Edmonton Zone Medicine Quality Council Partnerships in Action Strategic Clinical Improvement Committee

Alberta Healt

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Background

- Medical Interpretation Services (MIS) is the evidence-based gold star recommendation for communication with patients with limited Englis proficiency (LEP).
- Literature shows that when MIS are utilized, there is an increase in preventative measures; patient adherence with their medication & management plans; patient understanding of their disease processes patient perception of autonomy; and increased dignity within their h journey. Supreme Court of Canada mandates American Sign Language used for any patients who are hearing impaired.
- Currently, in-person interpreters are utilized, ranging from trained me professionals to ad-hoc interpreters, such as family members, bystan and children. Ad-hoc interpreters increase risk of adverse outcomes failing to interpret accurately, violating patient confidentiality and trig trauma. ASL is typically not available through ad-hoc interpretation.
- Trained in-person interpreters are costly & pose availability concerns however, remote MIS via digital platforms, such as video and phone, available on-demand and significantly more affordable (Figure 3).
- Cost of remote MIS is covered by the provincial health authority, Albe Health Services, however it is not consistently utilized across the prov Phone Remote Interpretation (PRI) is the AHS recommendation for m clinical situations due to availability and cost, followed by Video Rem Interpretation (VRI) and lastly, in-person interpretation (IPI). IPI was b as the COVID-19 pandemic began, leaving only remote MIS tools as v options for interpretation.

Aim

By Dec 31st, 2020, we aim to implement a process that activates remote usage for any patient with limited English proficiency, in the Emergency Department & Ambulatory Care Centre, in order to improve accuracy of assessment and quality of patient communication.

Method

- The Model for Improvement provided the quality improvement framework to support our project.
- The Donabedian conceptual evaluation framework guided the development of the study measurement approach to determine intervention effect.
- This project estimates the enaction of multiple PDSA (Plan, Do, Study, Act) cycles once the MIS activation process is initiated.

Model for Improvement



Figure 1: Model for Improvement

Acknowledgements

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Contact

We are grateful for the support of the following members of our team: Ellen Bruseker, Emily Ling, Areej Rajeh, Hillary Salmonson, Jennifer Woods, Yvonne Suranyi & Betty Kinjerski

Covenant Health

Development of a Multi-Faceted Quality Improvement Study to Improve Clinical Assessments and Communication with Patients with Limited English Proficiency Nazia Sharfuddin MD, Pamela Mathura MBA, Lindsay Bridgland MD, MSc, DTMH and Narmin Kassam MD, MHPE

