

David Tracy, MD  
Charles Emerman, MD  
Jon Siff, MD

# Nicotine Patch Prescription Fulfillment Rate for Emergency Department Patients

# Introduction

- Background for study
  - About 20% of ED patients report cigarette use
- Importance of ED initiation
  - National organizations advocate initiation of SBIRT in the ED
- Prior work
  - Many prior studies use trained counselors
- Reason for this study
  - Evaluate prescription fills for nicotine replacement therapy



# Methods

Retrospective chart review

Identified ED patients prescribed NRT-P from Jan 2018 to Oct 2019

Data gathered on age, gender, purpose of ED visit, presence of chronic heart or lung problems, comorbid SUD

Dispense data collected through e-prescribing network

Subsequent visits reviewed to evaluate for smoking cessation

# Results

598 patients prescribed NRT-P; 500 with follow up data

Comparison of patients with follow-up data and without

## Follow-up patient data

- Avg age 43.5
- 43.5% female
- 35% chronic lung disease
- 14% cardiac disorder
- 32% SUD
- Presenting complaint 19% pulmonary, 16% cardiac
- Prescriber: 62% attending physician, 17.6% APP, 20.4% resident

About ½ patients fill their prescriptions

More likely to fill prescription if female or hx chronic lung disease



## Discussion

- Fill rate data and interpretation
- Comparison with other studies

## Limitations

- Dispense queries dependent on subsequent patient encounters
- Dependence on EHR for accuracy of medical comorbidities
- NRT-P obtained by other means, ie over the counter purchase

## Conclusion

- About ½ filled NRT-P prescriptions
- Female patients and those with chronic lung disease were more likely to do so
- Further research