

Taking a Systematic Approach to Supporting Behavior Change in Diabetic Patients

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DISCLAIMER

- This webinar is sponsored by, and on behalf of Abbott.
- The information presented is based on the speaker's own clinical experience.

UNCONTROLLED DIABETES IS WIDESPREAD

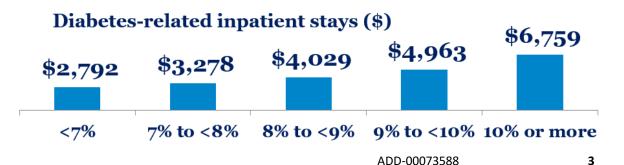
In the US, the diabetes epidemic has reached new heights: $\sim 50\%$ Of Type 2 patients have poor glycemic control (A1C>8)¹ \widetilde{P} \widetilde{P}

Single emergency service² \$1,387

A1C & Costs

Patients with **lower A1C** have **lower diabetes-related inpatient** costs.³

^a Harris ML, Eanman RC, Conce CC, Papel OM, Berchanh MS, Ravaland ethnic differences in glycemic control of th Villians Act al. J. Dialories Completions: 2012;e3(2):593-645 th Villians Act al. J. Dialories Completions: 2012;e3(2):593-645 th Villians Act al. Al. J. Marcine Completions: 2012;e3(2):593-645 th Completion Act and J. Marcine Completions: 2012;e3(2):694-645 th Completion Act and J. Alexandro Completions: 2012;e3(2):694-645 th Completion Act and the Alexandro Completion Act and the Alexandro A



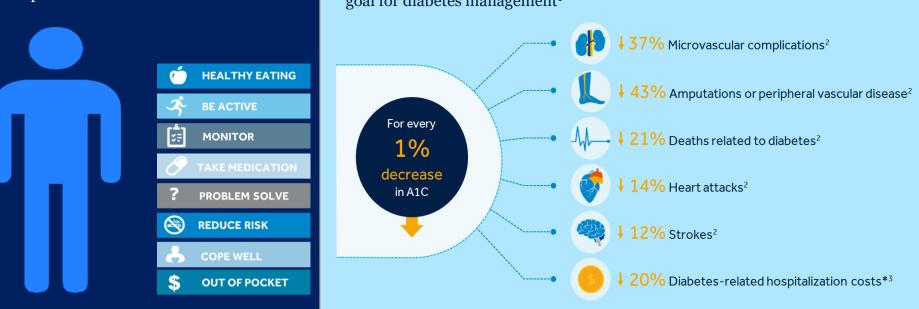
DIABETES MANAGEMENT IS COMPLEX & LARGELY RELIANT ON SELF-MOTIVATION

Self Management

>95 % of diabetes care comes from patients themselves⁴

A1C Target

is recognized by the ADA as a primary goal for diabetes management¹



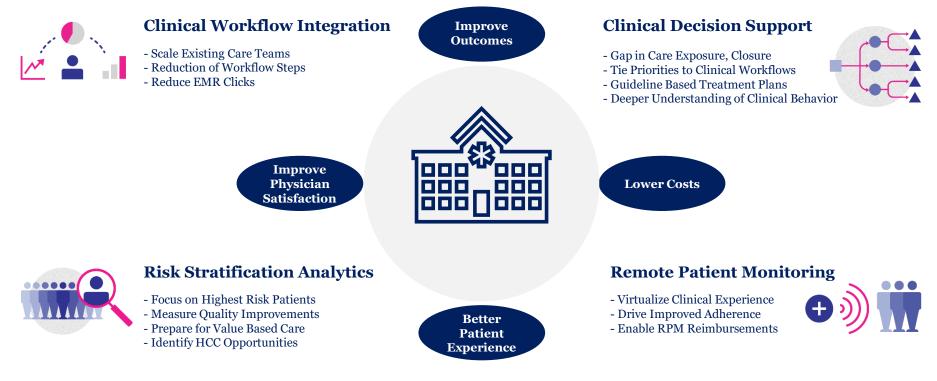
'Data are from a separate study" in which the impact of glycemic control on healthcare costs was investigated in a retrospective study of 0.887 patients with diabetes in the US ArtC=glycated hemoglobin; ADA=American Diabetes Association 1.ADA. Diabetes Care. 2016;39(Suppl 1):839–846. 2.Stratton IM, et al. BMJ. 2000;321(7258):405–12.

