Analyzing the relationship between perceived self-efficacy in diabetes self-management and demographic characteristics for a population who attended a clinical diabetes education class in Fort Worth, Texas

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In memory of a wonderful mentor and friend, Ms. Teresa Pritchett, and an exceptional advisor and professor, Dr. Gerald Springer.

Abstract

Diabetes mellitus is a metabolic disease in which insulin production and efficacy is inhibited (American Diabetes Association). Managing diabetes comes in many forms, and each management style is individualized not only to the type of diabetes, but to each individual with the disease. This situation makes self-efficacy in diabetes management extremely apparent. Although there is much research regarding the effect of self-efficacy on diabetes self care and management, there is not much research on the effect of certain demographic variables on selfefficacy in diabetes management. The objective of this study was to explore the influence of demographic factors on perceived self-efficacy in managing diabetes, focusing on correlations and trends. The study was conducted by collecting survey data from patients who attended diabetes education classes at the Outpatient Diabetes and Nutrition Center at Texas Health Huguley Hospital in Fort Worth, Texas from June to October of 2024. The surveys contained questions regarding the patient's demographic characteristics (age, gender, type of diabetes, length of diagnosis, referral, and A1c), and perceived self-efficacy in specific areas of diabetes self-management. The results of this study found that certain demographic characteristics had a substantial impact on a patient's perceived self-efficacy in specific areas of diabetes selfmanagement. These results indicate that self-efficacy is an important factor in diabetes management that should be emphasized in future diabetes interventions.

Introduction

Diabetes mellitus, a metabolic disease, inhibits insulin production and efficacy (American Diabetes Association). Many types of diabetes occur, including but not limited to type 1, type 2, prediabetes, and gestational. Diabetes management is individualized not only to the type of diabetes, but to each individual with the disease. This individualization makes diabetes extremely difficult to treat effectively, not just for medical professionals, but for the patient's everyday lifestyle. Furthermore, the effects of poorly managed diabetes can be detrimental.

Because diabetes mellitus is exceedingly dependent on patient self-management, selfconfidence for the patient's individual skills becomes especially apparent. A study conducted by the Stanford Patient Education center found that people with diabetes make 180 health-related decisions per day (Digitale 2014). One study found that self-efficacy had a direct effect on diabetes self-care practice (Devarajooh 2017), and another study found that individuals with diabetes may benefit from self-efficacy-focused diabetes-related education (Jiang 2019). These studies show that an individual's perception of their personal diabetes management is crucial to understanding how to better manage the disease as a whole. Understanding how a person feels towards their diabetes management will help healthcare providers better approach individuals with diabetes for future interventions.

To understand self-efficacy's role in diabetes care, the definition of self-efficacy must be established. Self-efficacy, a term coined in 1977 by Robert Bandura, is defined as "... a person's particular set of beliefs that determine how well one can execute a plan of action in prospective situations (Bandura 1977)." Self-efficacy not only encompasses a person's confidence in their abilities and skills, but also the motivation and implementation of their personal set of beliefs. Perceived self-efficacy, a measurable psychometric property, refers to a person's belief in their

own abilities. One way to measure perceived self-efficacy is to gauge self-confidence in a particular area or areas (e.g. diabetes self-management skills) for a sample group of participants. In diabetes self-management, perceived self-efficacy can indicate whether or not a person feels confident in their own abilities to manage their diabetes.

Although much research has been done regarding the effect of self-efficacy on diabetes self-care and management, the effect of certain demographic variables on self-efficacy in diabetes management remains largely under-researched.

Objective

The objective of this study is to explore the influence of demographic factors on perceived self-efficacy in managing diabetes, focusing on correlations and trends.

Methods

Research Design

A cross-sectional study was conducted at the Outpatient Diabetes and Nutrition Center at Texas Health Huguley Hospital in Fort Worth, Texas. The sample consisted of 29 participants who attended a comprehensive diabetes education class provided by the Outpatient Diabetes and Nutrition Center. Sample participants were measured from the months of June, July, September, and October. Prior to the beginning of each class, individuals from each month were given two anonymous surveys containing questions regarding demographics and self-efficacy in diabetes self-management. The data for each month were collected from the center at the end of the given time period.

Survey Design

Two surveys were given to the sample population prior to the beginning of each comprehensive diabetes education class. All collected responses were anonymous for each survey.