		Gaps Ident	tified & P	ropo	sed F	uture State	9		Preli	minar	ry Res	sults		
Table 1: Identified G	iaps				Table 2: Propose	d Future State				• Total number	prof calles 150			
Technology Access	Emergency Department Inpatient General Internal Medicine General Internal Medicine Amb Clinic i. Limited access to consistent WI-FI i. Limited access to consistent WI-FI Clinic ii. Limited access to telephone during clinical assessment Clinic iii. Lack of tablets with Video Remote Interpretation (VRI) application V. Lack of visible signage in healthcare sites, patient areas, clinical assessment rooms or in digital form v. Indigenous languages are not available via remote interpretation Standardized process for using MIS thr			Ambulatory	Technology Access	Emergency Department Inpatient General General Internal Medicine Internal Medicine Ambulatory Clinic i. Put up visible signage in reception, patient rooms, clinician offices ii. Develop how to guide available digitally		cine	 Fotal number of calls: 159 Total number of minutes: 1789 PRI - <u>Cost Comparison:</u> Estimated IPI Cost: \$15,900 					
Norkflow				S throughout	Workflow	 Create standardized flag on referral letter identifying language barrier Create forced function on EMR to identify language barrier when inputting referral, triage or chart review Create automatic reminder on EMR to use MIS for all natients with identified language barrier 			Actual PRI Cost: \$1,538.54 Cost Savings: \$14,361.46					
2020, thus there may be a lag in incorporating it into regular patient encounters				letter to end		 iv. Establish flag on EMR/Triage whenever a patient with language barrier arrives at the Emergency Department or clinic that then triggers a language pathway for that patient, so that each point of their journey, they are spoken to in their preferred language. 		e Emergency each point	 Total number of calls: 65 Total number of minutes: 806 					
 There is no standardized flag on referral letter identifying language barrier There is no forced function on electronic medical records (EMR) to identify language barrier There is no automatic reminder on EMR to use MIS There is no standardized process or workflow mandate that outlines consistent usage of MIS for LEP patients 						 V. Create standardized process or wor patients with limited English profici 	rkflow mandate that outlines consistent usage of iency	MIS for	VR	Estimated IP Actual VRI Co Cost Savings	n <u>son:</u> 1 Cost: \$6,500 ost: \$1,249.30 5 : \$5,250.70			
 Training & Awareness i. Lack of awareness on availability of technology, the various modalities of interpretation, how to use and where service ii. Inaccurate perception of cost: whether service covered by central Alberta Health Services (AHS) budget or indiv department; difference in pricing per modality iii. Lack of strategic training sessions for physicians, nurses, allied health and administrative staff on how to use the iv. No mention of MIS during new employee orientation v. Lack of defined strategic sponsorship from senior leadership in adoption of MIS 				to access each vidual	Training & Awareness	 Create usage infographic/poster prototype describing the various modalities of interpretation, how to use and where to access each service as well as associated cost Create one-page instruction sheet that explains how to use each MIS service and the clinical situations that best fit each modality At time of new hire orientation, include slide or brief presentation on medical interpretation for all healthcare workers, including clerical and administrative support Recruit champions at the organization executive leadership level who can positively influence their direct reports in MIS adoption 			Figure 6: MIS Usage in ED From March to September 2020					
				e services.					Mai	r Apr May	Jun Jul	Aug Sep		
 i. There are no audits of patient outcomes or clinical workflow processes around using MIS ii. Clinicians and healthcare workers lack understanding on the importance of using MIS over ad-hoc or no interp LEP patients iii. Lack of understanding of adverse outcomes associated with not using MIS for LEP patients. Lack of understanding 				etation with	Understanding of	 Create one-page infographic highlighting the evidence behind medical interpretation Disseminate the one-pagers mentioned above to all Department of Medicine physicians 			Video Minutes on IOW 35 Phone	216 134	75 99	137 110		
