Collaborative Connections-Impacting Care Learning Collaborative

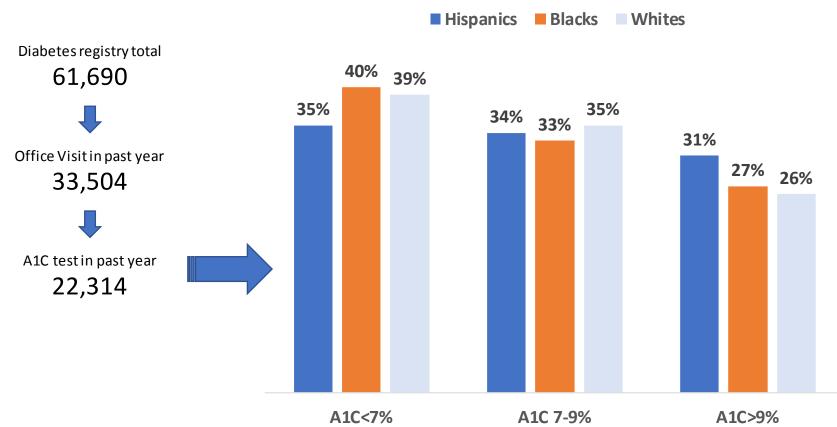
Diabetes Care – The Parkland Experience

Luigi Meneghini, MD, MBA Professor, UT Southwestern Medical Center Executive Director, Global Diabetes Program, Parkland Health & Hospital System





Diabetes Registry: Office visits & A1C testing

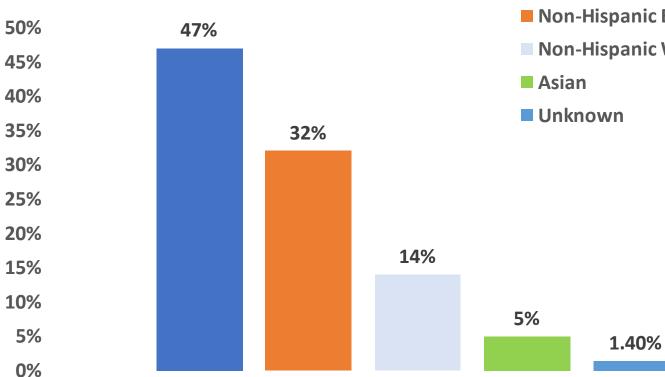


A1C distribution among ethno racial groups





Diabetes Registry: Ethno-Racial Distribution

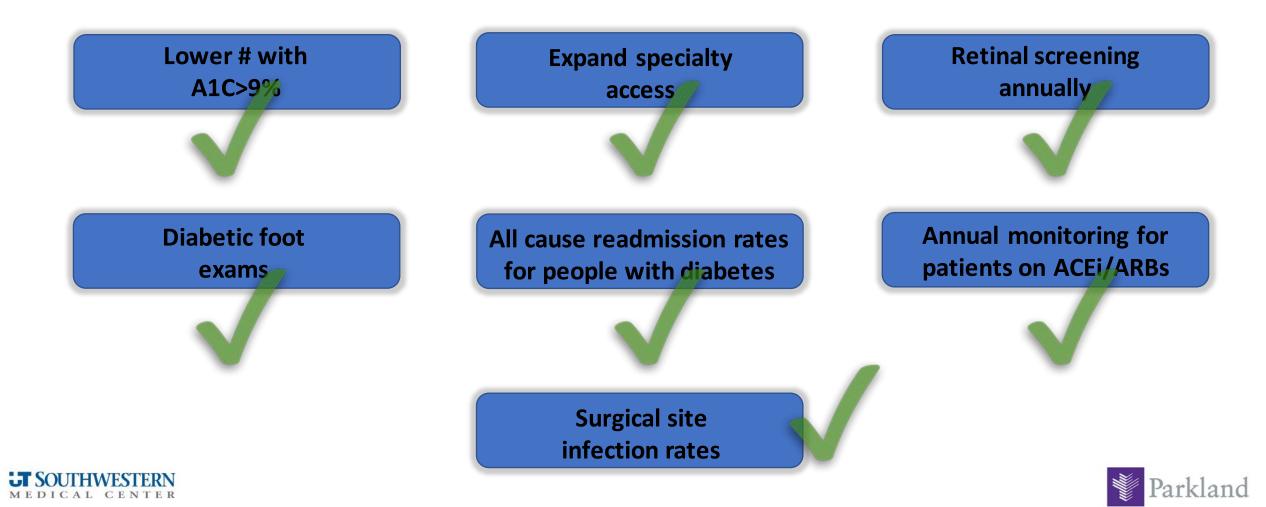








1115 Waiver Program projects that touch diabetes













MISSION

Provide integrated diabetes management, education, support and research that will improve outcomes for individuals and communities entrusted to our care

