

AMGA Foundation National Diabetes Campaign



Monthly Campaign Webinar February 21, 2019

Today's Webinar

- Together 2 Goal[®] Updates
 - Webinar Reminders
 - AMGA Annual Conference
 - New Campaign Partnership
 - 2019 Million Hearts[®] Hypertension Control Challenge
- Clinical Inertia and Diabetes Care
 - Daniel McCall, M.D., M.S.P.H. of Hattiesburg Clinic
- Q&A
 - Use Q&A or chat feature





Webinar Reminders

• Webinar will be recorded today and available the week of February 25th

www.Together2Goal.org

• Participants are encouraged to ask questions using the "Chat" and "Q&A" functions on the right side of your screen





2019 AMGA Annual Conference



March 27-30, 2019

National Harbor, MD

- New this year: AMGA will offer networking discussion groups by hot topic and by organizational type.
- Registration now open at amga.org/ac2019
- AMGA Foundation Celebration
 - Friday, March 29, 2019
 6:30 8:00 p.m. EST



Register by **Friday, March 8** for the next lowest rate



New Partnership: National Minority Cardiovascular Alliance



to view the survey.

2019 Million Hearts[®] Hypertension Control Challenge



- Health professionals, practices, and health systems that have achieved hypertension control rates of at least 80% are eligible to enter
- Submission deadline is April 1
- Visit <u>https://millionhearts.hhs.gov</u> for more information

The 2019 Million Hearts[®] Hypertension Control Challenge is now open!

Share your application by April 1.



Today's Featured Presenter



Daniel McCall, M.D., M.S.P.H.



Clinical Endocrinologist Associate Medical Director Medicare and Commercial ACO Programs Hattiesburg Clinic

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Clinical Inertia and Diabetes

DAN MCCALL MD MSPH

Clinical Inertia and Diabetes

- •Define clinical inertia
- •Review the major causes of clinical inertia
- •Review data detailing clinical inertia in diabetes care
- •Case study in overcoming clinical inertia hypertension control improvement at the Hattiesburg Clinic
- •Lessons learned how to avoid clinical inertia



Clinical Inertia – What is it?

Sir Isaac Newton's first two laws of physics:

A property of matter by which it continues in its' existing state of rest or uniform motion in a straight line, unless that state is changed by an external force.

Lawrence S. Phillips in 2001 defined Clinical Inertia:

- Failure of health care providers to initiate or intensify therapy
- Problem of the health care profession and the health care system
- Separate from patient related issues of adherence and access to care

Clinical Inertia Lawrence S. Phillips, MD; William T. Branch Jr., MD; Curtiss B. Cook, MD; Joyce P. Doyle, MD; Imad M. El-Kebbi, MD; Daniel L. Gallina, MD; Christopher D. Miller, MD; David C. Ziemer, MD; and Catherine S. Barnes, PhD Ann Intern Med. 2001;135:825-834

Clinical Inertia – What is it?

•Advances in clinical understanding take approximately 5-10 years to translate into clinical practice

•Strong evidence for effective treatment of diabetes, hypertension, and hyperlipidemia can prevent or delay microvascular and macrovascular disease complications

•Management goals and effective therapies are well defined and available

•Healthcare providers often do not initiate or intensify therapy

Clinical Inertia Lawrence S. Phillips, MD, et. al Ann Intern Med. 2001;135:825-834

Three Major Causes of Clinical Inertia

- •Overestimation of care provided and adherence to care guidelines
- •Use of "soft" reasons to avoid intensification of therapy
 - Care "improving" despite time to achieve steady state
 - Delaying pharmacologic therapy due to "dietary nonadherence"
- •Lack of education, training, and practice organization focused on achieving therapeutic goals
 - Prover lack of knowledge in need for dose escalation or need for multiple medications to achieve therapeutic goals