The first survey contained six questions regarding the respondent's demographics: age, gender, type of diabetes, length of diagnosis, most recent A1c, and referral to the class. Because an aspect of perceived self-efficacy involves personal motivation, responses for what motivated the respondent to attend the class were also included in the survey. Categories for diabetes types and A1c were referenced from the American Diabetes Association (ADA). Categories for age, gender, and length of diagnosis were determined by the author (See Appendix A).

The second survey contained eight questions regarding the respondent's perceived selfefficacy in specific areas of personal diabetes self-management. The survey questions were presented on a Likert scale from 1 to 10, with 1 being not at all confident and 10 being totally confident. The survey is referenced from the online, public-use questionnaire, "Self-Efficacy for Diabetes," provided by the Stanford Patient Education Research Center (Department of Family and Community Medicine) (See Appendix A).

Data Analysis

The data collected from the surveys were organized in Excel and visualised using pie charts (See Appendix B). The data were organized and analyzed using SPSS to identify possible trends between the demographics and self-efficacy-focused variables described in each survey.

For descriptive statistics, the parameters for the self-efficacy-focused questions were adjusted to better represent the data. Data sets were represented as the following: responses 1-2 were "Not at all confident," responses 3-4 were "Somewhat not confident," responses 5-6 were "Average," responses 7-8 were "Somewhat confident," and responses 9-10 were "Totally confident."

For inferential statistics, the parameters for both demographics and self-efficacy-focused questions were adjusted to run the statistical tests effectively and to more accurately represent the data presented. Adjusted parameters were set based on the averages given by descriptive statistics and the sample size of the data in order to ensure the most accurate representation of the data. Figure 1 describes the representation of the data:

Section:	<u>Categories:</u>	<u>Number of</u> <u>Categories:</u>
1: Number (of participants)	29 Total Participants	29
2: Age	Under 65; 65 and Older	2
3: Gender	Male; Female	2
4: Type of Diabetes	Type 2; Other	2
5: Length of Diagnosis	Less than 2 years; 2 years and more	2
6: A1c	<6.4%; 6.5%-8.4%; 8.5%-10%	3
7: Referral	Endocrinologist/other referral; PCP referral; self-referral	3
8-15: Self Efficacy Questions	1-4: Somewhat to not at all confident5-6: Average confidence7-10: Somewhat to totally confident	3

Figure 1: Recoded parameters for the data set used for inferential statistics

Group statistics and independent samples t-tests were run for sections with two categories

(Age, Gender, Type of Diabetes, and Length of Diagnosis) and the Analysis of Variance

(ANOVA) tests were run for sections with three categories (A1c and Referral).

Results

T-test

	Table 1: Group Statistics										
Age	Group Statistics										
		Age	N	Mean	Std. Deviation	Std. Error Mean					
	How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?	Under 65	12	2.0000	.85280	.24618					
		Over 65	17	2.5294	.71743	.17400					
	How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do not have diabetes?	Under 65	12	1.9167	.90034	.25990					
		Over 65	17	2.4706	.71743	.17400					
	How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?	Under 65	12	1.8333	.83485	.24100					
		Over 65	17	2.4118	.61835	.14997					
	How confident do you feel that you can do something to prevent your	Under 65	12	2.5833	.79296	.22891					
	blood sugar level from dropping when you exercise?	Over 65	16	1.9375	.92871	.23218					
Gender	No Significant Values										

Type of	Group Statistics									
Diabetes	_	Diabetes Type (American Diabetes Association)	N	Mean	Std. Deviation					
	How confident do you feel that you can follow your diet when you have to	Other	4	1.5000	.57735					
prepare or share food other people who do have diabetes? How confident do you that you can choose appropriate foods to when you are hungry example, snacks)?	prepare or share food with other people who do not have diabetes?	Туре 2	24	2.3750	.82423					
	How confident do you feel that you can choose the appropriate foods to eat	Other	4	1.5000	.57735					
	when you are hungry (for example, snacks)?	Туре 2	24	2.2917	.75060					
Length of Diagnosis	No Significant Values									

	Table 2: Independent	Samples Test			
Age			t-tes	st for Equality o	f Means
			df	Signif One-Sided p	icance Two-Sided p
	How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day? How confident do you feel that you can follow your diet when you have to	Equal variances assumed	27	.041	.081
		Equal variances not assumed	21.113	.047	.094
		Equal variances assumed	27	.038	.076
	prepare or share food with other people who do not have diabetes?	Equal variances not assumed	20.271	.046	.092
	How confident do you feel that you can choose the	Equal variances assumed	27	.020	.041
when you are hungry (for example, snacks)?	Equal variances not assumed	19.190	.028	.056	

