

Abstract

Little is known about the impact of non-traditional visits time in therapeutic range (TTR) or patient acceptance for anticoagulation visits. Ascension St. Vincent utilized drive anticoagulation visits during the 2020 COVID-19 pandemi Results indicate that while average TTR was lower in the drive-up setting, it remained above predetermined stand of quality anticoagulation control.

Background

- Prior to the COVID-19 pandemic, patients were seer anticoagulation management inside the clinic, typically minute appointments
- During the pandemic, anticoagulation visits were condu outside at the patient's car to promote social distancing, the verbal portion of the visit occurring over the phon the previous day
- TTR is used as a marker of clinical efficacy in many r anticoagulation trials
- CHEST guidelines for Antithrombotic Therapy for Fibrillation recommend that in patients on warfarin, a >70% indicates good quality anticoagulation control¹

Objectives

- Determine the difference in TTR in patients when seen the clinic (2019) and in the drive-up (2020)
- Compare reported incidence of adverse bleeding events patient satisfaction scores between the 2019 and 2020 study period

1. Kearon C, Akl EA, Ornelas J, et al. Antithrombotic Therapy for VTE Disease. Chest. 2016;149(2):315-352. doi:10.1016/j.chest.2015.11.026 2. Reiffel J. Time in the Therapeutic Range (TTR): An Overly Simplified Conundrum. Journal of Innovations in Cardiac Rhythm Management. 2017;8(3):2643-2646. doi:10.19102/icrm.2017.080302

Assessment of drive-up anticoagulation pharmacy visits on clinical outcomes and patient satisfaction

Alana Juodvalkis PharmD, Kacey Carroll PharmD BCGP BCACP, Toni Eash PharmD BCACP, Brad **Bentfield PharmD, Todd Foster PhD**

		Metho			
on r ve-up nic.		 Retrospective chart review performed on par June 12, 2019 and the same patients in the d Medication Management Services (MMS) Inc. or the Primary Care Center Indianapolis. 			
dard		 Deidentified patient satisfaction surveys wer Indianapolis subgroup 			
		 records inaccessible) Patients started warfarin within 14 days Data collected included the following withi 	Discontinuation of warfarin between the s records inaccessible) atients started warfarin within 14 days bef a collected included the following within t		
n for in 15 ucted	 Patient demographics TTR in 2019 and 2020 Number of adverse bleeding events reported ICD-10 codes were used to determine numbleeding or clotting events Number of visits in each year 				
, with					
ne on					
major			n (%		
-			816		
Atrial		MMS Carmel 1	.05		
a TTR		MMS Fishers 9)4 (
		PCC Indianapolis 7	' (1		
		Figure 1. TTR 2019 vs 2020 ■ 2019 ■ 2020			
in	r of patients		fro N fro		
s and	Numbe	100	fro		
		Average Percent of Time in Therapeutic Range			

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atients seen in the clinic April 2, 2019 drive-up April 2, 2020 - June 12, 2020 at dianapolis, MMS Carmel, MMS Fishers,

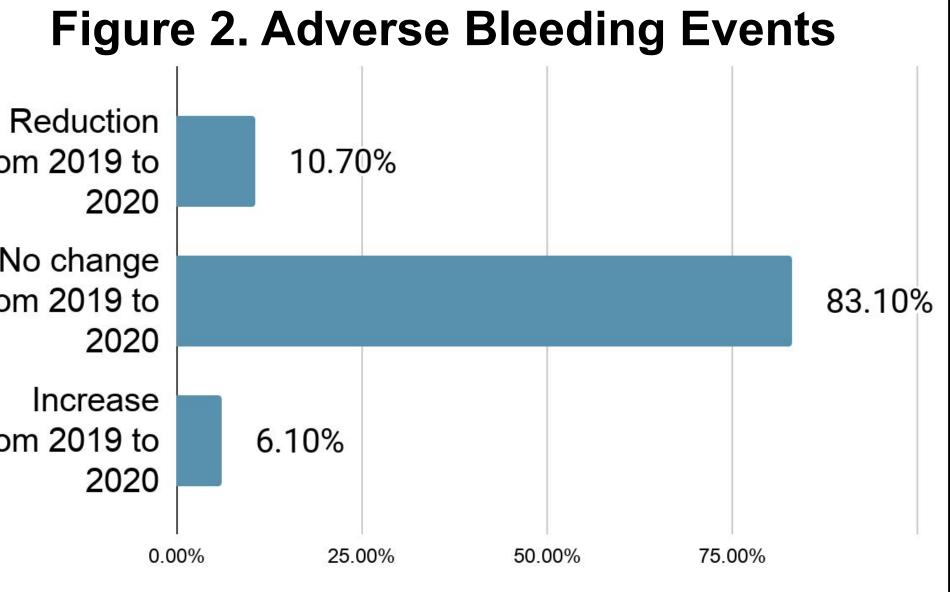
re handed out to patients in the MMS

study period and start of trial (patient

fore the start of study period the study time frame:

ed in each year nber of hospitalizations associated with

raphics (n = 522)	
6)	
6 (60.5)	
6 (20.1)	
(18)	
3)	



- listed in Table 1

- manner

- having to hold warfarin
- quality of their care

This is the first study done at Ascension St. Vincent to assess the clinical safety and efficacy of non-traditional anticoagulation visits. If there were another pandemic, patients indicated they would prefer being seen in the drive-up. Further studies are needed to confirm these trends which cannot be generalized to the broader population.

ST. VINCENT INDIANAPOLIS

Results

• 522 patients met inclusion criteria. Population demographics are

Primary Outcome: TTR for all sites (p < 0.001)</p>

- 2019: Median 95.7% (Mean: 81.3%)

2020: Median 84.3% (Mean: 74.8%)

• Number of patients experiencing bleeding events is found in Figure 2 • On average, patients had 1 less visit in 2020 than in 2019

There were not enough hospitalizations to determine any difference

• Survey responses indicated that patients were satisfied by the quality of care they received in the drive-up but some patients believed the staff did not communicate clearly or perform the visits in a timely

If the world experienced another pandemic, 72.6% of patients would prefer the drive-up, while only 29.7% would prefer the drive-up if there were no concerns for a pandemic

Discussion

TTR does not differentiate between values far outside therapeutic range vs. values slightly out of range²

Despite a statistically significant difference, the mean TTR in 2020 was above the 70% marker of good quality control

Lifestyle changes during pandemic could have impacted TTR in 2020 Less elective surgeries in 2020 may have resulted in less patients

Conclusions

TTR for patients in the drive up was statistically less than TTR for patients seen in-clinic, though not clinically significant

Patients overall preferred in-clinic visits if there were no concerns for a pandemic, but did not feel that the drive-up visits affected the

Implications