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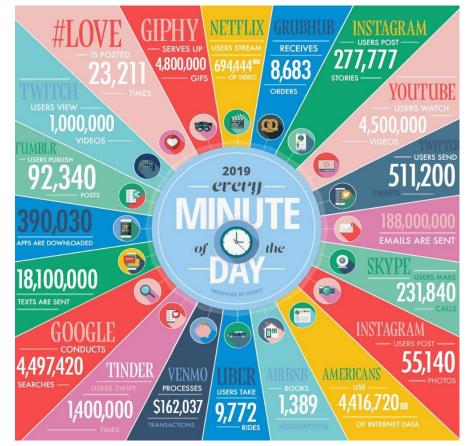
EXPANDING THE MEANING OF HEALTH AND HEALTHCARE



TREATING DIABETES CALLS FOR A HOLISTIC PROGRAM EXTENDING BEYOND INSTITUTIONAL WALLS



THE DATA PROBLEM





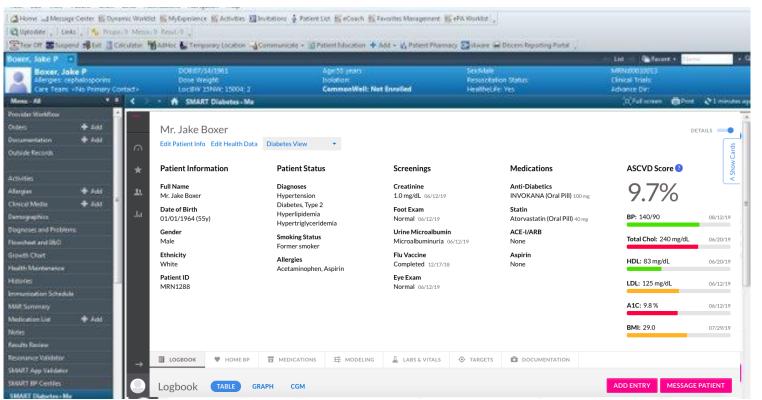
THE RIGHT INFORMATION AT THE RIGHT TIME



Healthcare Data Patient Outcome Critical Clinical Pearl officeguycartoons.com GUY DOWNES (C)