Clinical Inertia in Type 2 Diabetes: Impact of Diabetes

Prevalence

• 30.3 million (9.4% population) in the US with diabetes

Morbidity

- Leading cause of vision loss, kidney failure, limb amputation
- 2x Heart disease and stroke risk events occur at earlier age

Mortality

7th Leading Cause of death although more recent data although more recent data suggest 3rd behind heart disease and malignancy

Cost

- \$327 billion total cost in US in 2017
- Over 1 in every 4 healthcare dollars spent in US caring for people with diabetes
- Average medical expenditures 2.3 times higher than those without diabetes

American Diabetes Association http://www.diabetes.org/diabetes-basics/statistics/

Clinical Inertia in Type 2 Diabetes: Evidence and Clinical Guidelines

Evidence for intensive glycemic control:

United Kingdom Prospective Diabetes Study (1998)¹

A1c 7% intensive group vs 7.9% conventional therapy

25% reduction in microvascular complications

Clinical Guidelines:

American Diabetes Association – Standards of Medical Care in Diabetes – 2019 Care Recommendations:

A reasonable A1C goal for many nonpregnant adults is <7%. Providers might reasonably suggest more stringent A1C goals (such as <6.5%) for selected individual patients if this can be achieved without significant hypoglycemia or other adverse effects of treatment (i.e., polypharmacy). Appropriate patients might include those with short duration of diabetes, type 2 diabetes treated with lifestyle or metformin only, long life expectancy, or no significant cardiovascular disease.²

¹Lancet 1998 Sep 12;352(9131):837-5 ²Diabetes Care January 01 2019; volume 42 issue Supplement 1

Clinical Inertia in Type 2 Diabetes: Clinical Guidelines

ADA – Standards of Medical Care in Diabetes - 2019:



HbA, above target des dual/triple therapy int if HEA, HEE annot/mul (10%) and/s INITIATION FOR GLP-1 RA Initiate starting does traines across class) Consider GLP-1 RA in most prior to insultri Faiready on GLP-1 BA or F GLP-1 BA not appropriate OR Insults preferred Consider - INITIATION - TITRATION TITEATION FOR GLP 1 BA BA, very high HSP manhous (TIN) Gradual Utration to mainla dose (varies across class) If above HbA, target INITIATION FOR BASAL Start 10 IU a day GR 01-03 K/leg a day INITIATION For patient on GLP-1 RA and of GLP-1 RA use TITEATION FOR BASAL basal Insulis 10-16 does steps (DegLin or 10-15 units (DiarLin) Add basal Insultr coulder FBC of G. P.1 PA and Patient self stration is more affective Consider + INITIATION + TITEATION Insulin (DegLine or (GlarLin)) Set FPG begat that correlates to 1844, begat But note max dose of insulin in Choose evidence based this algorithm, e.g. morese 2 or many 3 days to mach FrG target without hypegippenia the FRCs TITEATION Titrate to FPG target and tolerability For hypoglycemia determine cause, if no clear reason linear clear in 10-20% above H If above HbA, target INITIATION FOR PRANDU spite adequately titrated basal insulin OB on basal dose >0.7-1.0 LU/kp OR FPG at target · A R/a day or TDL of head day F16A, 164 m consider lowering the total of by 4.U a day or KIN of benaft INITIATION TITEATION FOR PRANDS o insulto maine patient o-12 tu or 0.3 tu/bp Increase does by 1-2 IU or IO-IDN being weekly For adding insult and INITIATION . TITRATION qually unit to unit at the For hypoglycemia determine cause. If no clear nesson lower corresponding dose by 10-207 Consider twice or three times dely premis insults may require adjustment to individual needs If above HbA, target INITIATION OF STEPHISE PEANDIAL PRANCHAL Stepwise addition of prendal impline very 3 months if HDA, larged is associated with treases potent acceleration compared with immediate introduction of full beachings and pren TITRATION Individual dose adjustmen depends on type of loghasic meutin Steparties additional intertions of scandial locals More complex if on three times dely regimen Ca, two, then three additional injections) Consider - INITIATION - TITRATION TITEATION FOR PRANDUA If above HbA, target INITIATION FOR PRANDIAL TITRATION FOR PRANDIAL

