

SURVEY OF PHYSICIANS' PERSPECTIVES ON DEINTENSIFYING DIABETES MEDICATIONS

Survey ID: **0000** Password: [redacted]

This is a survey designed by physician researchers at the Johns Hopkins School of Medicine. The survey will take approximately 10 minutes. <u>There is a \$10 Amazon gift card included</u> to thank you for your time.

We want to learn how physicians like you make decisions about deintensifying diabetes medications for older adults (aged 65 years or older) with type 2 diabetes. Deintensifying (also called deprescribing) is defined as stopping a medication, reducing the dose, or switching to an alternative medication with a better risk/benefit profile.

This survey is confidential and your individual responses will not be identifiable. Your information will only be seen by researchers at Johns Hopkins. There are no foreseeable risks or direct benefits associated with this research. Completion of this survey is entirely voluntary and will serve as your consent to take part in this research study. This study is approved by the Institutional Review Board of the Johns Hopkins University School of Medicine.

Please return the completed survey in the enclosed stamped return envelope. Alternatively, you can take this survey online by going to: www.surveydiabetes.com or scanning the QR code to the right, and entering the Password and Survey ID above.

Thank you very much for your participation in this important study. Please contact me directly with any questions.

QR Code – links to online survey



Sincerely,

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Study No. IRB00273367

Fligibility Questions

Eligibility Questions
1. Have you completed training and are practicing medicine independently (e.g. not a resident or fellow)? ☐ Yes
\square No \rightarrow If No, you are <u>not eligible</u> . Please stop here and return the survey in the stamped return envelope.
2. In your practice, do you see older adults (aged \geq 65 years) with type 2 diabetes in the outpatient setting?
□ Yes
\square No \rightarrow If No, you are <u>not eligible</u> . Please stop here and return the survey in the stamped return envelope.
3. What is your primary clinical specialty?
□ Internal Medicine
☐ Family Medicine / General Practice
☐ Medicine-Pediatrics
□ Geriatrics
□ Endocrinology
☐ Other specialty → If other specialty, you are <u>not eligible</u> . Please stop here and return the survey in the stamped return envelope.
Please continue to the next page to start the survey \rightarrow

PART 1. Clinical Scenarios

We will describe 3 clinical scenarios. We will ask what changes you would make, if any, to the patient's diabetes medications if you were the physician managing the patient's diabetes. There is no right or wrong answer, please answer based on your clinical judgment.

Scenario #1. Mrs. C is a 79 year old woman who has type 2 diabetes, hypertension, and GERD. She lives independently and exercises daily. Her hemoglobin A1c (HbA1c) today is 6.3%. Her diabetes medications are the maximum dose of metformin and an intermediate dose of glimepiride (a sulfonylurea). She takes 3 medications for conditions other than diabetes.

For each row, please mark the one action that you would take for Mrs. C's glimepiride.

For each row, please mark the one action that you v	vould take i								
	Your recommendation								
Situation	Make no changes	Increase glimepiride dose	Decrease glimepiride dose	Stop glimepiride	Switch glimepiride to another diabetes medication class				
Mrs. C reports no recent hypoglycemia and no medication concerns									
Mrs. C reports no recent hypoglycemia, and expresses a desire to take less medications									
Mrs. C reports no recent hypoglycemia, and expresses a desire to keep her blood sugar tightly controlled									
In the past month, Mrs. C had 3 episodes of hypoglycemia with mild symptoms and glucose readings of 55 to 65 mg/dl									
In the past month, Mrs. C had 1 episode of hypoglycemia causing confusion requiring her family member to assist her									
In the past month, Mrs. C had 1 episode of hypoglycemia causing somnolence resulting in an emergency department visit									
For the following rows, we're going to change some details about Mrs. C's history. Assume the rest of the scenario is the same, and that Mrs. C reports no recent hypoglycemia or medication concerns.									
If Mrs. C was 90 years old									
If Mrs. C was taking more than 10 medications									
If Mrs. C was recently diagnosed with metastatic breast cancer									
If Mrs. C could not afford another class of diabetes medication					N/A				

