

Happy Hour: Trauma Patient Specific Rounding Tool Increases SBIRT Compliance and Education

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Objective

To determine if a trauma patient-specific, electronic medical record (EMR)-generated nurse's rounding tool improves compliance with screening, brief intervention and referral for therapy (SBIRT) for injured patients.

SKYLINE_MEDICAL_CENTER		Trauma Rounds Worksheet		05/25/21 1340			
G.102-A TRAUMA, MICKEY MOUSE		Preferred Pharmacy: WALGREENS DRUG STORE #03221		Last updated by: BROOKS, DOMINIQUE			
Age: 120	Hgt: 5'5"	Date/Time: 05/21/21 0211		Pharmacy Reviewed: Y			
Sex: F	Wgt: 155 lb	COVID vaccine status: Unable to assess					
Admission: 05/21/21 0218	Inpatient LOS: 4						
Anticipated DC:							
Precautions: Standard							
Diet: Full Liquid Diet	LOM: 05/24/21	STOOL:	L10:	OTHER: 05/24/21			
Malnutrition: Increased nutrient needs	05/21/21						
Vitals							
T: 98.3	Oral	05/25/21 0800	ETCO2:				
BP: 154/79	Arm upper right	05/25/21 1300					
HR: 72	Tele Normal sinus rhythm	05/25/21 1300					
RR: 19	Room air	05/25/21 0816					
O2: 100 %	Capnole: 3 L	05/24/21 2000					
Protocols							
NA:	CA: PROT:CALC 05/21/21 0218	NIP: PROT:NIP 05/21/21 0218	HEP:				
K: PROT:POTA 05/21/21 0218	PHO: PROT:PHO54 05/21/21 0218	FUL: PROT:PUL 05/21/21 0218	SED: PROT:SEDA 05/21/21 0218				
pLINE: Venous Left Forearm posterior 20 g Inserted 05/23/21 1828							
pLINE: Venous Right Forearm posterior 20 g Inserted 05/23/21 1828							
pLINE: Venous Right Wrist 20 g Inserted 05/21/21 0216							
cLINE: No CVC/PIC							
Foley: Straight 16fr In: 05/24/21 0000 Hr: 37 h 40 m							
C-Collar: Yes No							
Incentive Spirometer	Volume: Unable	05/25/21 0800	Reps:	Scale: Verbal numeric			
Patient Pain	Score: 0		Educate:				
Alcohol Abuse	SBIRT: Unable to assess		Drinks/Week:				
VTE Mechanical	Device: Int pneumat comp - knee Bilateral		Mech Cx:				
VTE Chemical	Med:		Chem Cx:				
Physical Therapy Post Fall Eds:							
NAME	START DATE	TIME	ROUTE	DOSE/RATE	FREQUENCY/SOHD	PRN INDICATION	LAST ADMIN
KEPPRA	05/21/21	0300	IV	500 MG	Q12H		
PEPCID	05/24/21	1830	PO	20 MG	DAILY		
LOVENOX 40MG/0.4ML SYRINGE	05/24/21	2100	SUBQ	40 MG	Q24H		
Notes:							
NA: 145 05/25/21 0646	HGB: 8.3 05/25/21 0649	L	INR: 1.1 05/21/21 0234	TRPO:			
K+: 3.9 05/25/21 0647	HCT: 26.9 05/25/21 0648	L	PT: 11.5 05/21/21 0234	CK:			
Mg: 2.1 05/25/21 0647	PLT: 110 05/25/21 0648	L	PTT:	CRP:			
Ca: 1.07 05/25/21 0949	RBC: 2.97 05/25/21 0648	L	pGLU: 127 05/23/21 0151	HEM: 7 05/25/21 0646			
Pho: 2.7 05/24/21 0548	MCV: 5.8 05/25/21 0648	L	LACT: 1.9 05/22/21 2005	S.CRE: 0.37 05/25/21 0646			

Figure 1: Rounding Tool

Background

- Alcohol use or intoxication is a contributing etiology for many injuries sustained by trauma patients
- To identify patients at risk for alcohol use disorder, the ACS-COT recommends the use of screening, brief intervention, and referral for treatment (SBIRT) programs [1]
- While SBIRT programs have proven to be effective in reducing alcohol-related injuries, their successful implementation is often difficult

Results

- SBIRT compliance increased from 72% in the fourth quarter of 2017 to 97% in the fourth quarter of 2018 and remained above the 80% minimum ACS-COT requirement from the first quarter of 2018 to present values
- Delivery of alcohol use disorder education improved from 30% in the fourth quarter of 2017 to 98% in the fourth quarter of 2020 and 100% in the second quarter of 2021