1. When selecting 627-188, consider patient preference, MA, treasing weight investing effect, or her

Diabetes Care January 01 2019; volume 42 issue Supplement 1

Clinical Inertia in Type 2 Diabetes: Glycemic Control Trends in the US 1999-2014



Clinical Inertia in Type 2 Diabetes: Glycemic Control Trends in the US 1999-2014



Clinical Inertia in Type 2 Diabetes: Treatment Intensification in Uncontrolled Patients

Retrospective cohort study of 11,525 adult patients with Type 2 diabetes in US insurance claims database

A1c \geq 8% after \geq 3 months of therapy including metformin with mean A1c 9.1%

- 37% patients had their treatment intensified <6 months
- 11% patients had their treatment intensified 6-12 months
- 52% patients did not have their treatment intensified <12 months

Fu, A. Z. and Sheehan, J. J. (2016), Treatment intensification for patients with type 2 diabetes and poor glycaemic control. Diabetes Obes Metab, 18: 892-898.

HATTIESBURG CLINIC



- Established in 1963 by 10 physicians and has since grown to one of the largest physician-owned multi-specialty clinics in the Southeast U.S.
 - 455 providers (285 physicians and 170 mid-level providers)
 - 50 specialties
 - 72 locations Service a market area of approximately 525K patients
 - Over 871,000 outpatient visits in 2018, excluding dialysis
- Epic EMR since 2011











Reducing average population systolic blood pressure by only 12–13 mmHg could reduce:





The Good News ...

Association of systolic blood pressure with macrovascular and microvascular complications of type 2 diabetes (UKPDS 36): prospective observational study

BMJ 2000; 321

For every 10 mm Hg reduction in SBP:

12% Decrease in any end point related to diabetes

15% Reduction in risk of death related to diabetes

11% Decrease in MI

13% Decrease in microvascular complications



100% 90% 80% 71% 70% 60% 50% 40% 30% Measure Up Pressure Down^o 20% 10% 0%

Proportion of Patients with HTN whose Blood Pressure is in Control (140/90)





Standardized Blood Pressure Measurement Process



Standardized blood pressure measurement process

D (4.4	5/31/2016 visit with Hbc	A.C.	(+ +	5/31/2016 visit with Hbo
Before:	SnapShot	Images MReference	After:	SnapShot	Timages 🚮 Reference
	Chart Review	CHARTING		Chart Review	CHARTING
	Review Flows	Visit Info		Review Flows	Visit Info
	Results Review	Vital Signs		Results Review	Allergies
	Synopsis	Allergies		Synopsis	Verify Rx Benefits
	Chicken	Verify Rx Benefits			Medications
	Medications	Medications		Medications	Hearing/Vision
	Immunizations	Hearing/Vision		Immunizations	History
		History			Vital Signs
	Order Entry	Goals		Order Entry	Goals
	MAR	Progress Notes		MAR	Progress Notes
	Enter/Edit Res	ORDERS		Enter/Edit Res	ORDERS
	Communicatio	BestPractice		Communicatio	BestPractice
	Communicatio	SmartSets			SmartSets
	Visit Navigator	Visit Diagnoses		Visit Navigator	Visit Diagnoses
		Meds & Orders			Meds & Orders

Provider specific blood pressure management dashboards

Hypertension , MD			
	Jun	Jul	Aug
> Blood Pressure Control	54	56	56
> Blood Pressure Measurement	96	96	96
> Monitoring of Persistent Medications	84	86	86