	Ho tha	w confident do you feel t you can do mething to prevent your	Equa	al variances assumed	26		.032		.064			
	blo dro exe	od sugar level from opping when you prcise?	Equa assu	al variances not med	25.491		.029		.058			
Gender	No	Significant Values										
Type of						t-tes	t for Equal	lity o	f Means			
Diabetes	Significance											
						df	One-Side	d p	Two-Sided p			
		How confident do you fee that you can follow your diet when you have to		Equal variances assu	Imed	26	.()27	.053			
		prepare or share food wit other people who do not have diabetes?	with not	Equal variances not assumed	5.304	.()22	.045				
	3	How confident do you that you can choose the appropriate foods to e	feel ne	Equal variances assu	Imed	26	.(28	.056			
		when you are hungry (fo example, snacks)?		Equal variances not 4.87 assumed			.0)31	.061			
Length of	No	Significant Values										
Diagnosis												

Figure 2: Statistically significant values for the group statistics and independent samples t-tests.

An independent samples t-test was conducted to compare age groups for confidence in eating meals every 4-5 hours every day, including breakfast. There was a significant difference in the scores for participants 65 years of age and older (M=2.5, SD=0.72) and under 65 years of age (M=2.0, SD=0.85), as shown in Table 1: Group Statistics in Figure 2; t (27)=-1.81, p = 0.041, as noted in Table 2: Independent Samples Test in Figure 2 (See also Appendix C, *T-Test Results*: Independent Samples Test: Levene's Test for Equality of Variances). These results suggest that age affects participants' confidence in eating meals 4-5 hours every day. Specifically, individuals with diabetes who are 65 years of age and older were more confident than those under 65 years of age in eating meals every 4-5 hours.

An independent samples t-test was conducted to compare age groups for confidence in following one's diet when preparing or sharing food with those without diabetes. There was a significant difference in the scores for participants 65 years of age and older (M=2.5, SD=0.72) and under 65 years of age (M=2.0, SD=0.90), as shown in Table 1: Group Statistics in Figure 2; t (27)=-1.84, p = 0.038, as noted in Table 2: Independent Samples Test in Figure 2. These results suggest that age affects participants' confidence in following one's diet when preparing or sharing food with those without diabetes. Specifically, individuals with diabetes who are 65 years of age or older were more confident than those under 65 years of age in following one's diet when preparing or sharing food with those without diabetes.

An independent samples t-test was conducted to compare age groups for confidence in choosing the appropriate foods to eat when hungry (for example, snacks). There was a significant difference in the scores for participants 65 years of age and older (M=2.4, SD=0.62) and under 65 years of age (M=1.8, SD=0.083), as shown in Table 1: Group Statistics in Figure 2; t (27)=-2.15, p = 0.041, as noted in Table 2: Independent Samples Test in Figure 2. These results suggest that age affects participants' confidence in choosing the appropriate foods to eat when hungry. Specifically, individuals with diabetes who are 65 years of age and older were more confident than those under 65 years of age in choosing the appropriate foods to eat when hungry.

ANOVA

	Alc	Referral								
Table 1: Descriptives	No Significant	How confident do ye	ou feel that y	ou can	Des	scriptives 15 to 30 m	S ninutes,	4 to 5 time	s a week?	
I I I I I I I I I I I I I I I I I I I	0								95% Confidenc	e
	Values	Endocrinologist or r from another health	N Mean Endocrinologist or referral from another healthcare 10 1.7000			Std. De	viation 4868	Std. Error .30000	Lower Bour	nd 14
		provider		4.0			0450	17011		- 4
		Self-referral		12	2.750	, .6 7	2158	.17944	2.355	10
		Total		28	2.2500	.9	2796	.17537	1.890	02
		Endocrinologist from another he provider PCP referral Self-referral Total	or referral althcare	Upper 2	Bound 2.3786 3.1449 3.1985 2.6098	Minimum 1.00 1.00 1.00 1.00	Maxim 3. 3. 3. 3.	00 00 00 00		
Table 2: ANOVA	No Significant	ANOVA How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?						?		
	X 7 1	Between Groups	6.06	57	2	3.0	033	4.413	.023	
	Values	Within Groups	17.18	33	25	.6	687			
		Total	23.25	50	27					

