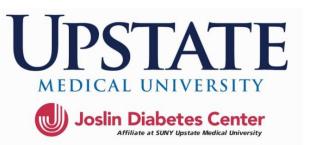
SDOH Screening and Initiatives to Address Food Insecurity in Adults with Diabetes





Initial SDOH Screening Project Timeline/PDSA Cycles

- PDSA #1- Initial pilot program began (Aug 2021): Two clinicians (1 in-person visits/ 1 telemedicine visits). 8 questions/ 4 domains (food, housing, transportation insecurities, and general financial strain)
- PDSA #2- Rolled out to entire clinic (Oct 2021)
- PDSA #3 (Dec 2021) Implemented a BPA for those that screened positive for at least one domain → Referral to social worker.
- PDSA #4 Oct 2022 Created a paper form to answer questions instead of LPN verbally asking questions during rooming

Used 8 SDOH Screening Questions Available in Epic

Please circle the best option. Please let staff know if you need assistance.

Transportation Needs

In the past 12 months, has lack of transportation kept you from medical appointments or from getting medications?

Yes No Patient Declined

In the past 12 months, has lack of transportation kept you from meetings, work, or from getting things needed for daily living?

Yes	No	Patient Declined
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HealthWatch Housing Screener

In the last 12 months, was there a time when you were not able to pay the mortgage or rent on time?

Yes	No	Patient Declined
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In the last 12 months, how many places have you lived?

In the last 12 months, was there a time when you did not have a steady place to sleep or slept in a shelter?

Yes No Patient D	eclined
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Food Insecurity

Within the past 12 months, you worried that your food would run out before you got the money to buy more?

Never True Sometimes True Often True Patient Declined

Within the past 12 months, the food you bought just didn't last and you didn't have money to get more?

Never True	Sometimes True	Often True	Patient Declined
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Financial Resource Strain

How hard is it for you to pay for the very basics like food, housing, medical care, and heating?

Very Hard Ha	ard Somewhat hard	Not very hard	Not hard at all	Patient Declined
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Medication Financial Assistance

How often in the past year have you not taken your medications because of cost?

Please check here if you'd like to talk in private:

NOTE: Medication Financial Assistance question was used to refer to our pharmacy program that provides low cost or free medications to eligible patients; results not included in analyses.

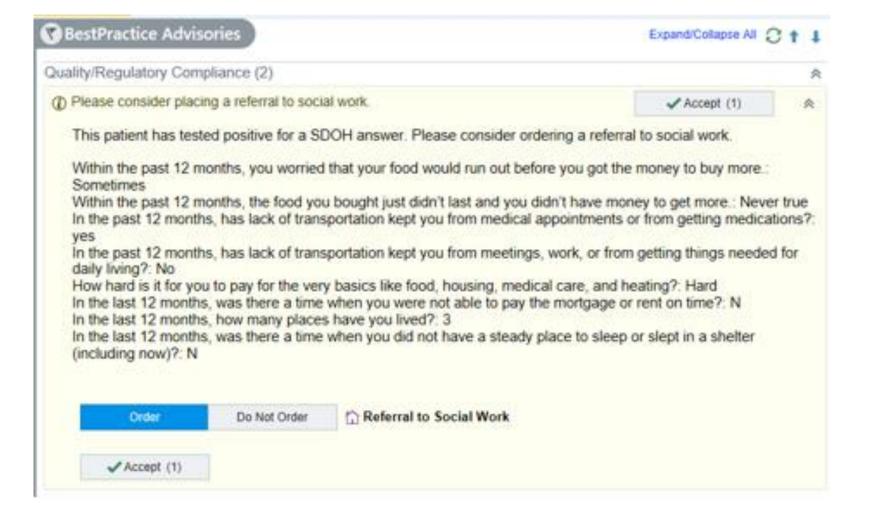
Process Map staff provides Joslin (thru December 2023) SDOH questions to Does the LPN records patient have Patients will give answers into Epic LPNs documents No Social any positive the Joslin SDOH OR questions No→ Work Transportation, **SDOH** questions to the were previously Referral Food, Financial, and responses? LPNs answered in Medical Assistances MYCHART at check-in or were Yes answered in MyChart LPNs will ask: "Would you LPN documents Does the Does the No patient give screening and Provider discuss accept SW No Social consent to talk No SW declined by after Work with social screening with talking to Referral work? patient further provider declining SW. Yes 🗸 Yes Provider documents that LPNs document positive SW was accepted by screening and accepts SW In-Person Visits Only: LPN will IM social work to see if they In-Person Visits Only: LPN will IM social work to see if they can see patient before can see patient before Send Social Send Social Work Work Referral Referral

