

Implementing Interprofessional Alcohol Screening, Brief Intervention & Referral to Treatment (SBIRT) in the Emergency Department:				
An Evidence-Based Quality Improvement Initiative				
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Lovola University Chicago, Niehoff School of Nursing Proiect Plan

Develop & implement E-Learning Health Stream alcohol SBIRT educational module for ED nurses & social workers

Quality improvement initiative, guasi-experimental design to measure effects of educational module and EMR documentation

□ 569 bed tertiary hospital: Level I trauma center with approximately 49,000 visits annually; 80 nurses and 4 social workers

protocol regarding nurses' & social workers' knowledge of SBIRT and adherence to EMR SBIRT Protocol and documentation

□ 80 nurses, 4 social workers and all ED patients meeting inclusion (English speaking, >18, GCS 15, ESI Triage Score 3, 4, or 5)

10-question multiple choice ED alcohol SBIRT knowledge pretest/posttest reviewed by 6 content experts for content validity

Nurse/Social worker EMR documentation (inclusion criteria, AUDIT scoring, referral for positive screens, brief intervention,

Arch/April: education launched; April/May: protocol launched; May/June: data evaluation; June/July: results dissemination

Loyola IRB Exempt LU#208338; No anticipated safety risk to staff/patients; data de-identified; confidential on secure server.

□ Printing: SBIRT cue cards for nurses/social workers (\$200); Patient brochures (free); ED Information Technology services waived

□ 5-guestion Likert scale survey rating perceptions of achievement of objectives and teaching effectiveness

Evaluate learning outcomes via pretest/posttest & program evaluation

10-guestion Alcohol Use Disorders Identification Test (AUDIT) validated screening tool

□ Evaluate ED nurses & social worker's alcohol SBIRT documentation

Participants/Sample: (single convenience, non-randomized cohort)

reasons brief intervention not done, referral to treatment



LOYOLA

To develop, deliver and evaluate an alcohol SBIRT educational program, and implement an alcohol SBIRT protocol for emergency department nurses and social workers Alcohol abuse is the 3rd leading cause of preventable death contributing to over 200 diseases and injury-related health conditions Many use the ED as sole source of medical care and SBIRT may provide a window of therapeutic opportunity or "teachable moment" Alcohol-related injuries and deaths □60-70% homicides □69% fatal burn injuries □60% drowning deaths □40% fatal falls □40% suicides □38% motor vehicle fatalities

Purpose

SBIRT identifies, reduces and prevents alcohol abuse by: Identifying patients with alcohol abuse problems

Providing patients with solid strategy to reduce or eliminate use

Referring patients to appropriate services for treatment PICO: "Does developing, delivering and evaluating an alcohol SBIRT education program and protocol to emergency nurses and social workers improve knowledge and documentation quality to

support practice change?'

Effective

Theoreti

Site Nee

10	e change:
ľ	vidence-Based Initiativ
	CDIDT

SBR		Results		
Effectiveness of SBIRT Reductions in alcohol consumption Fewer repeat injuries, ED visits & repeat hospitalizations Fewer traffic incidents & DUI arrests Potential to increase adherence to alcohol treatment Ranked 4 th preventative service by USPPSTF	Likert scale rating perception of achievement of each objective	Program Evaluation	Protocol EMR Data	
Theoretical Model Roger's Diffusion of Innovations	and teaching effectiveness Alcohol SBIRT Protocol and Documentation EMR Evaluation (one month data collection time)	Patient Characteristics Positive SBIRT Scores N=40	Nurses' and Social Worker's Docu	
RE-AIM: Reach, Efficacy, Adoption, Implementation,	Nonparametric descriptive statistics: AUDIT score: risk	Sex, Male N=32 (10%)	Narue Discussedation N % Notical Worker Discussed Inclusion coloria 2531 100 Reief intervention for positi	
Maintenance	stratification; patient characteristics	Mana Age 43 Mana AUDIT Same 86 AUDIT Sames 814 (Harafal Daking) N=22 (50%)	Agree/educe screening 2531 100 Resum if brief intervention AURIT screen 519 100 Referral to best sent	
Site Needs/Feasibility	 Linked to performance evaluation: work-time allowance: CE 	AUDIT Scenes 20-40 (Possible Dependence) N=13 (22%) Disposition: Admitted to Transma Service for In-Patient SBIRT N=13 (45%)	Referral to Social Worker if positive 40 100	
Organizational needs assessment revealed practice gap	credit: weekly email reminders	Disposition Romained in SD for SRRT N=22 (59%) Chief Control of	Reloved to Social Worker of penditive 40 100 Patient disconsiders 40 100	
with no current routine alcohol screening	Stakeholder Support/Sustainability:	Taxana No25 (49%) Maxabekatal No6 (15%)	Parami anganamin ing 100	