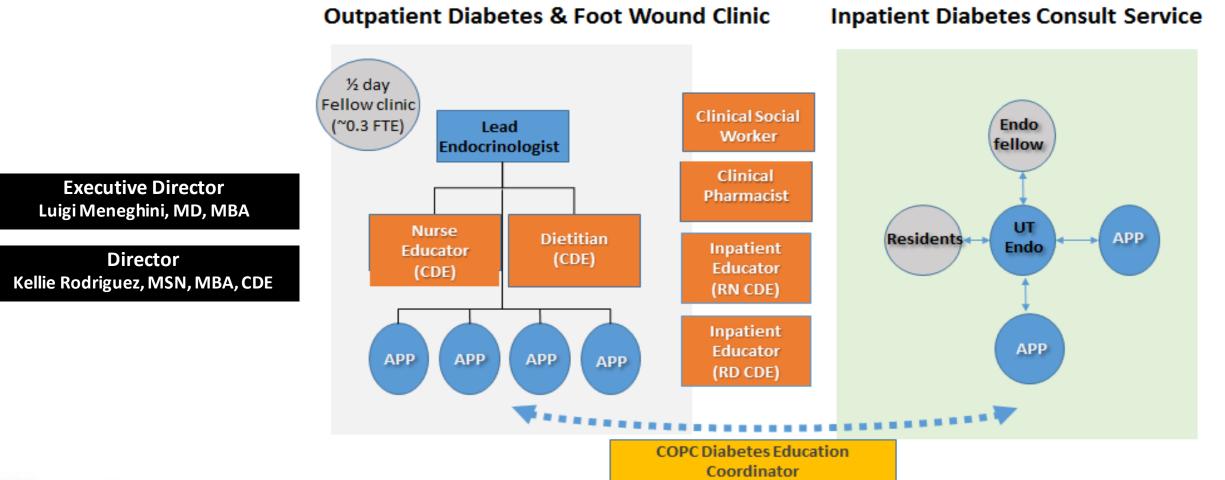
VISION

Establish Parkland as an internationally recognized safety net health system for diabetes care





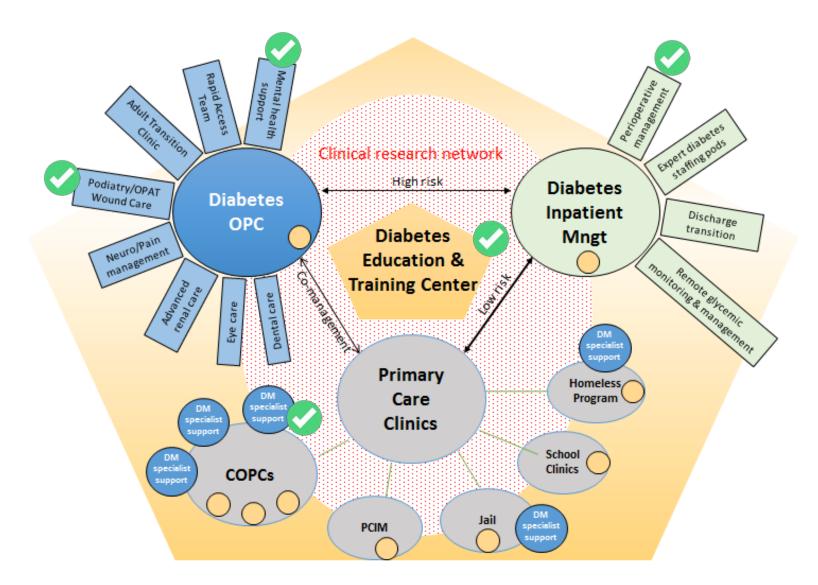
Where we are today







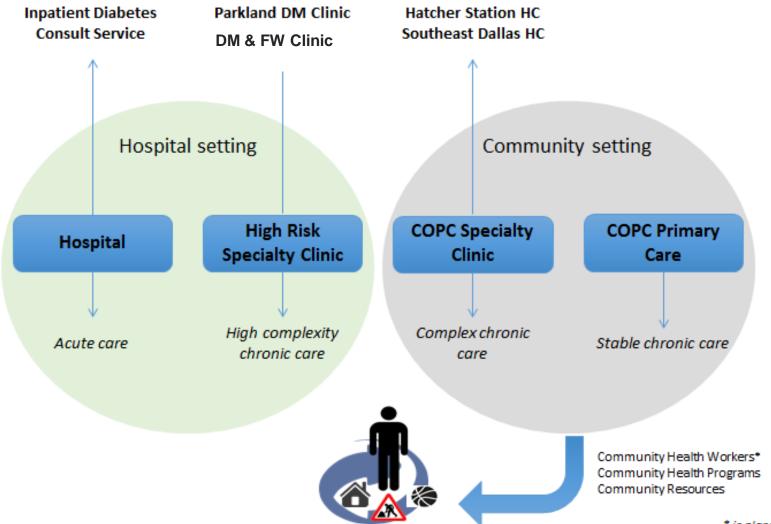
What we hope to achieve







Bringing specialty care to the patient







Connecting the Stakeholders

DOQ-In Committee



Meet monthly F2F &/or WebEx

Physicians Uma Gunasekaran Neelima Kale Sentayehu Kassa Perveen Malik **Elizabeth Obialo** Emran Rahman Members: Nurses **Juanita Chism Anjum Varshney Ellen Zignego-Smith Social Worker Diann Francis** Dietitians Sharon Cox **Community Dev. Specialist** Lisa Padilla