Table 3:	No	Homogeneous Subsets				
Homogeneity	Significant	How confident do you	u feel that you can exerc times a week?	ise 15 to	o 30 minute	s, 4 to 5
of Variances	Values		What prompted you to attend today's education	М	Subset for a	lpha = 0.05
		Student-Newman-Keuls ^{a,b}	Endocrinologist or referral from another healthcare provider	10	1.7000	2
			Self-referral	6	2.1667	2.1667
			PCP referral	12		2.7500
			Sig.		.255	.158
		Means for groups in homog a. Uses Harmonic Mean b. The group sizes are u error levels are not gu	eneous subsets are displayed Sample Size = 8.571. nequal. The harmonic mean of aranteed.	the group	o sizes is used	. Туре I

Figure 3: Statistically significant values for the ANOVA tests.

There was a significant difference among the three Referral categories (Endocrinologist or other healthcare provider referral, self-referral, and primary care provider (PCP) referral) as determined by one way ANOVA, F(2,25)=4.413, p.023 as shown in Table 2: ANOVA in Figure 3. Tukey post hoc testing revealed significant differences between N=10 referral from an endocrinologist or another healthcare provider (M=1.70, SD=0.949) and N=12 referral from a primary care provider (PCP) (M=2.75, SD=0.622). There was no significant difference between N=6 and N=10 self-referral (.255) and N=6 and N=12 self-referral (.158). The effect size is defined as the sum of squares between groups over the total (McLeod 2023). The effect size for these results was 6.066 divided by 17.183, resulting in an effect size of .35.

The null hypothesis is a statistical hypothesis stating that there are no significant differences between the indicated populations (UC Berkeley 2019). For these results, the null hypothesis was rejected because the p value (0.023) is less than (0.05). This means that there is a statistical difference between referrals from an endocrinologist or another healthcare provider and referrals from a primary care provider (PCP) that affects the confidence that an individual with diabetes can exercise 15 to 30 minutes, 4 to 5 times a week. Specifically, those who were

referred from a primary care provider were more confident that they could exercise 15 to 30 minutes, 4 to 5 times a week, than those referred from an endocrinologist or another healthcare provider.

The results in Tables 2 and 3 in Figure 3 are statistically significant results from the inferential statistics data analysis. For p values over 0.05, the null hypothesis was rejected, and the differences between the values are therefore statistically insignificant (See Appendix C).

Discussion

Age

According to the data, the 65 and older age group felt more confident in eating meals every 4 to 5 hours, more confident in following their diet, more confident in choosing the appropriate foods, and less confident that they could prevent their blood sugar from dropping during exercise. Many possible conclusions can be drawn from these results.

Possible indications, based on the given data, could be that participants who were 65 years of age and older may feel more comfortable following an established routine, including a routine for their diet. An established routine may also be more attainable for patients who are 65 years of age and older who live a more sedentary lifestyle. Participants who were 65 years of age and older could also feel less confident in exercise due to other chronic and underlying issues, as well as difficulties in identifying low blood sugars.

Gender

There were no statistically significant results between the male and female populations for diabetes self-efficacy reports. These results indicate that the patient's gender is independent from self-efficacy. Specifically, these results indicate that gender does not influence how confident a patient is for the self-management of their own diabetes.

Type of Diabetes

According to the data, patients who were diagnosed with type 2 diabetes felt more confident that they can follow their diet and more confident that they can choose the appropriate foods than patients who were diagnosed with another type of diabetes (i.e. prediabetes, type 1 diabetes, gestational diabetes, etc.). Numerous reasons occur regarding why people with type 2 diabetes felt more confident in these areas as opposed to those who were diagnosed with another type of diabetes.

One possible reason could be that type 2 diabetes can be reversible in many cases which could encourage patients with type 2 diabetes to counteract the effects of their diabetes through their diet. Participants with an irreversible type of diabetes (i.e., type 1 diabetes) may feel less motivated to try to counteract the effects of their diabetes through their diet.

Length of Diagnosis

According to the data, there were no statistically significant results for length of diagnosis and diabetes self-efficacy reports. These results indicate that how long a patient has been diagnosed with diabetes does not influence how confident they are in managing their own diabetes.