Team support; SBIRT embedded in EMR; SBIRT champions

Objectives:

Project Type:

Sources of Data:

Project 2016 Timeline:

identified: ongoing training

Ethics/Human Subjects Protection:

Setting:

Budget:

Org with no current routine alcohol screening

Practice Implications

- Universal alcohol screening identifies those who G Revise the EMR to include 10-point alcohol screening tool and alcohol SBIRT documentation for ED nurses & social workers may otherwise be undetected until alcohol-related problems are evident
 - ED nurses & social workers play a pivotal role in screening and intervening with patients; not only to highlight the consequences of alcohol use, but also to help manage related health problems
 - The team of ED nurses and social workers, working collaboratively may be the first & only health care providers to recognize unhealthy alcohol behaviors and have an influence on behavior change
 - Recommendations for further study include following up with ED patients at 3 months & 6 months to evaluate for reduction in alcohol consumption or abstinence

Bibliography

- cademic ED SBIRT Research Collaborative. (2007). The impact of screening, brief intervention and referral for treatment on emergency department patients' alcohol use. Annals of Emergency Medicine, 50(6), 699-710
- Bray, J.W., Cowell, A.J. & Hinde, J.M. (2011). A systematic review and meta-analysis of health care utilization outcomes in alcohol screening and brief intervention trials. *Medical Care*, 49(3), 287-294.
- lesy, P.M., Kunz-Howard, P., Perhats, C., & Li, S. (2010). Alcohol screening, brief intervention and referral to treatment conducted by emergency nurses: an impact evaluation. *Journal of Emergency Nursing*, 36(6).
- D'Onofrio, G., Fiellin, D.A., Pantalon, M.V., Chawarski, M.C., Owens, P.H., Degulis, L.C., Busch, S.H., Berstein, S.L.& O'Connor, P.G. (2012). A brief intervention reduces hazardous and harmful drinking in emergency department patients. Annals of Emergency Medicine 60(2), 181-192.
- entileto, I.M., Ebel, B.E., Wickizer, T.M., Salkever, D.S., Rivara, F.P., (2005). Alcohol interventions for trauma patients treated in emergency departments and hospitals: A cost benefit analysis. *Annals of Surgery*, 241, 541-550.
- lasgow, R.E., Vogt, T.M. & Boles, S.M. (1999). Evaluating the public health impact of health promotion interventions: The RF-AIM framework. American Journal of Public Health. 89(9), 1322-1327.
- adras, B.K., Compton, W.M., Avula, D., Stegbauer, T., Stein, J.B. & Westley-Clark, H. (2009). Screening, briel interventions, referral to treatment (SBRT) for illicit drug and alcohol use at multiple healthcare sites: Comparison at Inaka and 8 months later. *Drug and Alcohol Dependence*, 99, 280-295.
- nal Institutes of Health, National Institute on Alcohol Abuse and Alcoholism. (2013). U.S. Alcohol pidemiologic Data Reference Manual Volume 9. Alcohol-Related Emergency Department Visits Epidemiologic usar Velacifiche manai diama dana de la constructione de la construction de la constructione de la constructione de la constructione de la construction de la constructione de la construction de la constructione de la construction de la constr
- n, P., Baird, J., Mello, M.J., Nirenberg, T., Woolard, R., Bendtsen, P., & Longabaugh, R. (2008). A sys www.of.emergency.com.brief.alcobal interventions for injury patients. *Journal of Substance Abuse* v of emergency care ment 35(2) 184-201
- gers, E.M. (1995). Diffusion of Innovation (4th ed.). New York: The Free Press
- stance Abuse and Mental Health Services Administration (SAMHSA). (2014). Screening, Brief Intervention and Referral to Treatment (SBIRT). Retrieved on October 13, 2014: www.samhsa.gov/sbirt/about
- ermer, C.R., Moyers, T.B., Miller, W.R. & Bloomfield, L.A. (2006). Trauma center brief interventions for alcohol disorders decrease subsequent driving under the influence arrests (2006). *Journal of Trauma*, 60, alcohol disorder: 29.34
- s Preventive Services Task Force. Alcohol misuse: Screening and behavioral counseling interventions / care 2013. Retrieved October 15, 2015 <u>www.uspreventiveservicestaskforce.org</u>.
- Il Worker's Documentation