MEETING THE CLINICIAN AT THE POINT OF CARE IS VITAL



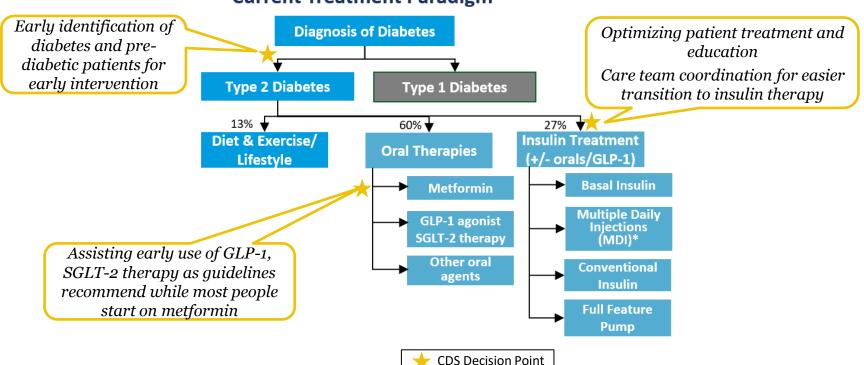


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IMPACTFUL YET SIMPLE CLINICAL DECISION SUPPORT INTERVENTIONS





Current Treatment Paradigm

SMALL CDS RULE, SIGNIFICANT IMPACT – 500 BED HOSPITAL



Assumptions	Values	Clinical Decision Suppor Comments
Number of Type 2 Diabetes Patients	21,000,000	- Total US prevalence of Type 2 diabetes ~ $21MM$
Х	Х	
% of Patients Treated with Insulin	27%	• Patients treated with insulin ~5.7MM
~	~	
T2D Insulin Patients at 500-bed hospital	3100	 Total US beds ~930,000 500-bed hospital approximately handles ~3100 type II diabetes patients on insulin therapies
Х	Х	
% Reduction in Progression (Due to CDS)	5%	• The number of patients treated with insulin who could have stayed on pharmacological management with a CDS support
Х	Х	Support
Cost Differential between Pharmacological vs Insulin Management	\$9,000	 Average annual cost of management ~\$17,000 (insulin-dependent) and ~\$8,000 (pre-insulin) Quality of life improved and risk of co-morbidities lowered for pharmacological treatment
=	=	
Total Annual Savings	\$1,400,000	Estimated Annual Cost Savings
File	L	

Source: Abbott Data on File

DECISION SUPPORT CARDS CONFIGURED TO CLINICAL NEEDS



	Mr. Jake Bo	xer							Cards ×
a	Edit Patient Info E	dit Health Data	Diabetes	View	•				
*	Patient Informa	tion		ent Status			enings		Optimizing CV Outcomes in Adult Patients with Type 2 Diabetes
- 22	Full Name Mr. Jake Boxer		Diagn Hyper	i oses rtriglyceriden	nia	Foot E Norma	al 06/12/19		
ла	Date of Birth 01/01/1964 (55y)		Hyperlipidemia Diabetes, Type 2 Hypertension		Creatinine 1.0 mg/dL 06/12/19			Both the American College of Cardiology Expert Consensus Decision Pathway and the American Diabetes Association Standards of Care are now recommending that comprehensive CV care in adults with established CV disease and Type 2 Diabetes	
	Gender Male		Smok	ing Status er smoker			al 06/12/19		should include treatment that has been proven to reduce the risk of fatal CV events. This patient meets the following criteria:
	Ethnicity White		Allergies Acetaminophen, Aspirin		Flu Vaccine Completed 12/17/18		3	1. Type 2 Diabetes 2. Atherosclerotic Cardiovascular Disease (ASCVD)	
	Patient ID		Urine Microalbumin			3. Adult			
	MRN1288					Micro	albuminuria	06/12/19	Please indicate your next step for this patient:
		• НОМЕ ВР	🖬 MEDI	ICATIONS	☆ MODELIN	G 🚡 L	ABS & VITALS	📀 ТА	Prescribe: Will prescribe according to guideline recommendation Later: Will review later No Action: No Action required
	Logbook	TABLE GR	APH	CGM					PRESCRIBE LATER NO ACTION
->	Data	Ear	rly		Breakfast			Lunch	
	Date	За	m	before	after	between	before	after	

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AUTOMATED, CONFIGURABLE RISK STRATIFICATION COHORTS AT-A-GLANCE

All Patients	*							
Patient Name ٨	Patient ID	Date of Birth (Age)	Wellbeing Score	A1c	Alerts	My Patients	Guide	HIDE 🔾
Abernathy, Aaron	MRN1031	1963-01-01 (56y)	65	7.8	0	*	1. Click on the patie view their details 2. Patient Alerts	
Boucher, Eliseo	MRN1166 (iGlucose #5079081) (Bodytrace Scale #864507033671347)	1946-01-01 (73y)	60	8.0		*	Hypoglycemi number of hypog within last 7 days	ic Alert: indicates lycemic measures Threshold for aler tient's Target scree
Boxer, Jake	MRN1288 (Bodytrace Scale #864507037519419)	1964-01-01 (55у)	50	9.8	•	*	Hyperglycem number of blood	ic Alert: indicates glucose measures within last 7 days.
Bryan, Tony	MRN1067	1939-01-01 (80y)	52	7.9	•	*	_	e: indicates weight ; nds in 1 day OR 3 o me week.
Burgos, Pasquale	MRN1284 (Bodytrace Scale #864507037600029)	1943-01-01 (76y)	51	7		*	3. You can add or re your list by findin Click the ★ to ad patient from your	g them in All Patier d or remove the
Casillas, Joan	MRN1286 (Bodytrace Scale #864507037556742)	1953-01-01 (66y)	64	7		*	4. You can add any p finding them in 1	patient to your list l



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IMPROVE THE OVERALL HEALTH OF THE POPULATION, BUT TREAT THE INDIVIDUAL