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dications – I	monoth	erapy options					
		Drug Name (qd unless otherwise noted)	Starting Dose (mg)	Maximum Dose (mg)	Notes		
or ARB		Lisinopril (<u>Prinivil,</u> Zestril)*	10 - 20	40 bid	Start at 10 mg for elderly and CK		
vays use in patien pardless of ethnic		Benazepril (Lotensin)*	10 - 20	40 bid	patients		
ntraindicated) onitor K and creat		Losartan (Cozoor)	50	100	Lowers uric acid		
eks after starting any thereafter	and at least	Valsartan (Diovon)	80	320			
zide Diuretic Ionitor K and creatinine with al Juretics (se cautiously in patients with evere gout, hypercalce mia, or		Chlorthalidone (Thalitone)	25	25	Can cut into half tablet for 12. mg		
		Hydrochlorothiazide(HC72)*	12.5	25	Shorter half-life than Chlorthalidone		
ontinence	alcema, or	Independe (Lozol, Lozide)*	1.25	2.5	For patients with significant glycemic issues		
m Channel Blocker itor for edema, which is		Amlodipine (Norvasc)	2.5 - 5	10	Do not use Simvastatin with CCB		
rally less when u so with ACEI/AR	used in	Felodipine (Plendil)	2.5 - 5	10	Do not use annvastatin With CLB		
If BP is not	t controll	ed on a <u>compliant</u> combinatio	on of all 3 a	irug classes o	above, add a fourth agent		
selectivebet		Carvedilol (Coreg)*	6.25 bid	25 bid			
not use if patier other rate-limiti		Labetalol (Trandate)	100 bid	800 <u>tid</u>	Watch for bradycardia, wheezing		
If BP is no	ot control	led on a <u>compliant</u> combinati	on of all 4	drug classes	above, add a fifth agent		
sterone Antagonist nd creatinine must be nitored regularly(3-4 res/year even if normal)		Spironolactone (Aldoctone)*	25	100	Warn about gynecomastia		
		Eplerenone (Inspra)	25	50	If gynecomastia present		
bination Th							
	(9	Drug Name d unless otherwise noted)	Starting Dose (mg)	Maximum Dose (mg)	Notes		
	Amlodi	pine/ Benazepril (Lotrel)	2.5/10	10/40	5/10, 5/20, 5/40, & 10/20 also		
bination ts may be as first-line	Enalapr	il/HCTZ (Voseretic)*	5/12.5	20/25	Enalapril max dose 40mg		
	Lisinop	ril/HCTZ(<i>Prinzide, Zestoretic</i>)*	20/12.5	20/25	May use two 10/12.5		
	Losarta	n/HCTZ (Hyzaar)	50/12.5	100/25	100/12.5 also available		
ipy	Valsarta	n/HCTZ (DiovanHCT)	80/12.5	320/25	160/12.5, 160/25, & 320/12.5		
	Amindi	pine/Valsartan (Exforge)	5/80	5/160	May use two 5/160		



CLOSE THE GAPS HYPERTENSION



74%

Results ?

of patients who were found to have an elevated blood pressure in a nontreating provider's office were scheduled an appointment with a treating provider within 4 weeks

> Improvement in blood pressure control rate:

> > 2%

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All primary care providers have been given their "BP audits"

Data provided:

- MRNs and visit dates where BP high
- •Overall control rate %
- Rank among all PCPs
- Meds changed when BP high %
- •F/U scheduled within 4 wks %
- •Number of meds prescribed
- •Number of maxed out meds prescribed

Findings:

Control rate ranged from 42.6% to 74.6% Higher performing providers were:

- 3x more likely to titrate meds when BP was high
- •4x more likely to schedule f/u within 4 wks when BP was high
- More likely to use more meds (2.7 vs 2.1)