Clinical Pharmacists Steven Boatright Sheeva Chopra Stacy Mathew

Administrators Jane Hunley Gretchen Collins Ronald Session James Perez

Practice Operations Sal Nevarez

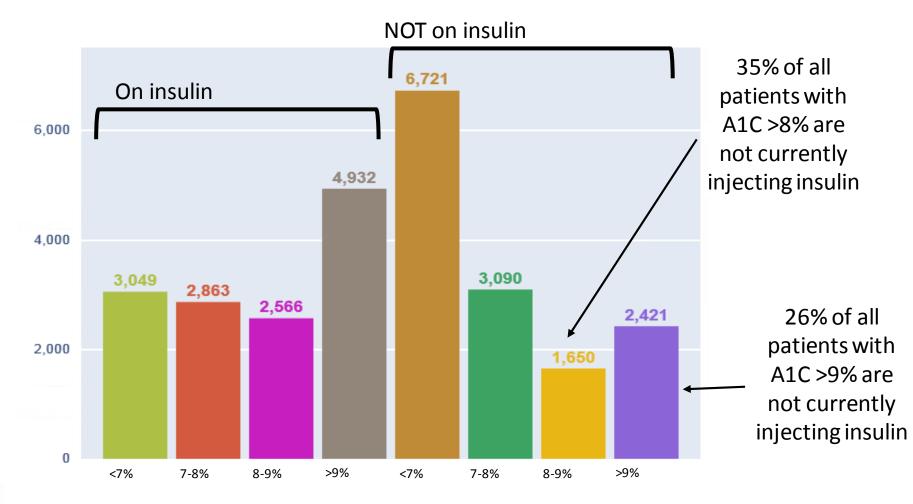
Information Technology Clay Townsend Prakash Murthy Sridhar Kandukuri