A1c

According to the data, there were no statistically significant results for A1c and diabetes self-efficacy reports. These results indicate that a patient's A1c does not influence how confident they are in managing their own diabetes.

Referral

According to the data, those who were referred by a primary care provider (PCP) felt more confident in exercising 15 to 30 minutes than those referred by an endocrinologist. Many possible reasons could be used to explain these results. One reason could be the relationship between the patient and their primary care provider (PCP) and their endocrinologist or another healthcare provider. A primary care provider generally provides a more comprehensive and wraparound care plan, emphasizing all aspects of care, rather than a specialized doctor. Primary care providers may also refer more of their patients to diabetes-focused education because they are the first to see the first signs of diabetes, i.e. prediabetes and early type 2 diabetes.

Endocrinologists are more specialized, with less emphasis on whole body care. Endocrinologists may refer fewer of their patients to diabetes education classes compared to primary care providers because they might assume that their patients have a basic knowledge of diabetes by the time they are referred.

The differences between these groups (PCP and endocrinologist or other healthcare provider) and those who were self-referred are not significant. These results indicate that diabetes self-efficacy is independent from self-referrals and the only differences lie between referrals from an endocrinologist or other healthcare provider and a primary care provider.

Limitations

Due to the location and sample size of this study, the results may not be generalized to a larger population or region. Further research, such as race/ethnicity and socioeconomic status as potential demographic factors, may be conducted to expand on these findings.

Conclusions

In conclusion, the objective of this study was to explore the influence of demographic factors on perceived self-efficacy in managing diabetes, focusing on correlations and trends. The results of this study found that certain demographic characteristics had a substantial impact on a patient's perceived self-efficacy in specific areas of diabetes self-management. These results indicate that self-efficacy is an important factor in diabetes management that should be emphasized in future diabetes interventions. Employing patient-focused and self-efficacy-focused diabetes care in future diabetes interventions may improve patient self-confidence in diabetes management.

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Appendices

Appendix A: Survey Tools

Demographics Survey

This survey is completely ANONYMOUS. **Do <u>NOT</u>** put any identifiable characteristics, including name and date of birth, on this form.

Do <u>NOT</u> complete this form IF you have completed this form previously, or you do not have diabetes.

Date:							
Please circle <u>Age:</u>	e one of the follow	ing options:					
Under 18	18-25	26-35	36-45	46-55	56-65	65+	
<u>Gender:</u>							
Male	Female	Other					
<u>l have been</u>	diagnosed with	the following ty	pe of diabete	<u>s:</u> (American Diat	oetes Associatio	on)	
Туре 1	Type 2 Prediabe		Ges	stational	Other		
How long h	<u>ave you been dia</u>	agnosed with di	abetes?:				
Less than 3	months	3-6 months	6 m	onths to 1 year	1-2	years	
2-3 years	3-5 ye	ears	More than 5 years				
Most Recen	it A1c: (American	Diabetes Assoc	iation)				
Less than 5.	7% 5.7%-6.4%	6.5-7.4%	7.5-8.4%	8.5-9.4%	9.5-10%		
What promp • End • Prim • Refe	oted you to atten ocrinologist referm nary care physicia erral from another	<u>d today's educa</u> al n referral healthcare provi	ation class? (/	Please check mar	k only one optic	on)	

- Self-referral
- Other:_____

Diabetes Self-Efficacy Survey (Department of Family and Community Medicine)



Self-Efficacy for Diabetes

We would like to know how confident you are in doing certain activities. For each of the following questions, please choose the number that corresponds to your confidence that you can do the tasks regularly at the present time.

- How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?
- How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do not have diabetes?
- How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?
- 4. How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?
- How confident do you feel that you can do something to prevent your blood sugar level from dropping when you exercise?
- 6. How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be?
- How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor?
- How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?

not at all											totally
confident	1	2	3	4	5	6	7	8	9	10	confident
not at all									9		totally
confident	1	2	3	4	5	6	7	8		10	confident
not at all									9		totally
confident	1	2	3	4	5	6	7	8		10	confident
not at all											totally
confident	1	2	3	4	5	6	7	8	9	10	confident
not at all									9		totally
confident	1	2	3	4	5	6	7	8		10	confident
not at all											totally
confident	1	2	3	4	5	6	7	8	9	10	confident
not at all									9		totally
confident	1	2	3	4	5	6	7	8		10	confident
not at all									9		totally
confident	1	2	3	4	5	6	7	8		10	confident

Scoring

The score for each item is the number circled. If two consecutive numbers are circled, code the lower number (less self-efficacy). If the numbers are not consecutive, do not score the item. The score for the scale is the mean of the six items. If more than two items are missing, do not score the scale. Higher number indicates higher self-efficacy.