Change in process (starting January 2024)



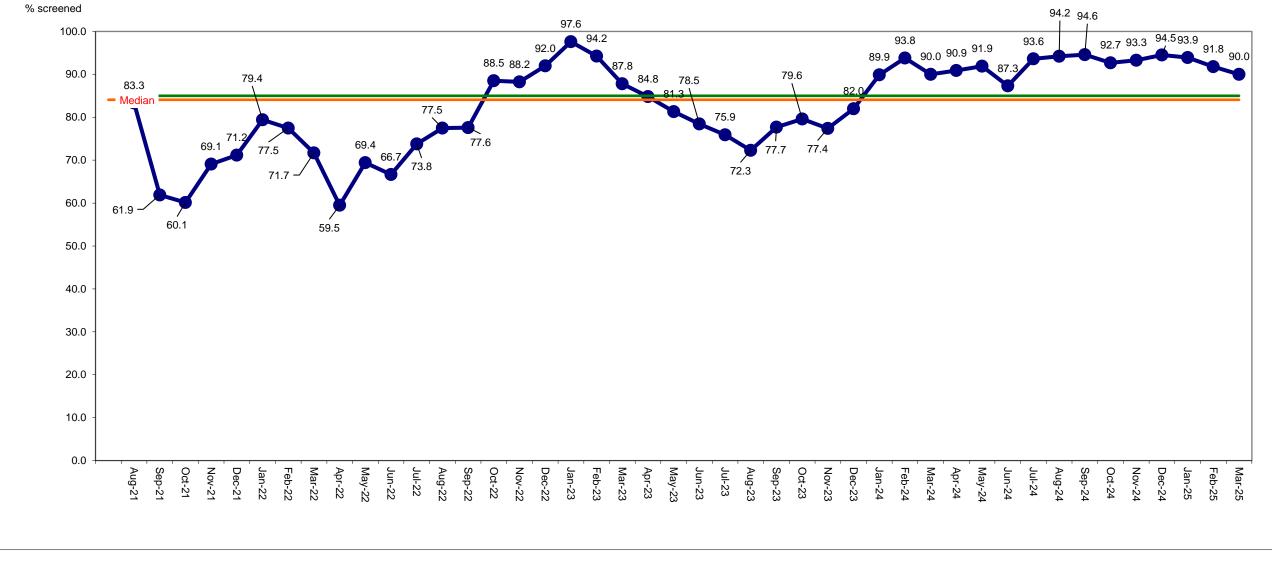
LPNs: 'Is it ok for someone to talk to you about available resources?'

- Social Worker discusses resources. If unavailable:
- Food Insecurity: RD float discusses resources including food pantry
- Transportation: Clerical staff provides assistance.
- Other needs: social worker contacts via phone post visit.



Patient declined to answer Social Determinants of	f Health questions
Positive SDOH screening, social work referral ma	de, provider notified via Qliq/Vocera/in-person
Positive SDOH screening, social work referral de	clined by patient, provider notified via Qliq/Vocera/in-person
Reason patient declined referral - The situation is	temporary
Reason patient declined referral - Already receiving	ng Resources elsewhere
Reason patient declined referral - Too personal	

% Screened, of those with Type 1 Diabetes, for SDOH



Mar-23	Apr-23	May- 23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May- 24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
•	313/36 9										347/37 0									294/31 5		384/40 9	348/37 9	370/41 1

Lessons Learned

- More patients report insecurities when SDOH questions are answered in writing privately at visit vs being asked the questions by LPN during rooming.
- Suspect underreported insecurities
- Greater acceptance of social work (SW) referral when those with insecurities were asked if they would like to receive support or resources (vs would they like to meet with SW).
- Majority (75%) declined SW.