Methods

Population:
All patients admitted to Trauma Services

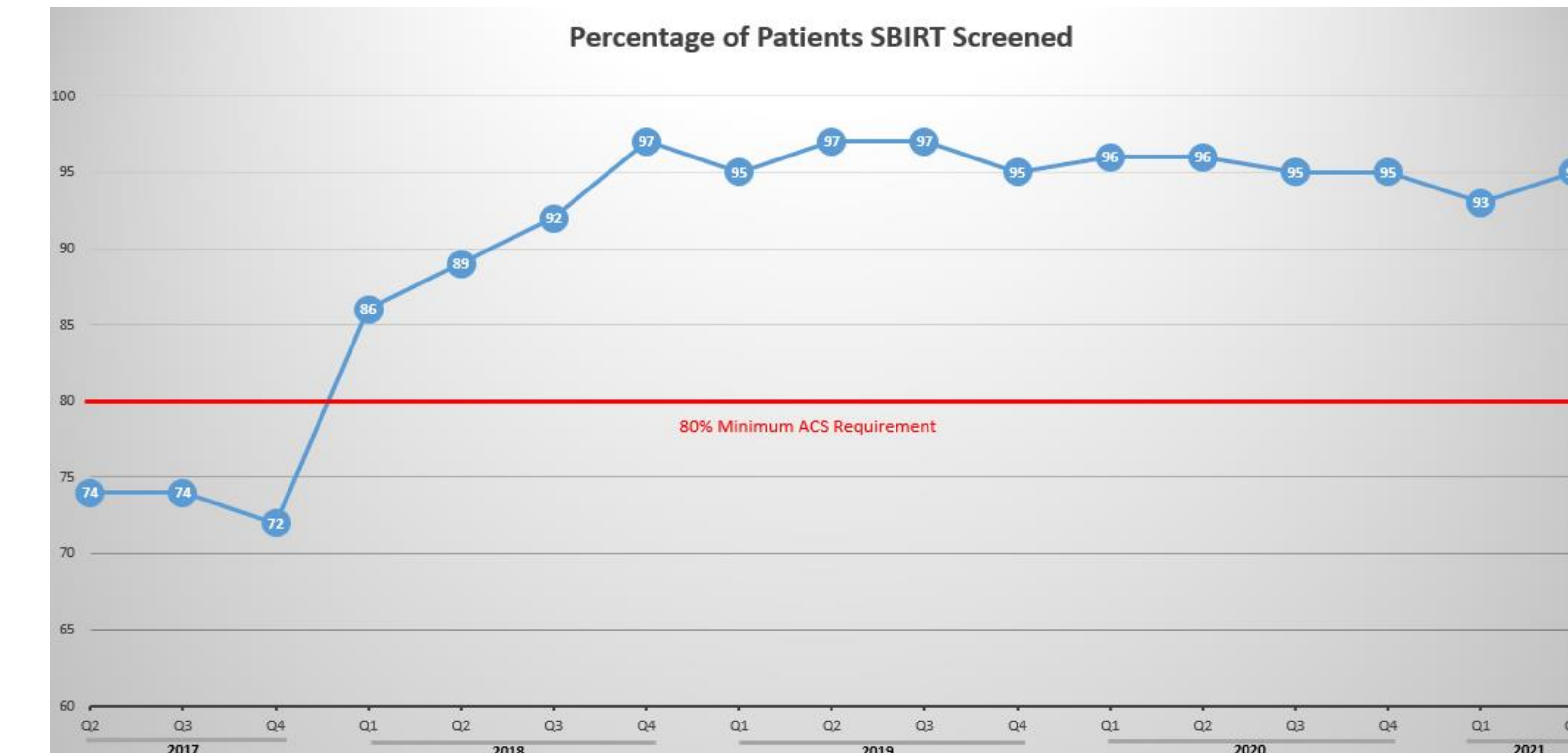
Time Period:
Q2 2017-
Q3 2021

Primary Outcomes:
1) % Patients SBIRT screened
2) % Patients Alcohol Use Disorder Educated