If in any of the above situations you chose to switch glimepiride to another diabetes medication class, which medication class would you switch to? (please select your <u>one first choice</u>)

\square Not applicable because I did not choose to switch glimepiride
☐ Thiazolidinedione (such as pioglitazone / Actos®)
□ DPP-4 inhibitor (such as sitagliptin / Januvia®)
☐ GLP-1 receptor agonist (such as liraglutide / Victoza®)
☐ SGLT-2 inhibitor (such as empagliflozin / Jardiance®)
☐ Long-acting insulin (such as glargine / Lantus®)
☐ Other diabetes medication class
□ Don't know

Scenario #2. Mr. P is a 77 year old man who has type 2 diabetes, coronary artery disease with a prior myocardial infarction, chronic kidney disease stage 4 (serum creatinine 2.2, eGFR 34), and osteoarthritis which impairs his mobility. He lives with his daughter who helps him with housework, shopping, and transportation. His HbA1c today is 7.3%. His only diabetes medication is insulin glargine (long-acting insulin) 30 units nightly; he does not take metformin because of low kidney function. He takes 6 medications for conditions other than diabetes.

	Your recommendation							
Situation	Make no changes	Increase glargine dose	Decrease glargine dose	Stop glargine	Stop or decrease glargine and add another diabetes medication class			
Mr. P reports no recent hypoglycemia and no medication concerns								
Mr. P reports no recent hypoglycemia, and expresses a desire to take less medications								
Mr. P reports no recent hypoglycemia, and expresses a desire to get his blood sugar under better control								
In the past month, Mr. P had 3 episodes of hypoglycemia with mild symptoms and glucose readings of 55 to 65 mg/dl								
In the past month, Mr. P had 1 episode of hypoglycemia causing confusion requiring his family member to assist him								
In the past month, Mr. P had 1 episode of hypoglycemia causing somnolence resulting in an emergency department visit								
For the following rows, we're going to change the same, and that Mr. P reports no recent hyp				sume the res	t of the scenario is			
If Mr. P was 90 years old								
If Mr. P was taking more than 10 medications								
If Mr. P had worsening kidney function and started hemodialysis								
If Mr. P could not afford another class of diabetes medication					N/A			

which medication class would you add? (please select your one first choice) □ Not applicable because I did not choose to switch glargine ☐ Thiazolidinedione (such as pioglitazone / Actos®) ☐ Sulfonylurea (such as glipizide / Glucotrol®) ☐ DPP-4 inhibitor (such as sitagliptin / Januvia®)

☐ GLP-1 receptor agonist (such as liraglutide / Victoza®) ☐ SGLT-2 inhibitor (such as empagliflozin / Jardiance®)

☐ Other diabetes medication class

□ Don't know

Scenario #3. Mrs. R is a 78 year old woman with type 2 diabetes and advanced Alzheimer's dementia. She lives with her husband who is her primary caregiver and provides assistance with bathing, dressing, household tasks, and manages her medications. She is able to eat a consistent diet and her weight has been stable. Her HbA1c today is 7.7%. Her diabetes medications are the maximum dose of metformin and an intermediate dose of glipizide (a sulfonylurea). She takes 3 medications for conditions other than diabetes.

For each row, please mark the one action that you would take for Mrs. R's glipizide.