Diabetes Education Coordinator Sarah Solly, MPH, RD, CDE





Recognizing Opportunity







Forging Collaborations





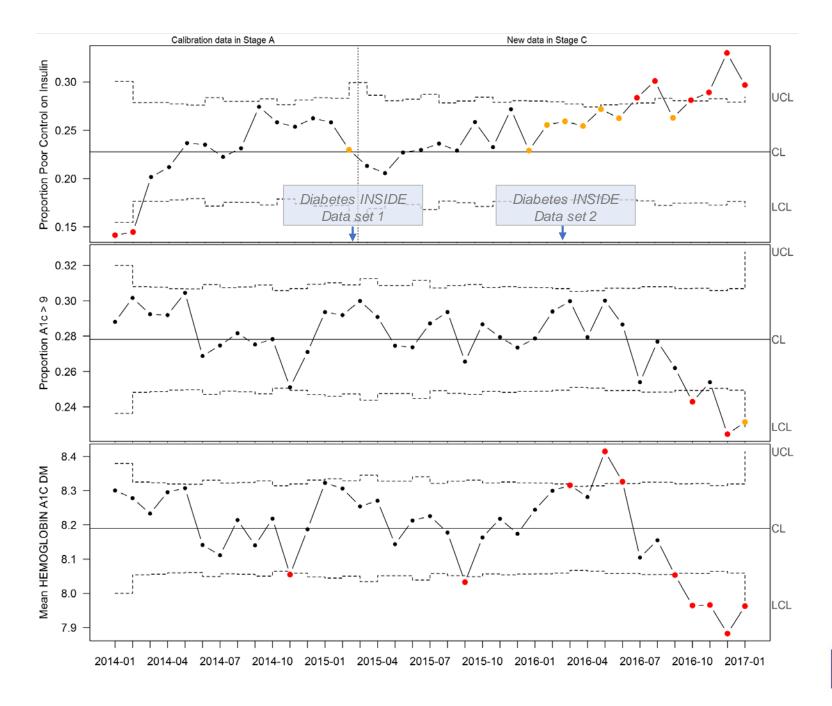


Shared Medical Appointments for Insulin Initiation & Management





Tracking Results







Standardizing Diabetes Education & Support





Bilingual Diabetes Education Materials: System-wide standardization



·kland



Healthy Living With Diabetes





Improving efficiency & effectiveness





Diabetes Overview Snapshot & P-SAM Score

Diabetes Overview

P-SAM

UT SOUTHWESTERN

MEDICAL CENTER

OPHTHALMOLOGY CLINIC

Surnery Pre-On Evaluation Clinic

DERMATOLOGY

	- 23							Diabetes Or
P-SAM (Parkland Scor	e for Adherence to Medi	cation						
THERAPEUTIC CLASS ACEI/ARB/ARBN/RI ANTIHYPERGLYCEMICS ANTIINFLAM-TUMOR NECRO FACTOR INHIBITING AGENTS Biguandes GADIOVASCULAR Incretin/Amyline Mimetics Secotonin-Norepinephrine Reuptake Inhibitor	PHARMACY CLASS Example Med: Lisinopril, Lo INSULINS SIS ANTI-INFLAMMATORY TU	ADHERENCE RATE osarta 35.34 100 MOR 0	DAY3 129 363 0 242 42 86 44	SADHERENT	FROM DATE 16-APR-17 16-APR-17 11-APR-18 16-APR-17 16-APR-17 16-APR-17 09-FEB-18	TO DATE 15-APR-18 15-APR-18 15-APR-18 15-APR-18 20-NOV-17 15-SEP-17 15-APR-18	CALCULATED DA 15-APR-18 15-APR-18 15-APR-18 15-APR-18 15-APR-18 15-APR-18 15-APR-18	TE INSUFFICIENT DATA
Diabetes Composite S	core		I Vitals				★ Current Medications 5	
0 - 2 Points: High R 3 - 4 Points: Mediu 5 Points: Low Risk Details 🗧		Change: 🕇	вр	Office Visit from 4/20/2018 in DIABETES CLINIC 128/87	Office Visit from 4/19/2018 in Gyn Clinic 128/54	108/68	adalimumab 40mg/0.8mL Sub-Q injection kit Alcohol Swabs	Inject 160 mg (4 syringes) under the skin, followed mg (2 syringes) two weeks later (Day 15). Begin 40 syringe) weekly dosing two weeks later (Day 29). Use as directed.
			Pulse Weight	68 150 kg (330 lb 9.6	77 151.2 kg (333 lb 6.4	80 148.3 kg (326 lb 14.4	Blood Sugar Test Strip	Use as directed 4 times a day and as needed for log blood sugar.
Last Diabetes Education	on Class		BMI	oz)	oz)	oz)	blood-glucose meter	Use as directed
Date 03/06/2018	Type Education		BMI		59.1		dicyclomine 10 mg capsule	Take 1 capsule by mouth 4 times a day, before me at bedtime
Provider: Marisa C Aguillor			Foot Exa	m			ergocalciferol 50,000 unit capsule Insulin Regular Hum U-500 Conc	Take 1 capsule by mouth one time a week Inject 135 units (0.27mL) under the skin in the mor
Last Nutrition Visit			Foot score:	10/26/2016 7 2 0	/26/2017		500 unit/mL solution	before breakfast, 135 units (0.27mL) before lunch a units (0.12mL) before dinner.
Date 12/20/2017 Provider: Sheral Cade, RD, Description: Diabetes (Prin	Type Nutrition LD nary Dx); Obesity; Diabetic gastro	naresis	Diabetes	Retinal Screening			insulin U-500 syringe-needle (BD INSULIN SYRINGE U-500) 1/2 mL 3 gauge x 15/64" syringe lancets 30 gauge	use 1 lancet to test blood sugar three times a day
			Last Retin	al Screening Date	12/12/2016 3/14/2018		Levonorgestrel 20 mcg/24 hr (5 years) Device	1 Device by INTRAUTERINE route one time
🛱 Recent Outpatient			-	ed Eye Exam coming Ophth or Opt	4/27/2018		losartan 50 mg tablet metFORMIN 500 mg tablet	Take 1 tablet by mouth one time a day Take 2 tablets by mouth two times a day with meal
Adays ago Epigastria Kim, Jaehyun, MD	pain disheter mellitur	POMETES CUNIC	Appointm	3/28/2018	4/20/2018			let Take 1 tablet by mouth daily at bedtime
	r for long-term (current) drug	LAB RJA	1). Little in or pleasure	e in	0		Spironolactone 50 mg tablet	Take 1 tablet by mouth daily for 1 week and ther increase 1 tablet by mouth twice a day thereafter
	er for long-t <mark>er</mark> m (current) drug	DERMATOLOGY	doing thin 2). Feeling depressed hopeless:	down, 0	0		SUMAtriptan succinate 50 mg tab	let Take 2 tablets (100mg) at onset of headache, ma after 2 hours if needed. Not to exceed 4 tablets hours.
3 weeks ago		Cat Scan	Total of Pl- items 1-9:	IQ 9 0	0		C Upcoming Health Main	tenances
🛱 Recent ED Visits an	d Hospitalizations						a opcoming reader than	Completion Date Date Due
3 weeks ago	Deliz Guzman, Claudia A., MD, ED	Ventral hernia without obstruction or gangrene, ED (DISCHARGE)	Metabo	lic Lab Values 10/24/2017 11/10/2017 7:59 AM 5:06 AM	2:24 PM 9:12 AM		SCREENING PAP SMEAR DIABETES FOOT SCREENING RETINAL SCREENING	1/13/2016 01/13/2017 7/26/2017 07/26/2018 4/27/2018 04/27/2019
5 months ago	Luong, Shan Renee, MD; Williams,, 13HOSB	Single kidney, ED to Hosp- Admission (Discharged) (ADMIT)	A1C Cholestero		188 197 -	8.3 (H) 🗔	e Problem List	
8 months ago	Furmaga, Jakub Feliks, MD, ED	Hyperglycemia, ED (DISCHARGE)	Triglycerid High Density		192 (H) 188 (H) 36 (L) 44 (L)		Pkamb Diabetes Problem List Hyperlipidemia	
1 year ago		(DISCHARGE)	Density Cholestero	4				nplication, with long-term current use of insulin
1 year ago	Benitez, Fernando L., MD, ED	Pilonidal cyst, ED (DISCHARGE)	Non-HDL Cholestero		152 153	-	This is a filtered list. 18 active pro	blems are not being displayed here.
1 year ago	Walsh, Teresa Michele, MD; Alcale, 8GYNON	Ovarian teratoma, right, ED to Hosp-Admission (Discharged)	CHOL/HDL Ratio		50 40 -		Goals	
			Recent	Lab Values			Lifestyle	
				11/20/2017 1/25/2018 1/	25/2018 3/28/2018 4/3/2	018	Maintain Healthy Weight & Plan Medication	Regular Exercise
			Creatinine	6:46 AM 9:10 AM 9	12 AM 6:53 PM 3:20		Take medications as recommende	ed
			UR Creatinine eGER	1.04 (H) - 0.	87 1.03 (H) 1.12	(H)	Future Appointments	

