
6. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
7. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
8. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
9. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
10. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
11. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
12. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
13. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
14. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
15. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
16. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
17. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
18. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
19. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000
20. Gorman S, Mendenhall C, Hwang R, et al. Emergency Physicians' Attitudes Towards Patients with Substance Use Disorder: A Qualitative Study of General Practitioners in England. *Subst Use Misuse*. 2015;50(12):1444-1454. doi: 10.1080/00207179.2015.1030000. Epub 2015 Jun 10. PMID: 26000000

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