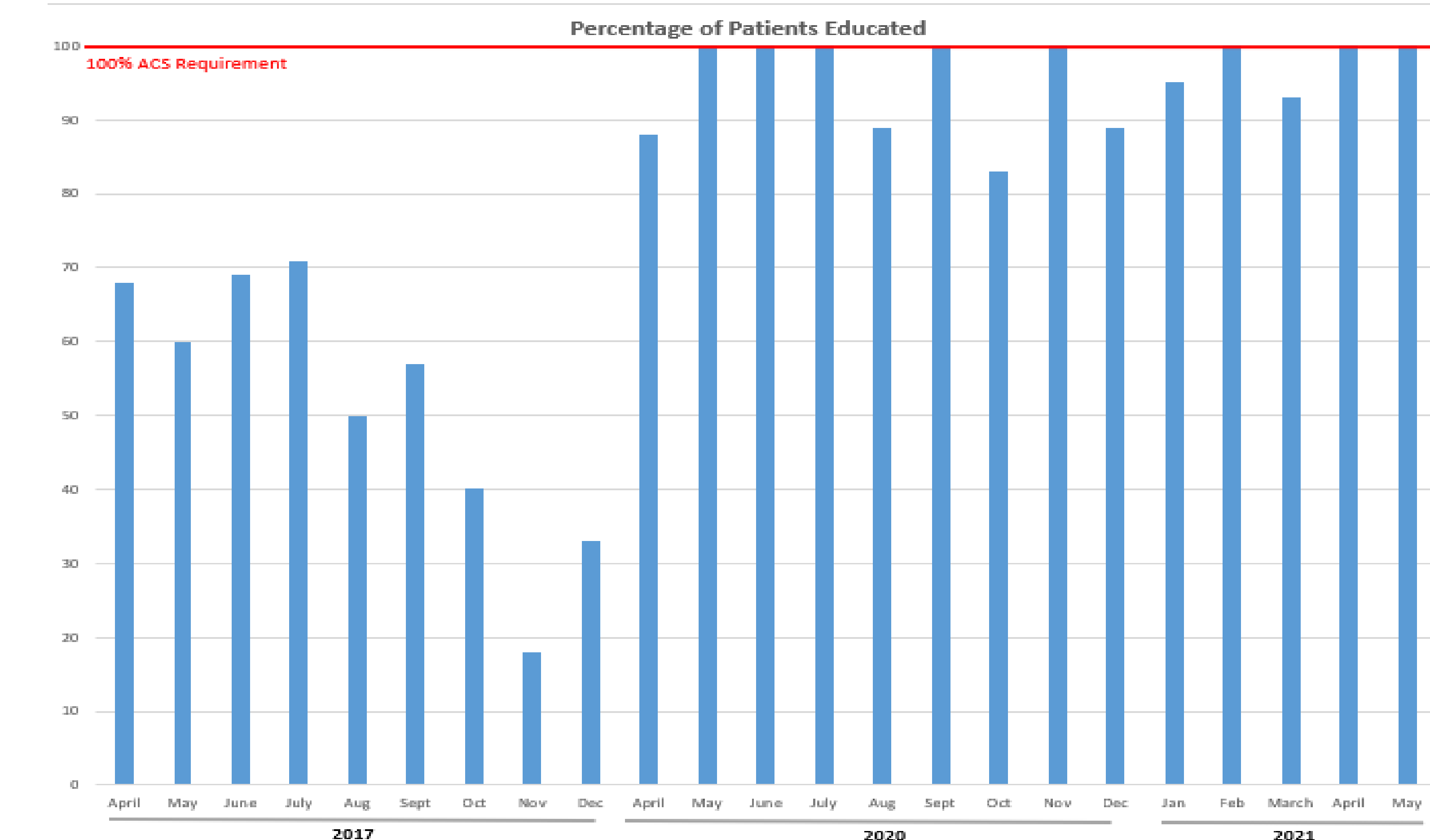
Discussion/Conclusion

- It is necessary for all admitted trauma patients involved in alcohol-related high-risk behavior to be identified and then offered appropriate resources for their psycho-social needs in an effort to prevent future injuries and reduce recidivism
- In combination with daily multidisciplinary rounds, this nurse's rounding tool provides real-time feedback regarding important opportunities in patient care and contemporaneous evaluation of trauma-specific concerns including screening for alcohol use disorder

Tables/Graphs



Graph 1: Percentage of Patients SBIRT screened



Graph 2: Percentage of Patients Educated

References

- American College of Surgeons. Alcohol Screening and Brief Intervention (SBI) for Trauma Patients: COT Quick Guide. <https://www.facs.org/~media/files/quality%20programs/trauma/publications/sbirtguide.ashx>. 09/2021.
- ACS (2014) Resources for the Optimal Care of the Injured Patient Resources Manual. 6th ed. Chicago: ACS.