0.87

>60

>60 55 4/27/2018

5/8/2018

5/29/2018

>60

eGFR

eGFR



Expand Access to Specialty Care

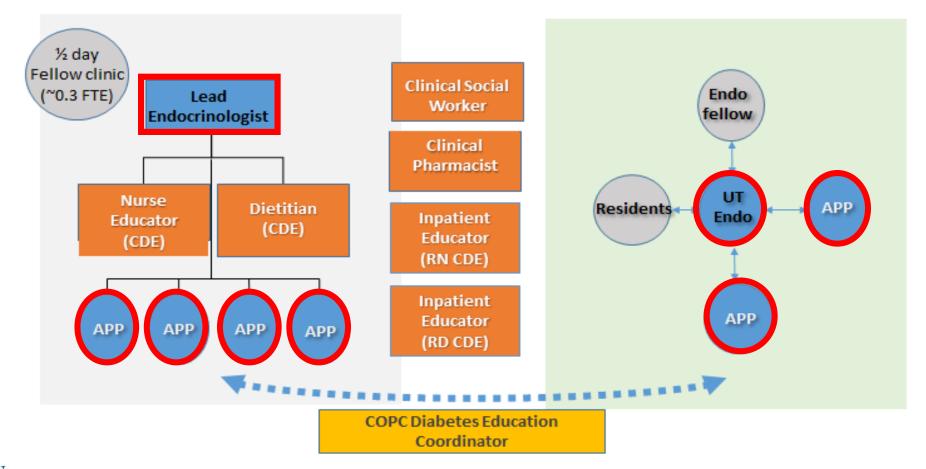




Specialist-APP Model of Care

Outpatient Diabetes & Foot Wound Clinic

Inpatient Diabetes Consult Service

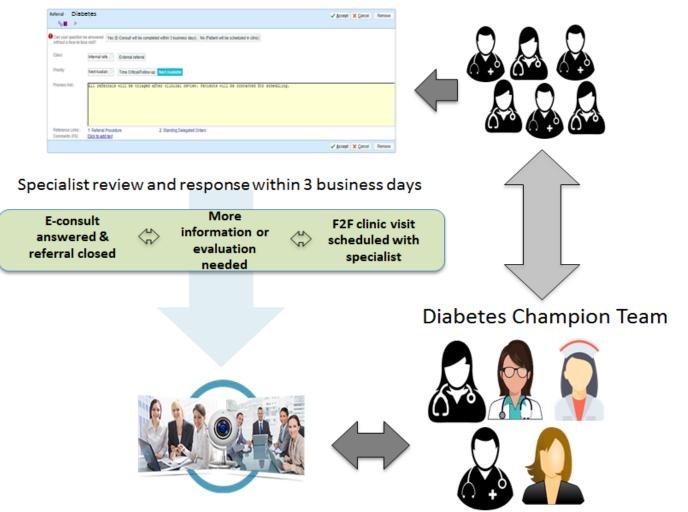






Diabetes e-Consultations & Education Sessions

Referral: Choice of F2F or e-consultation

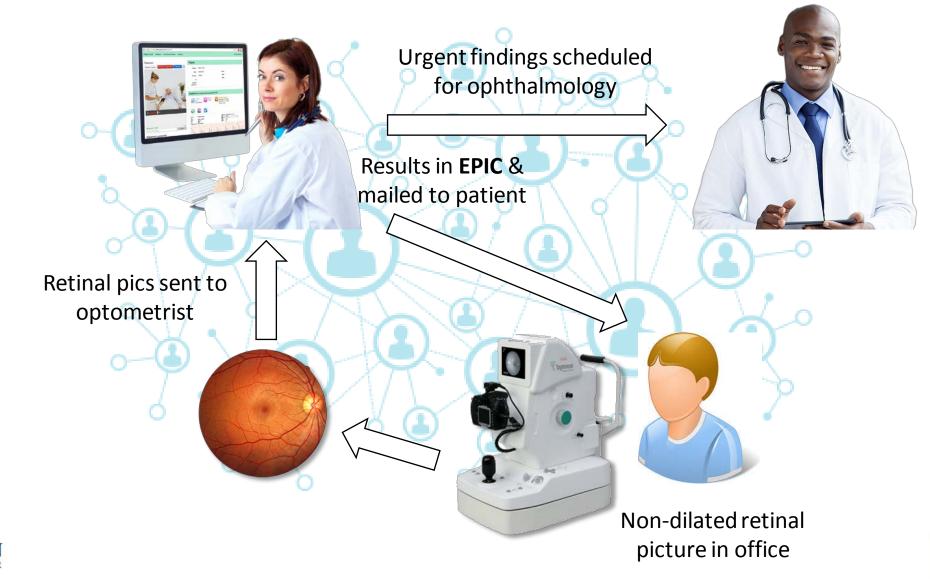




Bi-Weekly ECHO-style conferences to discuss cases & learning points



Expand Retinal Screening in Primary Care







Diabetic Foot Screening Flowsheet

Patient Re Patient c/o Orthopedic Orthopedic Dermatolo Nails RIGHT Nails LEFT	etic Foot Screening Mode: Accordion Expanded View All 10/11/17 0700 Patient Reported History of Ulcer or Amputation Patient c/o Symptoms Patient c/o Orthopedic RIGHT		
Vascular R V Vascular L V Neurologic V Diabetic F V DIABETE V	Orthopedic LEFT Orthopedic Dermatological RIGHT Dermatologica Dermatological LEFT Dermatologica Nails RIGHT Nails RIGHT	Scores	Diabetes
	Nails LEFT Nails LEFT Nails LEFT Dorsalis Pedis Posterior Vascular LEFT Dorsalis Pedis Posterior Neurological RIGHT Monofilament	0-4	Overview Snapshot
N R Uncheck All	Vibratory Neurological LEFT Monofilament Vibratory Diabetic Foot Exam Education DIABETES FOOT SCREEN SCORING METRIC DIABETES		Parklar