Challenges

- Variability of LPN in compliance with screening and documenting reasons for declining referral, requiring frequent re-education.
- Screening burnout of both staff and patients.
- SW availability at time of visit is insufficient.

New Questions

AHC Health Related Social Needs Screening Questions				
Housing/ Utilities				
1. What is your living situation today?	00 0		live living	(I am temporarily staying with goutside on the street, on a beach,
2. Think about the place you live. Do you have problems with any of the following? CHOOSE ALL THAT APPLY 3. In the past 12 months has the electric, gas, oil, or water company threatened to shut off services in your home?	0 000	in a car, abandoned building, b Pests such as bugs, ants, or mice Mold Lead paint or pipes Lack of heat Yes No		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Already shut off		
Food Security				
 Within the past 12 months, you worried that your food would run out before you got money to buy more. 	_ _ _	Often true Sometimes true Never true		
Within the past 12 months, the food you bought just didn't last and you didn't have money to get more.		Often true Sometimes true Never true		
Transportation				
6. In the past 12 months, has lack of reliable transportation kept you from medical appointments, meetings, work or from getting things needed for daily living?	0	Yes No		
Employment				
7. Do you want help finding or keeping work or a job?	000	Yes, help finding work Yes, help keeping work I do not need or want help		
Education				
Do you want help with school or training? For example, starting or completing job training or getting a high school diploma, GED or equivalent.	0	Yes No		
Interpersonal Safety Because violence and abuse happens to a lot of people and affects their health we are asking the following questions.		core of 11 or more when the numeri estions] are added shows that the pe		
9. How often does anyone, including family and friends, physically hurt you?		Never (1) Rarely (2) Sometimes (3)	0	Fairly often (4) Frequently (5)
10. How often does anyone, including family and friends, insult or talk down to you?		Never (1) Rarely (2) Sometimes (3)	0	Fairly often (4) Frequently (5)
11. How often does anyone, including family and friends, threaten you with harm?		Never (1) Rarely (2) Sometimes (3)	0	Fairly often (4) Frequently (5)
12. How often does anyone, including family and friends, scream or curse at you?		Never (1) Rarely (2) Sometimes (3)		Fairly often (4) Frequently (5)

Next Steps

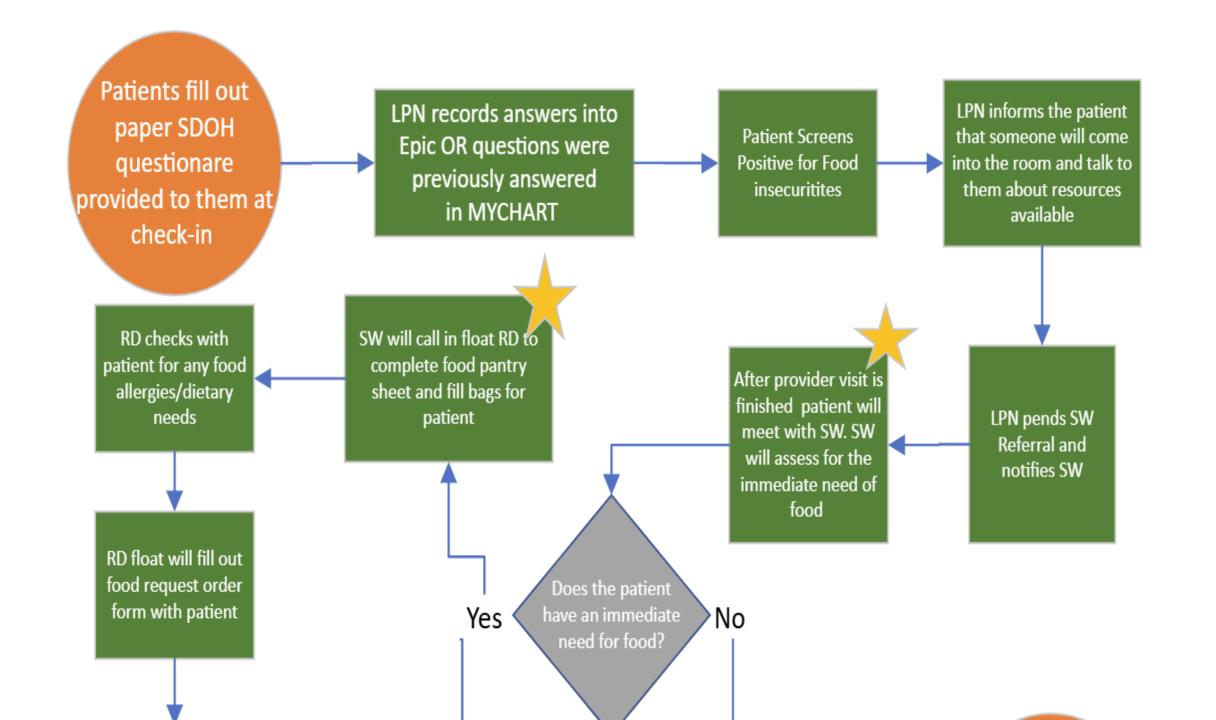
• See if there are changes to positive response rate of new housing domain questions