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Glucose Targets (mg/dL)					Quick Fill
Pre-meal Glucose	Post-meal Glu	ICOSE	Hypoglycemic	A1C	Guideline Goals
Low 80 High 13	30 Low 80	High 1	80 50	7.0	○ ADA
					○ AACE
Weight Targets					○ ACOG
BMI 24.9	Weight (Ib) 1	70			AGS Goals What's this?
					○ Healthy
Nutrition & Exercise Targe	ets				○ Complex
Exercise (min/wk)	Sodium Allow	ance (mg)			○ Very Complex
150	2300				Use one of these options to pre-fill values according to your chosen guidelines.
Blood Pressure Targets		Cholesterol Ta	argets		
Systolic Dias	tolic	LDL	HDL	Triglycerides	
140 90	D	100	50	150	
UPDATE TARGETS					

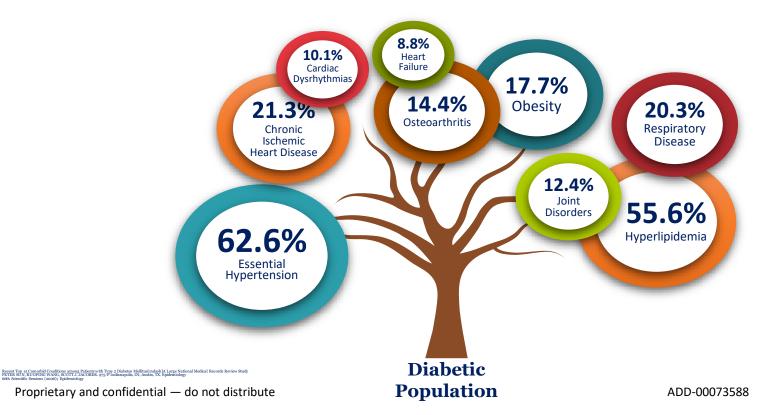
REMOTE PATIENT MONITORING (RPM) IN THE TIME OF COVID REQUIREMENTS



- Supports Multiple Disease States and Use-Cases
- Integrates Data from EMR and Variety of Connected Devices
- EMR Embeds Clinical Decision Support
- Synchronous and Asynchronous Population Communication
- Provide Self Management Education to Deliver Best Practices to Patients