Parkland

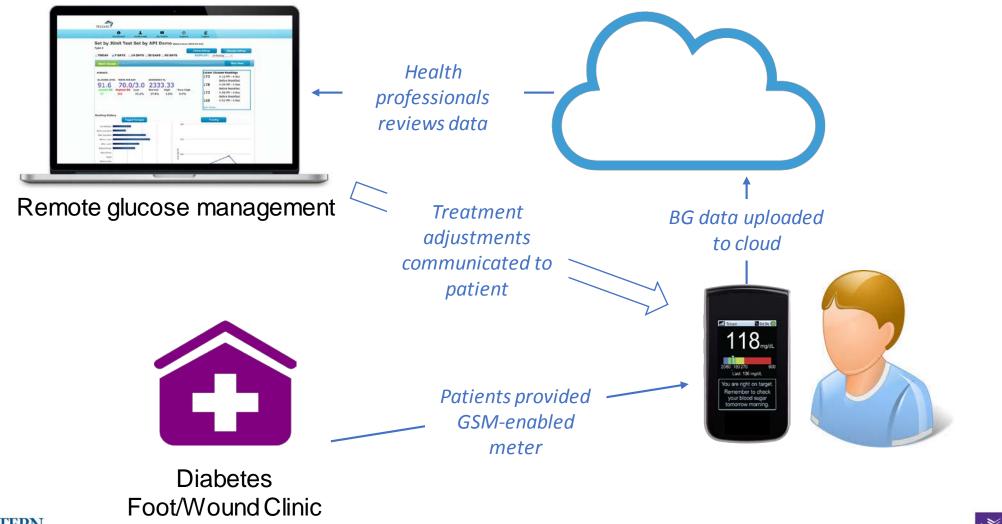
Healthy Feet Initiative

Category	Risk Definition	ACTIVE	Haces	MODIENT	tow
4	Active Foot Ulcer, Charcot		+		
3	History of Foot Ulcer, Lower Limb Amputation	Parkland ED & Inpatient Hospital	Foot Wound Clinic	Community/COPC Podiatry	Primary care or Diabetes Clinic
2	Peripheral Vascular Disease – LOPS with Callus or Deformity	Specialist Podiatry Podiatry residents Hosp. medicine	Specialist Podiatry Podiatry residents Pedorthist	DM Foot Specialist DM Foot nurse	PCP/APP Nursing
1	Neuropathy – LOPS without Callus or Deformity	ID Vascular	Casting technician ID Vascular DM specialist		
0	Normal Screening		DM specialist DM educators Social work		
100000 201500 100000	HUDGENE RESPONSE HUDGENE RESPONSE WITTER DEESSING FOR CONTENTION FOR CONTENTIA FOR CONTENTIA FOR	ť		Specialized Podiatrist	
	ASSESSMEN (SECONDATION OF A CONTRACT OF A CO		Podiatrist or trained APP Foot nurse	Podiatrist or trained APP Foot nurse	Podiatrist or trained APP Foot nurse
TERN NTER	GIENE SMOKING #FACTIVE MAN ULABETIC CONSERVATION MERSING	СОРС			COPC COPC COPC

MEDICAL CENTER



Remote Glucose Monitoring







Reducing Readmissions for Patients with Diabetes





Reducing Preventable Readmissions for Patients with Diabetes on the Parkland Inpatient Hospitalist Unit