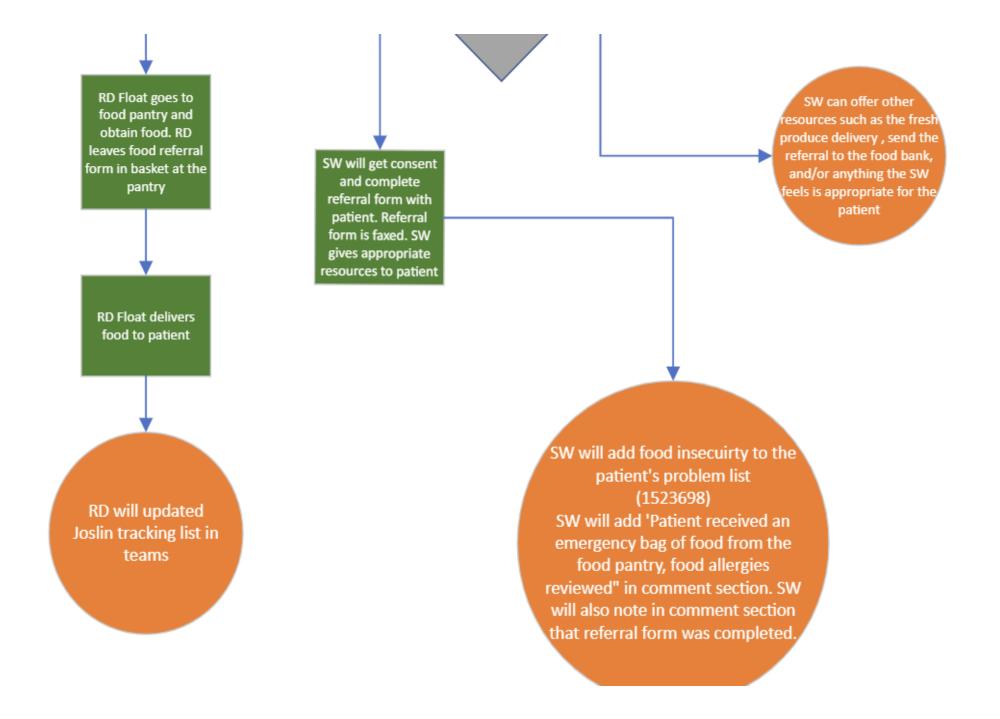
 Collect baseline data on new questions (employment, education, interpersonal safety)

Food Pantry

Nov 2023: Implemented a process to begin providing food from pantry located in clinic building

Aim is to provide food for those that screen positive for FI to relieve in short term and refer out to regional food bank to connect and sign up for programs to address insecurities long term.





Clinic:
MR#:
Staff Member:
Date:
Can Opener Needed?

Food Bag Assembly Guidelines

Using this food guideline ensures that each bag contains the amount of food each food group for a household size of 2 for 1 day.



Are there any food allergies individual or family?

