















Demographice			
Variable (n=398)	Number (%) or Mean (SD)		
Age, yrs (SD)	54.2 (12.9)		
Female, No. (%)	202 (51)		
Race, No. (%) White Black Other	249 (63) 134 (34) 14 (3)		
Education, No. (%) ≤ High School or GED Some college College or more	168 (43) 115 (29) 109 (28)		
Literacy Status (REALM), No (%) ≤ -8 th grade ≥ High School	124 (31) 273 (69)		
Numeracy Skills (WRAT), No (%) ≤ 8 th grade ≥ High School	276 (69) 122 (31)		
Type 2 Diabetes (%)	341 (86)		
On Insulin (%)	241 (61)		
A1C (SD)	7 6 (1 7)		

Overall DNT Results Mean score 61% (SD 25%) Range 5%-100% Internal Reliability: 0.95

- Trouble Spots
 - Interpreting serving sizes
 - Fractions or decimals
 - Applying multi-step regimens (ex. sliding scale and carb-ratios)

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Applying titration instructions





You are to sliding sc based upo	Ilin Correction old to follow the slid ale indicates the an on your blood sugar	on Scale (I) ing scale shown he nount of insulin you r levels:	re. The take
	If Blood sugar is:	Units of Insulin]
	130-180	0	
	181-230	1	1
	231-280	2	
	281-330	3	1
	331-380	4	
•Perc	ent Correct: 85%	Vanderbilt Unive	orsity Medical Cer

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Similar Patient Characteristics

Variable	Control	Interv.
	(n=105)	(n=112)
Female	56%	56%
Age	57 yrs	54 yrs
African American	60%	69%
Household Income ≤ \$20,000	75%	70%
Less than a High School Education	44%	36%

Variable	Control	Interv.
	(n=105)	(n=112)
Baseline A1C (%)	10.7	10.9
Duration of Diabetes	8.6 yrs	8.1 yrs
Use of Insulin at Enrollment	38%	40%
Hypertension	82%	83%
Hypercholesterolemia	63%	60%
Realm Score (0-66)	46	45
Low Literacy (≤ 6 th Grade)	32%	44%

Variable	Control (n=95)	Intervention (n=98)	Difference
A1C (%)	-1.2%	-2.1%	0.9% (0.8,1.0)
SBP (mmHg)	+2.3	-6.9	9.2 (2.3,16.1)
DBP (mmHg)	+1.2	-3.6	4.8 (1.1,8.6)
ASA (mmHg)	+6%	+47%	41% (25-55)
T. Chol. (mg/dL)	-12	-27	15 (-4, 35)

























/ariable	Group	Baseline	Baseline to 3 months	Baseline to 6 months
A1C (%)	Carb	8.4 (7.6, 9.7)	7.3 (6.9, 8.5) n=37	7.8 (6.9, 9.7) n=41
Δ A1C	1C Count	n=50	-0.70 (-1.2, -0.1)	-0.30 (-1, 0.2)
Plate	Plate	ate 8.3 (7.5, 10.4)	7.5 (6.9, 8.4) n=42	7.5 (6.9, 8.4) n=43
	11-50	-0.60 (-1.5, -0.3)	-0.50 (-1.2, 0.05)	
	8.0 (7.5, 9.7)	7.3 (6.9, 7.9) n=41	7.8 (7, 9.2) n=42	
		11-50	-0.60 (-1.4, 0.0)	-0.30 (-0.80, 0.4)

	Mean ∆A1C (%) 6-Months	95% Confidence Interval	p-value
Carb Counting	-4.9	[-11.9 – 1.7]	0.220
Plate	-6.6	[-13.3 – 0.1]	0.051





Variable	Treatment Arm	Baseline	Baseline to 3 months	Baseline to 6 months
Weight, Ibs	Carb	218 (189, 253)	-1 (-5.3, 0.3)	-1.8 (-6.5, 1)
	Plate	224 (189, 259)	-1 (-3.5, 0)	-1.0 (-10, 5)
	Control	216 (180, 243)	0 (-2, 2.6)	0 (-4, 5.8)
Treatment	Carb	24 (17, 30)	3 (0.3, 8.5)	4 (-1, 9)
Satisfaction (range 6-36)	Plate	22.5 (17, 29)	7 (0.5, 11)	7 (1, 13)
,iungo o 11,	Control	26 (19, 31)	2 (-1, 5)	3 (-2, 9)
Self-Efficacy	Carb	23.5 (18, 29)	2 (0, 9)	2 (0, 9)
(range 8-40)	Plate	24 (21, 27)	4 (-1, 10)	5 (-2, 8)
	Control	24 (21, 29)	3 (-2, 7)	2.5 (0, 8)





 Future studies needed to further address this issue

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