UTSouthwestern

Medical Center

Huan Ting Chang, Benjamin Kirby, Eleanor Phelps BSN, MA, RN, Chanhaeng Rhee, MD, Uma Gunasekaran, MD, Luigi Meneghini, MD

Background

- High rates of 30-day readmission is both costly for the hospital and detrimental for the patient^{1,2}.
- Patients with diabetes are at a greater risk for 30-day readmissions than patients without diabetes due to the complications associated with diabetes³
- Previous studies have shown that the following best practices can significantly reduce 30-day all-cause readmission rates for patients with diabetes:
- Nursing-Provided Diabetes Inpatient Education in accordance to the American Diabetes Association (ADA) Guidelines^{4,5}
- 12 Step Standardized Discharge Procedures from Project Re-Engineered Discharge (RED)⁶

Local Problem

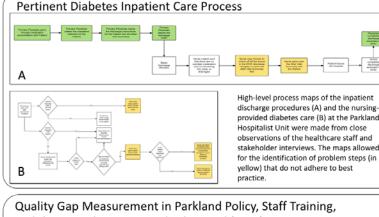
- The national benchmark 30-day all-cause readmission rate for patients with diabetes is 19.8%7
- The 30-day all-cause readmission rate for patients with diabetes at Parkland is 25.7%.
- 50% of the readmitted Parkland diabetes patients originate from the Parkland Hospitalist Unit.

Aim Statement

The primary aim of this project is to reduce the 30-day all-cause readmission rate for patients with diabetes from the Parkland Hospitalist Unit by 10% at the end of the project in January 2019.

In order to reach our primary objective, we must also improve the rate of compliance to best practices in the Parkland Hospitalist Unit by at least 10% at the end of the project.

ᆃ/目⇒



Quality Tools

and the EPIC Electronic Medical Record (EMR)

Discharge	DISCHARGE CHECKLIST	Belect Multiple Options: (FS) (Definition of Diabetes	Patient Education Decision	Iterity	famina	-
Discharge		Cist	Tax Dog Thilling	Explanation 1	Exploration 7	Total
	Review: DC Plann	Disposal of Insulin Needles	Taxable to Tellings	Patient	Pater	Print 1
39		Exercise Le., benefits, optimal time	Learning Readings	Reals interest.	Reals interest.	Reads in
	Enderson Americal advance	Faul care i.e. have be care for and when to such medical	Taget	and address	PDC .	matting in
	Future Appointme	Glucagon Le., indication, dose, prep. administration	Topic Camericana	Yes	188	
		Glucose Mater Teaching	Safety Traching Tracts	Fal Pacadon	Fal Pacadora	
ed (4)	Med Reconcillation	Healthy Eating With Diabetes tench	Tat Pasatian	the address of	Read of the lot	
60 (4)		Healthy Living with Diabetes book	Infection Presention	Handsonitong I.	Panhashing	
	Immunization Hist	Healthy Living For Pregnant Women With Diabetes book	Adminute Education			
Rec Complete	minumzaumi Pilst	Hemeglebin A1C i.e., what it is and what is normal	Then at Care	Part distant.	Page of case of	
		Home Blood Bugar monitoring	Unitation	For seals note	For result outs	
r Placed	Discharge Info	How to draw up insulin	Daground Dagage Process	Trustment Plan	Teatment Plan	
		How to access follow up care, i.e. phone numbers	Manifesting Interpretions	CROs Deares 1	(D) Oblia Deale .	
mary Written	Disability Status	Instructions for high blood sugar	Ward Care	Infection Intern	Distances in the	
	Labalanty Status		this Prevention	Pleasant Uniter	Pessen Over	-
econciled	The state of the s	Insulin administration	Designation of the local distance of the loc	Dana Grant &	Campin Donath &	
	Follow-Up	Insula Marana	Two Assessment Texasteriat	First Dorder Fire	FOA Farme Day	
		Long term complications	that Administration	PCA-Maulte	RCA/Maube	-
	Running Infusions	Medic alert ID Le., how/where to obtain	Made	some submits	Dette	
11	i contra a state a stat	Martication name indication does framericy when to ta	0.04	Activities	1744	
//	AVS Understanding	Precenception care	Case Paulo Base	Own Type	Date Now	
er Cosigned	Ava understanding	Proper lancet and syringe disposal	Datate Textbox	Det	Det	
er Cosigneo		Thick day management	Conclusion Color store Designant			
vsical Complete	Print AVS	Rigna/Rymptoms, causes of HC2H blood sugar and when	Fundamenton of Searching			
valcal complete		Tiges/Symptoms, causes of LOW blood sugar and when	End of Learning Abstraction/	Volution	Vehicut	
Placed A	⊡	Urine ketone teating	Ford of Learning (Damanet start)	444		
	⊟© B	Other (commant)	Faller Un	Rendered Intelligence	Renderse text	Read on Lot
~ ~		Comment (7.53	Putter 18 Tatl			

5 History and Phy 5 Place In Order I Discharge Procedure:

.