Yes

No

Grains (Breakfast)	Grains (Lunch /Dinner)	Protein	Fruit	Vegetables	Dairy
Circle one choice from below	Circle one choice from below	Circle one choice from below	Any 2 Cans	Circle one of the two options below	Offer
1 Box of Toasted Oats Cereal	1lb box of Spaghetti	1 Can of Macaroni and Beef		1 Can Spaghetti sauce and 1 can of vegetables	Up to 6 of the 8oz containers per bag Boxed Milk
1 Box of Oatmeal Variety Pack	1lb of Rice	1 Jar of Peanut Butter		3 cans of Vegetables	
	2 Boxes of Macaroni and Cheese	1 can of Beans			
		2 cans of Tuna			
		2 cans of Chicken			

Permission to Contact form signed: Yes, patient would like to be contacted by the Food Bank for further services _____ No, patient is not interested ____

In an effort to maintain a fair and equitable distribution of food the USDA recommended food distribution for a household size of 2, for one day, was used as a guide to determine the amount of product from each food group to be packed in each bag.

For every two people in the household the patient screening positive for food insecurity receives 1 bag.

Household Size

1-2 people = **1** bag

3-4 people = 2 bags

5-6 people = 3 bags

7-8 People = 4 bags





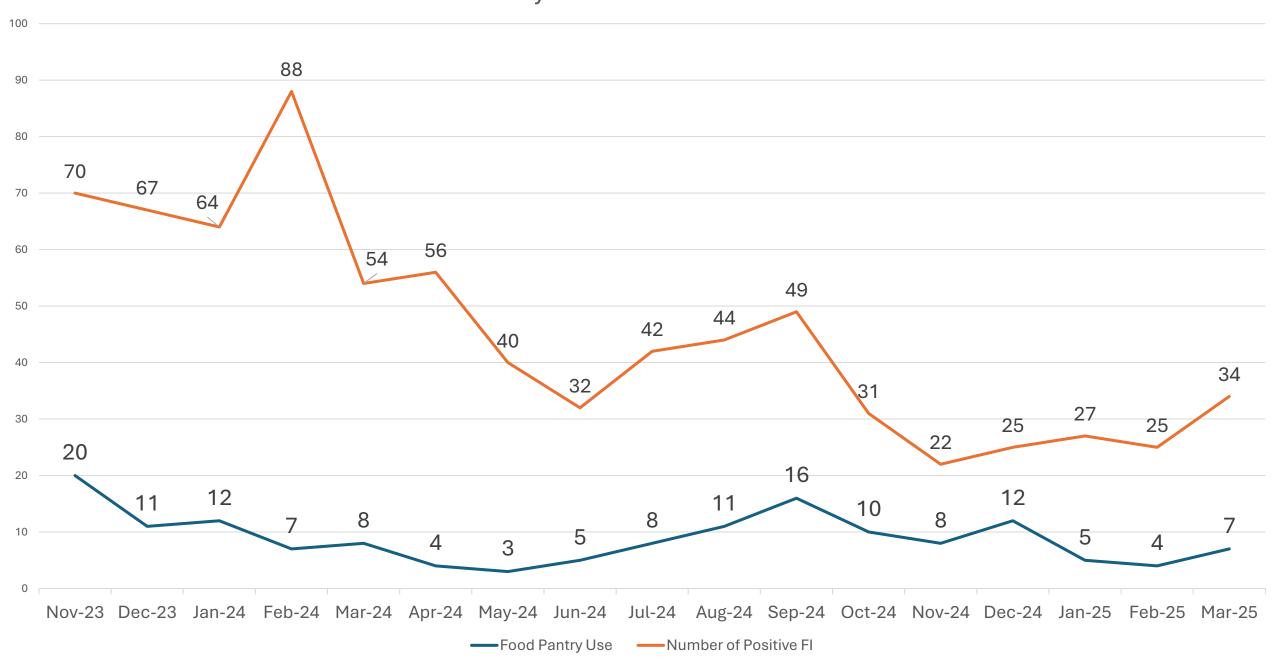
(315) 437-1899 | foodbankeny.org

FAX TO: 315.437.2739

Referral Form

Client name_	Client name						
Phone Number							
Zip Code							
To help us contac	ct you by telephone, p	please indicate below the times you are generally					
	MORNING	Afternoon					
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Client Signa	ture						