Characteristics

Tested on 186 subjects with diabetes.

No. of	Observed	Mean	Standard	Internal Consistency	Test-Retest
items	Range		Deviation	Reliability	Reliability
8	1-10	6.87	1.76	.828	NA

Source of Psychometric Data

Stanford English Diabetes Self-Management study, ongoing.

Comments

This 8-item scale was originally developed and tested in Spanish for the Diabetes Self-Management study. For internet studies, we add radio buttons below each number. There is another way that we use to format these items, which takes up less space on a questionnaire, shown also in the PDF document. This scale is available in Spanish.

References

Unpublished.

This scale is free to use without permission

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Appendix B: Descriptive Statistics Pie Charts

Demographics Descriptive Statistics



Self-Efficacy Descriptive Statistics



Appendix C: Inferential Statistics Output

T-test Results

Independent Samples Test Levene's Test for Equality of Variances Equality of

		Varianc	-03	Equality of	
		F	Sia.	t	
How confident do you feel that you can eat your	Equal variances assumed	.137	.714	-1.811	
every day, including breakfast every day?	Equal variances not assumed			-1.756	
How confident do you feel that you can follow your diet when you have to	Equal variances assumed	1.063	.312	-1.843	
prepare or share food with other people who do not have diabetes?	Equal variances not assumed			-1.771	
How confident do you feel that you can choose the	Equal variances assumed	1.351	.255	-2.147	
when you are hungry (for example, snacks)?	Equal variances not assumed			-2.038	
How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?	Equal variances assumed	.680	.417	1.010	
	Equal variances not assumed			1.022	
How confident do you feel that you can do something to prevent your	Equal variances assumed	1.546	.225	1.935	
blood sugar level from dropping when you exercise?	Equal variances not assumed			1.981	
How confident do you feel that you know what to do when your blood sugar	Equal variances assumed	.837	.369	.847	
level goes higher or lower than it should be?	Equal variances not assumed			.861	
How confident do you feel that you can judge when the changes in your illness	Equal variances assumed	.098	.757	.435	
mean you should visit the doctor?	Equal variances not assumed			.428	
How confident do you feel that you can control your diabates so that it does	Equal variances assumed	.039	.846	036	
not interfere with the things you want to do?	Equal variances not assumed			036	

Group Statistics											
	Age	N	Mean	Std. Deviation	Std. Error Mean						
How confident do you feel that you can eat your meals every 4 to 5 hours	Under 65	12	2.0000	.85280	.24618						
every day, including breakfast every day?	Over 65	17	2.5294	.71743	.17400						
How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do not have diabetes?	Under 65	12	1.9167	.90034	.25990						
	Over 65	17	2.4706	.71743	.17400						
How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?	Under 65	12	1.8333	.83485	.24100						
	Over 65	17	2.4118	.61835	.14997						
How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?	Under 65	12	2.4167	.90034	.25990						
	Over 65	17	2.0588	.96635	.23437						
How confident do you feel that you can do something to prevent your	Under 65	12	2.5833	.79296	.22891						
blood sugar level from dropping when you exercise?	Over 65	16	1.9375	.92871	.23218						
How confident do you feel that you know what to do when your blood sugar	Under 65	12	2.4167	.79296	.22891						
level goes higher or lower than it should be?	Over 65	15	2.1333	.91548	.23637						
How confident do you feel that you can judge when the changes in your illness	Under 65	12	2.5000	.79772	.23028						
mean you should visit the doctor?	Over 65	16	2.3750	.71880	.17970						
How confident do you feel that you can control your diabetes so that it does	Under 65	10	2.4000	.84327	.26667						
not interfere with the things you want to do?	Over 65	17	2.4118	.79521	.19287						