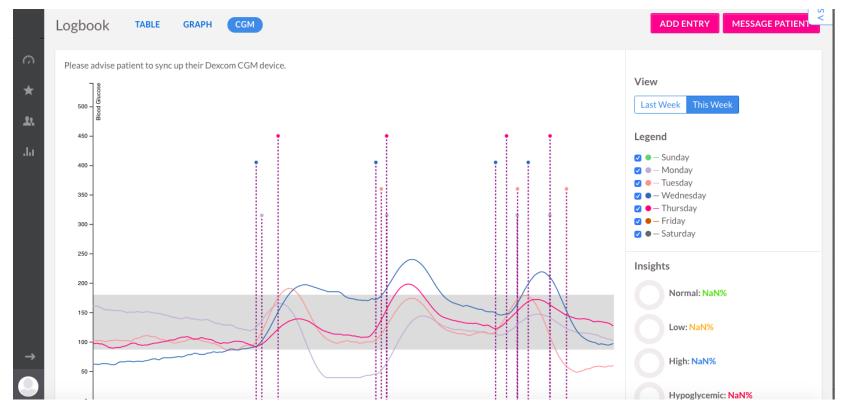


THE HYDRA OF CHRONIC DISEASE – Ren THE NEED FOR A COMPREHENSIVE SOLUTION



BRIDGING THE LAST DATA MILE





FAST, MEANINGFUL AND SECURE DIRECT PATIENT INTERACTION EMR INTEGRATED

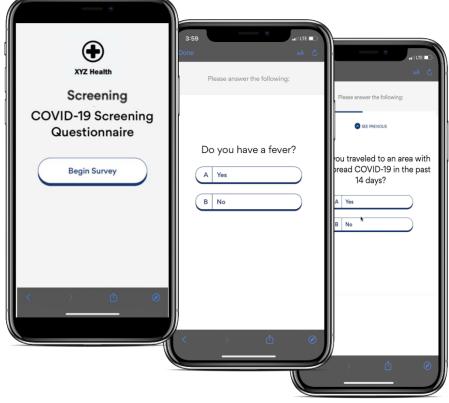


			2018 1.4			None	Message Patient		
						Statin Pravastatin (Oral Pill)	Improve patient outcomes by regularly encouraging progress. Select one or more messages to send.		
Ethnicity White						ACE-I/ARB Hydrochloro (Oral Pill) Aspirin BAYER ASPIRIN (Or	★ Logbook Your logbook is looking great. Keep it up.	Glucose Please log your glucose data.	
I LOGBOOK 冒 MEDICATIONS 群		* MODELING			TARGETS	Pill)	み Exercise Great job exercising this week!	Your weight is improving. Well don	
ogbook TAE	LE GRAPH	CGM					✤ Stress	👜 Custom Message	
Date	Early		Breakfast			Lunch			
	3am	before	after	between	before	after	if I can help.		
2019-02-06	0	•	•	0	•	•	SEND MESSAGE		
2019-02-05						•			

POPULATION COMMUNICATION AND SURVEILLANCE



Direct communication is key to engagement in a population health strategy



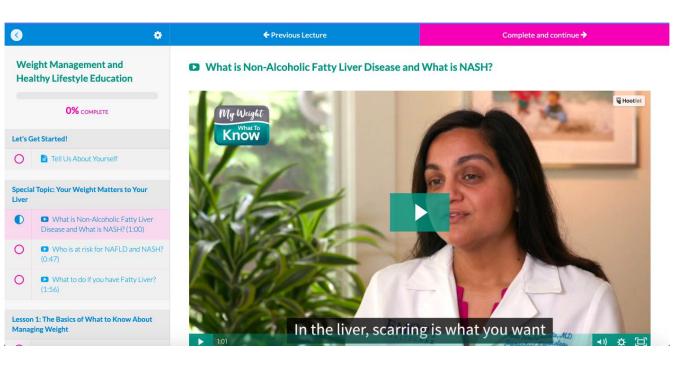
PUSH SELF MANAGEMENT EDUCATION





Welcome from Dr. Richard Jackson

Dr. Jackson is an endocrinologist. An endocrinologist is a doctor who specializes in endocrine or hormone disorders, like diabetes. Dr. Jackson has spent over 30 years working with people with diabetes and helping them manage their disease. Everyone tortax is lixing langer and having feaser.



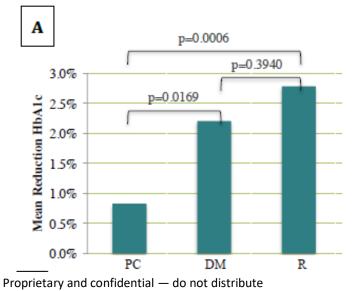
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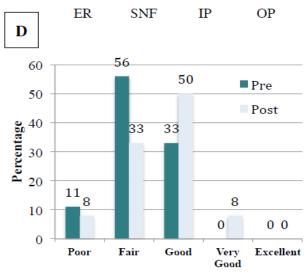
DIABETIC AND COVID REAL WORLD IMPACT



Diabetic Interventions

- **18,000+ Patients** successfully monitored by 250 physicians
- Implementation of the program achieved **significant reduction (2.8%) in HbA1c** in a short (12-week) period of time and lower total medical utilization.
- **Cost savings of \$12,700** were realized in the Program group compared to DM, representing fewer emergency room visits and skilled nursing facility stays.







REMOTE PATIENT MONITORING IN A COVID WORLD

COVID Pandemic Surveillance

- Results of Initial Survey
 - >10,000 responses in first days of implementation
 - 17% people with respiratory symptoms and symptomatic
 - 1 with known exposure
 - 54% with chronic conditions (DM, CVD, pulmonary dz)
 - 13% immunocompromised
 - 50% over 65 years old
 - 13% identified as candidates for testing and contacted
- Follow Up Survey Example
 - New or worsening symptoms: 8.8%
 - Difficulty accessing food: 7.5%
 - Suffering Anxiety, depression or loneliness: 22.6%
 - Desire a phone call: 18.5%