	Age	Date	SBP	DBP	Med	Other	1 mon		# max'd	
RN		Date			∆?	∆?	f/u?	meds	BP meds	Comments
	80	6/30/2017	166	95	No	No	No	4	1	Cough
		4/25/2017	157	75	No	No	No			Back pain
	_	3/27/2017	160	88	No	No	Yes			
	45	6/30/2017	140	88	Yes	No	No	3	1	
		3/31/2017	145	89	Yes	Yes	No			
		12/16/2016	150	98	No	Yes	Yes			
	34	6/30/2017		101	Yes	No	Yes	1	0	
		12/22/2016		97	No	Yes	Yes			
		6/17/2016	130	96	No	No	No			
	69	6/30/2017	153	79	No	No	Yes	3	1	
		6/9/2017	146	73	No	No	No			
		5/22/2017	129	72						
	64	6/30/2017	143	74	No	Yes	No	3	3	
		6/16/2017	133	67						
		9/23/2016	123	75						
	52	6/30/2017	152	92	Yes	No	Yes	2	1	
		4/27/2017	151	104	No	No	No			Allergic rhinitis
		3/24/2017	144	98	Yes	No	No			
	70	6/30/2017	140	66	No	No	No	0	0	HTN visit code - no HTN meds
		1/31/2017	132	79						
		6/9/2016	110	70						
	32	6/30/2017	136	92	No	No	No	0	0	
		4/7/2017	135	99	No	No	No			
	1	1/13/2017	140	94	No	No	No			URI
	31	6/29/2017	149	87	No	No	No			ADD - BP elevated with no HTN dx
		11/2/2016	134	86						
	1	8/2/2016	126	80						
	63	6/29/2017	148	69	No	Yes	No	2	1	
		1/3/2017	165	72	Yes	Yes	Yes			
	1	12/20/2016	156	80	No	No	Yes			
	57	6/29/2017	165	92	Yes	No	Yes	3	0	
		4/4/2016	168	94	No	Yes	Yes			
	1	12/17/2015	136	82						
	71	6/29/2017	146	83	No	No	No	3	2	"controlled at home"
		3/20/2017	165	89	No	No	Yes			Back pain
		3/20/2017	165	89	No	No	No			
	64	6/29/2017	142	85	No	Yes	No	1	1	
		2/2/2017	151	82	No	No	No			
		12/22/2016	155	97	Yes	Yes	Yes			
	47	6/29/2017	129	95	No	No	No	1	0	
	-	5/30/2017		101	Yes	Yes	Yes			HTN diagnosed at this visit
	1	4/24/2017	155	104	No	Yes	Yes			No prior HTN dx
	61	6/29/2017	151	90	Yes	Yes	Yes	2	0	
		4/1/2016		90	Yes	Yes	Yes			
		6/4/2015		98	Yes	Yes	Yes			
chan	ed whe	en BP high:	12 of 3	37 (32.	4%)			2.0	0.8	

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Results ?

74%

of patients who were found to have an elevated blood pressure is an a non-treating provider's office were scheduled an appointment with a treating provider within 4 weeks

> Improvement in blood pressure ont orra

Lessons Learned - How to Avoid Clinical Inertia

Provider education – guidelines are necessary but not sufficient

- Education on benefits, costs, and side effects of treating to target
- Address the complexity of treating to target for different disorders (glycemic control, hypertension, and dyslipidemia)

Structure our care delivery systems to facilitate management of chronic diseases

- Utilize electronic medical record systems, best practice advisories, flowsheets, and disease registries
- Expand the care team
- Active outreach and planned visits to increase opportunities for "titratable moments"

Provide performance feedback

- Dashboards and audits timely and specific
- Chart review with face-to-face peer feedback

Clinical Inertia Lawrence S. Phillips, MD, et. al Ann Intern Med. 2001;135:825-834

March Webinar

- Date/Time: March 21, 2019 from 2-3pm Eastern
- **Topic**: Overcoming Barriers to Diabetes Self-Management Education (DSME) Referrals
- Presenters:
 - Jodi Lavin-Tompkins, M.S.N., R.N., CDE, BC-ADM (American Association of Diabetes Educators)
 - Valerie Spier, M.P.H., R.D., CDE (Sutter Health)





Questions