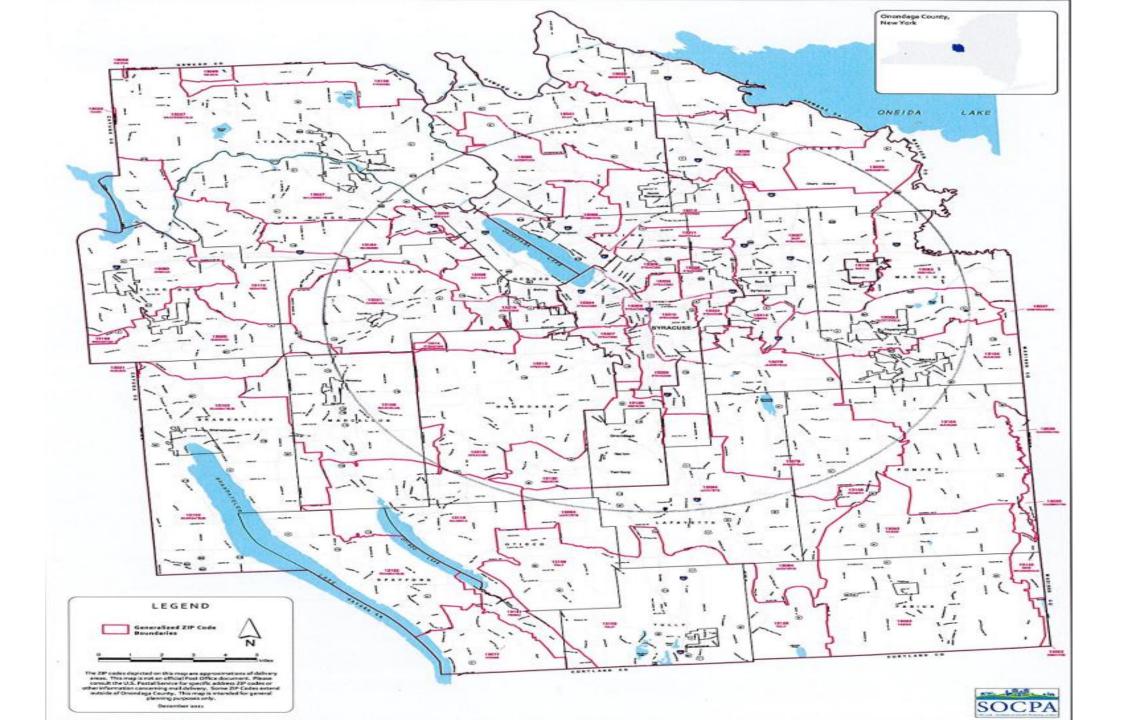
Pantry Use vs Total Positive FI



Monthly Produce Program

Also in Nov 2023, in coordination with Regional Food Bank of CNY those eligible (living w/ diabetes + HbA1c >7.0%) can receive a monthly box of produce.

Either pickup (near clinic) or if participant lives within 10 miles can have box delivered (via Doordash).



% Adults ≥ 22yrs. With Positive Food Insecurity Screening Positive for Transportation Insecurity



Type 1 & Type 2 Diabetes with HbA1c > 7.0% (Nov 2023 – Dec 2024)	Food Insecure (FI)* Not Receiving Produce 155 (11.5%)	Residence ≤10 mi of clinic (In) n (%) <u>Receive Free Produc</u> with and without FI 82 (6.1%)		<u>Total</u> 1350 (100)	Residence >10 miles of clinic (Out) n=1666	
Age [(years) median]	55	55	59	59	54	
Female [n (%)]	90 (58.1%)	55 (67.1%)	543 (48.8%)	688 (51.0%)	796 (47.8%)	
Race: Non-Hispanic White [n (%)] Non-White [n (%)]	68 (43.9%) 87 (56.1%)	41 (50.0%) 41 (50.0%)	648 (58.2%) 465 (41.8%)	757 (56.1%) 593 (43.8%)	1533 (92.0%) 123 (7.4%)	
Insurance [<i>n (%)]</i> Private Medicaid/Medicare	31(20.0%) 124 (80.0%)	8 (9.8%) 74 (90.2%)	374 (33.6%) 739 (66.4%)	413 (30.6%) 937 (69.4%)	762 (45.7%) 879 (52.7%)	
HbA1c [n (median/mean)] Baseline	155 (8.8%/9.4%)	81 (8.3%/8.6%)	1113 (8.2%/8.7%)	1349 (8.2%/8.8%)	1666 (8.1%/8.67%)	
Pre/post**	55 (8.5%/8.8% pre/ 8.7%/9.2% post)	31 (7.9%/8.4% pre/ 7.9%/8.8% post)				