	Your recommendation								
Situation	Make no changes	Increase glipizide dose	Decrease glipizide dose	Stop glipizide	Switch glipizide to another diabetes medication class				
Mrs. R and her husband report no recent hypoglycemia and no medication concerns									
Mrs. R and her husband report no recent hypoglycemia, and express a desire for her to take less medications									
Mrs. R and her husband report no recent hypoglycemia, and express a desire to get her blood sugar under better control									
In the past month, Mrs. R had 3 episodes of hypoglycemia with mild symptoms and glucose readings of 55 to 65 mg/dl									
In the past month, Mrs. R had 1 episode of hypoglycemia causing confusion requiring her family member to assist her									
In the past month, Mrs. R had 1 episode of hypoglycemia causing somnolence resulting in an emergency department visit									
For the following rows, we're going to change some details about Mrs. R's history. Assume the rest of the scenario is the same, and that Mrs. R and her husband report no recent hypoglycemia or medication concerns.									
If Mrs. R was 90 years old									
If Mrs. R was taking more than 10 medications									
If Mrs. R initiated home hospice care for progressive cognitive decline									
If Mrs. R could not afford another class of diabetes medication					N/A				

If in any of the above situations you chose to switch glipizide to another diabetes medication class, which medication class would you switch to? (please select your one first choice)

□ Not applicable because I did not choose to switch glipizide
□ Thiazolidinedione (such as pioglitazone / Actos®)
□ DPP-4 inhibitor (such as sitagliptin / Januvia®)
□ GLP-1 receptor agonist (such as liraglutide / Victoza®)
□ SGLT-2 inhibitor (such as empagliflozin / Jardiance®)
□ Long-acting insulin (such as glargine / Lantus®)

□ Don't know

☐ Other diabetes medication class

7. For the following types of community-dwelling older adults with type 2 diabetes, what HbA1c target do you typically recommend in your practice?

typically recommend in your practice?									
	Your recommended HbA1c target								
Description of adult aged ≥65 years with type 2 diabetes	<6.5%	<7.0%	<7.5%	<8.0%	<8.5%	<9.0%	No specific target	Don't know	
<u>Healthy:</u> few coexisting conditions, intact cognition, fully functional									
Complex health status: multiple coexisting chronic illnesses, impaired instrumental activities of daily living, and/or mild-to-moderate cognitive impairment									
Very complex or poor health status: end-stage chronic illness, impaired activities of daily living, or moderate-to-severe cognitive impairment									
PART 3. Information About You 8. What is your gender?									
\square Male \square Female \square Other:			_						

		end-stage chronic								
lness, impaired ac	•									
noderate-to-severe	cognitive impair	ment								
	mation About	You								
8. What is your	gender?									
□ Male	□ Female	□ Other:			_					
9. What is your	ethnicity?									
□ Not Hispa	anic or Latino	☐ Hispanic or L	atino							
1 Not Inspaine of Latino										
10. What is you	ur race? (select	all that apply)								
•	Indian or Alask		□ Asia	an		Black or	r African	America	ın	
		Pacific Islander	□ Wh							
□ Nauve Ha	iwanan of Other	racific Islander	□ WII	ne		Other				
11. What is you	ır aga?		Vearc							
11. What is you	in age:		years	•						
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12. How many	years has it bee	ii siiice you gradu	ateu resid	deficy?	_			years		
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□ <15	□ 15-19	□ 20-24	□ 25-29) [□ 30-34		35-39	□ 4	0+	
44 ***** 1 1				0						
	-	ches your primary	y practice	e?						
☐ Private so	lo or group prac	etice								
□ Practice o	r outpatient dep	artment affiliated	with hos	pital or la	arge healt	th entity				
□ Health ma	aintenance orgai	nization or other p	repaid p	- ractice (e	.g Kaise	r Permar	nente)			
	_	clinic (e.g., state,		,	.8., 12018					
	-	, -	-	•						
• 1	`	cluding Planned l		· ·						
☐ Federal government operated clinic (e.g., VA, military, etc.)										
□ Communi	ity health center	(e.g., Federally Q	ualified	Health C	enter)					
15. In what typ	e of setting is yo	our primary practi	ce locate	ed?						
□ Urban	□ Sub	urban	□ Rural							
16. In general,	what is the insu	rance breakdown	of your p	oatients?						
	% Private insura	nce								
	% Medicare									
% Medicaid, Medicaid/Medicare dual eligible, or other state-based program										
	% Uninsured or					•	=			

END OF SURVEY - Please return the survey in the stamped return envelope. Thank you!