	 iv. Lack of formal educational sessions around the evidence-based practice of MIS and associated outcomes, at a medical education & practice 			levels of	r atient Outcomes	 administrators, executive directors and nursing managers iii. Conduct training sessions for physicians and nurses that highlight evidence behind me interpretation services iv. Present evidence based educational sessions at academic holf days for trainage as we 		nedical	Number of PRI	48 31	43 80 7 6	386 395		
t Experience	i. Lowest utilization of medical interpretation services in Edmonton Zone	 Inpatients unable to communicate needs and updates to medical team increasing risk of adverse outcomes or complications 	 i. MIS not utilized when patients are appointments ii. Appointment letter to the patients English 	e called to book s sent in		 v. Present evidence based educational grand rounds, divisional meetings f v. Develop MIS resource toolkit that is 	or all physicians s available by both paper and digital format	ven as at	Number of VRI calls in ED 6	13 11	5 8	11 11		
	 Patients do not feel heard or seen Patients unaware of right to medicate 	al interpretation or existence of MIS	iii. Increased risk of no-show rates at initial appointments	t follow up or	Patient Experience	Hold targeted trainingi. Holdsessions and strategicfor worimplementation for allGIM wasworkers in the ED: physicians,ii. Creat	training sessions i. Use MIS when calling pat rkers on inpatient book appointments ards ii. Appointment letter trans te flag on patient patient language and then	ients to slated into sent	ED proportion of Total Hospital-Wide MIS	% 37.65% 17.57%	10.71% 10.94%	24.86% 25.27%		
	iii. Patient needs not communicated toiv. Clinician instructions, explanationsv. Increased risk of missed diagnoses,	to clinician or healthcare staff s or counselling not conveyed to patient s, missed complications, medication non	ts n-compliance, re-admissions and adve	erse outcomes		nurses, allied health and door th clerical support languag	at identifies ge barrier		ED proportion of Total Hospital-Wide 2.04% MIS Minutes	6 32.76% 15.76%	6.87% 8.55%	17.38% 21.24%		
									(VRI + PRI) Table 3: N	/IS Usage in ED Fro	m March to Sept	ember 2020		
Multi-Faceted Ol Interventions								Arabic (20%)						
									Swahili (11%)					
PDSA 1 Introduction of Interpreter-on-Wheels (IOW) at Alberta H					lealth Language Interpretation Resources				Tigrinya (9%) Somali (8%)					
					AHS Recommended	omparison Guide	Alberta Health			Cantonese (7%), Dari (7	7%)			
)W is a tablet attac	LD. IVIAICII ZJ	D, ZUZU The IOW application on the tablet inc	cludes both PRI & VRI capabilities.	РН	HONE B V	IDEO	Interpretation & Interpreting Ser Translation Services English Translation: Point to your language. An interpreter will be called. The interpreter will be called.	vices Available		French (6%)				
Thus, no additional telephones are required to use the PRI option. • Disseminated information about availability of IOW in ED. Created docking spot for IOW, located beside ECG machines in high traffic					Anytime • Routine clinical	Anytime Complex Routine & Complex clinical assessments conferences	American Sign Language Image: Sign Language <	Oromo Furjumaanni ni waamama. «ka malee siif qophaawa.		Spanish (5%)				
 area. Provided MIS usage posters (Figure 4 & 5) at ED. Held targeted training sessions for care providers in the ED. 					Patient instructionsGoals of Care	 Patient instructions Goals of Care Clinical assessments expected to last > 60 	Amharic አማርኛ Punjabi ቋንቋዎትን ያመልከቱ። አስተርጓሚ ይጠራል። አስተርጓሚው በነጻ ማህጀ ਭਾਸ਼ਾ ਵੱਲ ਇਸ਼ਾਰਾ ਕ	ਪੰਜਾਬੀ ਲੋਹ ਜਿਸ ਮੁਤਾਬਕ ਇਕ ਦੁਭਾਸ਼ੀਆ ਬੁਲਾਇਆ	American Sign Language (4%)*, Oromo (4%) Figure 7: Top 10 Languages in ED *ASL only available on VF					
onducted a MIS car	e provider assessment survey to determ	nine next steps to sustain MIS usage ((October 2020).			Rearing impaired minutes	ਜਾਵੇਗਾ। ਤੁਹਾਡੇ ਲਈ ਦੁਭਾਸ਼ Arabic العربية اشر إلى لغتك. وسيتم الاتصال بمترجم فوري. كما سيتم إحضار کانگر الى لغتك. وسيتم الاتصال بمترجم فوري. كما سيتم إحضار	ਾਰ ਦਾ ਰੁਫਤ ਇਤਜ਼ਾਸ ਕਾਤਾ ਜਾਂਦਾ ਹੈ। Русский м вы говорите. Вам вызовут			, is comy			