Pre/post**

8.7%/9.2% post)

Screened Positive for Food Insecurity [n (%)]

155 (100%)

58 (70.7%)

0 (0%)

213 (15.8%)

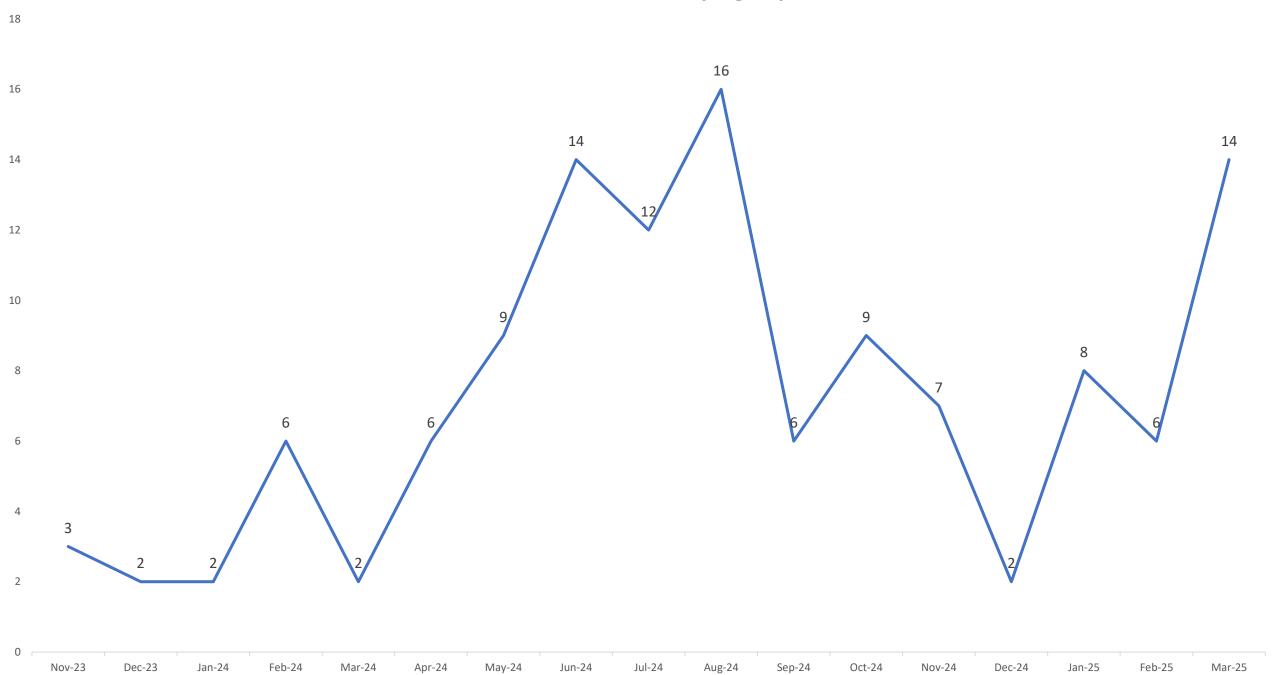
120 (7.2%)