Required Befor

Not Comple

5Discharge Med

5 Discharge Su

KProblem List Re

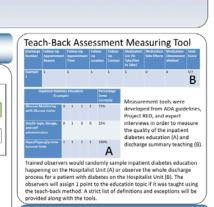
5 Admission Orde

Last Updated: 10

- There are no known Parkland policies regarding discharge taught during preceptorships for physicians and nurses.
- The physician and nursing EPIC Discharge Navigators (A&B) neither address nor enforce important discharge procedures delineated in Project RED⁶

Nursing Provided Diabetes Inpatient Education:

- The best practice for diabetes inpatient education is being enforced by the Parkland nursing policy and the new nurse orientation program
- The nursing EPIC diabetes education flowsheet (C&D) contains extraneous topics not considered best practice, and documentation of education is not enforced.



Results and Conclusions

The Parkland staff policy, training process, and the EPIC EMR do not fully adhere to the best practices for reducing 30-day allcause readmissions for patients with diabetes. Preliminary measurements on the Hospitalist Unit show that compliance for using the teach-back method is suboptimal. Next Steps

Once the formal baseline compliance rate for using the teachback method has been collected, a list of recommendations will be made to address the quality gaps FMEA will be conducted to determine the pilot interventions.

Data from the implementation will be collected over a span of 6 months

References & Acknowledgements

- Jencks SF, Wi for-service program. New England Journal of Medicine 360(14):1418-1428 Rich MW, Beckham V, Wittenberg C, Leven CL, Freedland XE, Carney RM (1995) A m ention to prevent the readmission of elderly patients with congestive heart failure. N Engl J
- Med 333(18):1190-5 doi:10.1056/NEIM199511023331806 es AL, Barrett ML, Jiang HJ, Stein spital readmissions by payer, 2011 saly SJ, Black D, Harris C, Lorenz A, Dungan KM (2013) Inpatient diabetes education is as
- with less frequent 36(10):2960-2967 ng patients with poor glycemic control. Diab Sejus/constants Clement S, Braithwaite SS, Magee MF, et al. (2004) Management of diabetes and hyper
- hospitals. Diabetes care 27(2):553-591 Jack B, Greenwald J, Forsythe S, et al. (2008) Developing the tools to administer a compr tospital discharge program: the ReEngineered Discharge (RED) program Elishauser A, Steiner C (2013) Readmissions to US hospitals by diagnosis. Agency for Healthcare Research and Quality, Healthcare Cost and Utilization Project, Statistical Brief 153:1-19

Acknowledgements 1. Gary Reed, M.D. 2. Office of Quality, Safety, and Outcomes Education 3. UT Southwestern Medical Center 4. Furkland Health & Hospital System

- Implementation of streamlined patient education documentation in EPIC
- Reinforcement of teach-back method technique
- Development of tiered nursing diabetes champions for inpatient support







Preventing Type 2 Diabetes

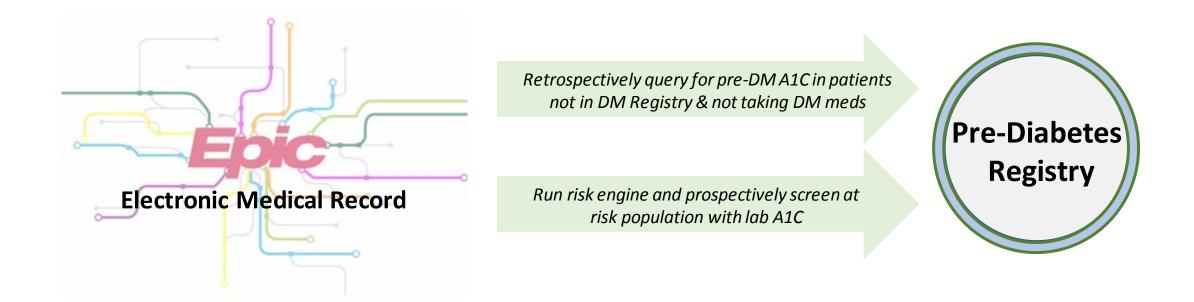




Pre-Diabetes Registry Development











Reaching Out





ParklandDiabetes.com

http://www.parklanddiabetes.com/diabetes/community-resources	Community Resources Di ×					
gested Sites 👻 🛐 CAP Surveys 🛐 ITSM Self Service 🥘 Lexicomp Online 📴 Outlook Web App 🌓 O	utlook WebAccess 🛐 Parkland Health & Hospit 🍘 Parkland Web Portal - Log 🗿 Thomson Healthcare Pro 🗿 Web Slice Gallery 👻 📓 🔻 📓					
English Español	Search Q					
Home > Community Resources	nd About Living with Diabetes Let's Talk In the Community Getting Help					
Community Resources > Help Stop Diabetes	Community Resources					
Grocery Stores Activity & Exercise Programs	Once you are ready to make lifestyle changes to improve your diabetes condition and overall health, you will likely need support to reach your goals. If you're looking for grocery stores, exercise programs, medication assistance programs or even support groups, there are resources					
Dental Services Medication Assistance	available in your community for you.					
Programs Transportation	In This Section					
Prevention Programs						
Support Groups	Help Stop Diabetes Grocery Stores					