PDSA 2 MIS Educational Sessions: June 30, 2020 TIME to connect					On-Demand One mand Immediate to 30 seconds Immediate \$0.86/min \$	On-Demand mediate to 30 secondsSchedule Advanced booking needed1.55/min\$100/hrbid by requesting writeDivide	Переводчика. Услуги переводчика предоставляются бесплатно. Питуся Півуду саній. Cantonese 廣東話 Somali Af-Soomaali Бата ки біірічрадаада Waxa laguugu yeeri doonaa turjubaan. Farta ku fiiqiuqadaada Waxa laguugu yeeri doonaa turjubaan. Turjubaanka wax lacagi kaaga bixi mayso. Farsi Spanish Español					S		
 Resident Physician led training sessions conducted for General Internal Medicine physicians highlighting evidence on MIS. Present evidence based educational sessions at academic half days for residents/fellows, grand rounds, divisional meetings. Develop MIS resource toolkit for physicians, learners and support staff. NO SHOW fees 					240 + American Sign Language* + American Sign Language + American Sign Language Señale su idioma y llamaremos a un intérprete. El servicio es gratuito.				The COVID-19 pandemic has highlighted					
					None Dial in when needed\$100/hrFindiFighTagalogTagalogDial in when needed\$100/hrPaid by requesting unitavr-1 भाषा को इंगित करें। जिसके अनुसार आपके लिए दुभाषिया बुलाया जाएगा। आपके लिए दुभाषिया की निशुल्क व्यवस्था की जाती है।turo po ang inyong wika. Isang tagasalin ang ipagka nang libre sa inyo.				communication in delivering timely and					
				HOW 1	1. Dial 1-866-874-3972	1. Obtain AHS iPad or 1. Unit Manager or Triage	Korean 한국어 Tigrinya 귀하께서 사용하는 언어를 지정하시면 해당 언어 \$??\$"ዀም ኣምልኩቱ። ኣ	<i>ትግርኛ</i> ተርጓሚ ከጽዋእ ይኸአል አዩ፡፡	accessible	e care along	side improv	ving reach		
PDSA 3 GIM Clinic: November 1, 2020					2. Enter 6-digit client ID# 3. Choose language OR 1. Obtain AHS iPad or	Video Interpreter on WheelsClerk calls In-Person Interpretation agency2. Confirm Wi-Fi connectionchecks Interpreter availability3. Choose language2. AHS Manager needs to	통역 서비스들 무료로 세공해 드립니다. '가서Carl, አቶh64&P n Mandarin 普通话 请指认您的语言,以便为您提供免费 的口译服务。 '고 지하고 한 대회 Vietnamese	ار دو اینی زبان پر اشارہ کریں۔ ایک ترجمان کا انتظام آپ پر بغیر کسی خرچ کے کیے Tiấng Viật	of public	health and s	afety infor	mation.		
up visible signage ate resource tooll	e, such as MIS usage poster (Figure 4), in kit for physicians and clinic staff.	n reception, patient rooms, clinician o	offices.	2	Video Interpreter on Wheels 2.Confirm Wi-Fi	4. Click on Video sign off on request 3. Interpreter booked	आफ्नो भाषातर्फ औँल्याउनुहोस्। एक दोभाषेलाई बोलाइनेछ। तपाईको कुनै खर्च बिना, एकजना दोभाषे उपलब्ध गराइनेछ। gọi đến, quý vị sẽ không	a quý vị. Một thông dịch viên sẽ được phải trả tiền cho thông dịch viên.	Effective	communicat	ion betwee	en patients		
Establish process of identifying patients with language barrier, by inputting into electronic medical records (EMR) (Figure 2). • Held training sessions for clinic staff on how to use MIS.				3	connection 3. Choose language 4. Click on Audio	Note: For any changes of cancellations, booking clerk needs to give 24	© 2019 LanguageLine Solutions www.LanguageLine.com		and physicians is an important					
 Programmed all phones in clinic to have PRI feature as speed-dial feature, easing usage. Develop physician MIS usage guide for use in clinic and telemedicine 						Interpreter	Figure 5: Patient Information Poster Showcasing Top 20 languages in Edmonton With the Same Message		_ determinant of the quality-of-care					
evelop physician IVI	s usage guide for use in clinic and telen			For further information: Ellen Bruseker	6		"Point To Your Language For Interpre	ters"	patients r	receive as we	ell as their	overall		
Manager, Interpretation & Translation Services (780) 719-6627 ellen.bruseker@ahs.ca						American Sign Language paid by central AHS budget					experience with the healthcare system. By			
LEP Flag: Identified at referral receiptLEP Flag digitally entered in EMRMIS Utilized to book appointment/call patientMIS utilized at clinic receptionMIS utilized at RN assessmentMIS utilized at MIS utilized at MIS utilized at RD assessmentMIS utilized for booking patientMIS utilized for bookin					MIS Usage Poster S	howcasing the Digital			there is a significant potential to improve patient-centered and evidence-based					
					d to In-Person Inter	pretation								
Figure 2: Proposed MIS Activation Clinic Process									clinical care to bridge disparities in health delivery and outcomes.					
							Figure 3: Interp	preter on						

References



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