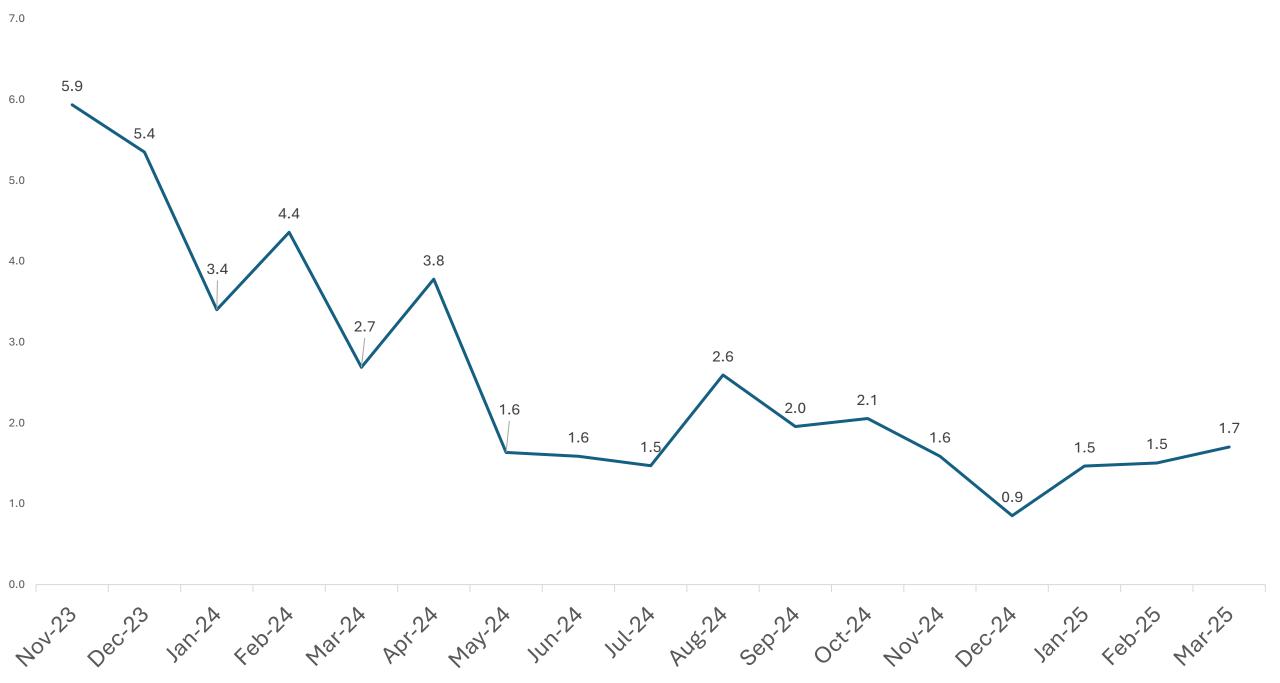
Food Insecurity [n (%)] 155 (100%) 58 (70.7%) 0 (0%) 213 (15.8%) 120 (7.2%)

* Provided positive response to one of the two following questions: Within the past 12 months, you worried that your food would run out before you got to buy more? Within the past 12 months, the food you bought just didn't last and you didn't have money to get more?

** Adults with both baseline and ~6-month follow-up HbA1c (%)

Fresh Produce Monthly Sign-ups





Correlation ≠ Causation

Screening fatigue + underreporting

- 29.6% of those living in Syracuse live in poverty¹
- 45.6% of children in Syracuse live in poverty (highest in nation for cities >100000 pop)²
- Reluctance to go through SW process again
- $\bullet \sim 2/3$ of T1D and $\sim 50-55\%$ of T2D no longer screened positive for insecurities at follow-up regardless of having/not having SW referral at baseline.

Previous analysis of those who accepted a referral to SW vs those that did not showed no significant differences in follow-up outcome measures.

• ~7/10 positive FI did not meet with SW same day in clinic after clinician visit.

Early analysis of those that used the food pantry vs those that experienced FI but did not use the pantry showed no significant difference as well.

- Need for more follow-up analysis.
- Small n created limitations.

Other Challenges

- Need for community resources for those that are FI but live outside of delivery radius.
 - Rural poverty also significant outside of city of Syracuse limits.
 - Our clinic sees individuals across much of CNY.
- Use of third-party delivery service is imperfect.
- Uncertainty in program future.

Next Steps

- Conduct a satisfaction survey for those that used the pantry and participate in the produce program
 - Pantry: We would like to know if Food Bank connected with individual and if they were set up with other resources (what those resources are, usefulness, etc.)
 - Produce Program: Is there enough food? Too much? Household size, compare that to those that are running out of food or have a surplus.
- Continue to study long term outcome measures (HbA1c, CGM metrics, follow-up screenings) to determine efficacy of programs.