Independent Samples Test

t-test for Equality of Means

			Signit	licance
		df	One-Sided p	Two-Sided p
How confident do you feel that you can eat your meals every 4 to 5 hours	Equal variances assumed	27	.041	.081
every day, including breakfast every day?	Equal variances not assumed	21.113	.047	.094
How confident do you feel that you can follow your diet when you have to	Equal variances assumed	27	.038	.076
prepare or share food with other people who do not have diabetes?	Equal variances not assumed	20.271	.046	.092
How confident do you feel that you can choose the	Equal variances assumed	27	.020	.041
when you are hungry (for example, snacks)?	Equal variances not assumed	19.190	.028	.056
How confident do you feel that you can exercise 15	Equal variances assumed	27	.161	.322
to 30 minutes, 4 to 5 times a week?	Equal variances not assumed	24.861	.158	.316
How confident do you feel that you can do something to prevent your	Equal variances assumed	26	.032	.064
blood sugar level from dropping when you exercise?	Equal variances not assumed	25.491	.029	.058
How confident do you feel that you know what to do when your blood sugar	Equal variances assumed	25	.203	.405
level goes higher or lower than it should be?	Equal variances not assumed	24.805	.199	.397
How confident do you feel that you can judge when the changes in your illness	Equal variances assumed	26	.334	.667
mean you should visit the doctor?	Equal variances not assumed	22.388	.336	.673
How confident do you feel that you can control your diabetes so that it does	Equal variances assumed	25	.486	.971
not interfere with the things you want to do?	Equal variances not assumed	18.093	.486	.972

Mean Std. Deviation Std. Error Mean 15 2.2667 .88372 .22817 N Gender Gende How confident do you feel Male that you can eat your meals every 4 to 5 hours every day, including breakfast every day? Female 14 2.3571 .74495 .19910 How confident do you feel Male that you can follow your diet when you have to prepare or share food with other people who do not have diabetes? 15 2.2000 .22254 .86189 14 2.2857 .22060 .82542 How confident do you feel Male that you can choose the appropriate foods to eat when you are hungry (for example, snacks)? 15 2.0667 .88372 .22817 14 2.2857 .61125 .16336 How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week? Femal 15 2.4667 .83381 .21529 Female 14 1.9286 .99725 .26653 How confident do you feel that you can do something to prevent your blood sugar level from dropping when you exercise? 14 2.2857 .24424 .91387 14 2.1429 .94926 .25370 How confident do you feel Male that you know what to do when your blood sugar level goes higher or lower Female than it should be? 14 2.4286 .85163 .22761 .23916 13 2.0769 .86232 How confident do you feel Male that you can judge when the changes in your illness mean you should visit the Female doctor? 15 2.5333 .63994 .16523 13 2.3077 .85485 .23709 How confident do you feel Male that you can control your diabetes so that it does not interfere with the things you want to do? 14 2.4286 .75593 .20203 13 2.3846 .24122 .86972

Group Statistics

Independent Samples Test

Levene's Test for Equality of t-test for Variances Equality of

		F	Sia.	t
How confident do you feel that your an eat your	Equal variances assumed	1.193	.284	297
every day, including breakfast every day?	Equal variances not assumed			299
How confident do you feel that you can follow your diet when you have to	Equal variances assumed	.055	.817	273
prepare or share food with other people who do not have diabetes?	Equal variances not assumed			274
How confident do you feel that you can choose the	Equal variances assumed	2.889	.101	771
when you are hungry (for example, snacks)?	Equal variances not assumed			781
How confident do you feel that you can exercise 15	Equal variances assumed	3.077	.091	1.581
to 30 minutes, 4 to 5 times a week?	Equal variances not assumed			1.571
How confident do you feel that you can do something to prevent your	Equal variances assumed	.103	.751	.406
blood sugar level from dropping when you exercise?	Equal variances not assumed			.406
How confident do you feel that you know what to do when your blood sugar	Equal variances assumed	.024	.878	1.066
level goes higher or lower than it should be?	Equal variances not assumed			1.065
How confident do you feel that you can judge when the changes in your illness	Equal variances assumed	2.424	.132	.797
mean you should visit the doctor?	Equal variances not assumed			.781
How confident do you feel that you can control your diabetes so that it does	Equal variances assumed	.596	.447	.140
not interfere with the things you want to do?	Equal variances not assumed			.140

Independent Samples Test

t-test for Equality of Means Significance One-Sided p Two-Sided p df How confident do you feel Equal variances assumed that you can eat your meals every 4 to 5 hours every day, including breakfast every day? 27 .384 .769 26.740 .767 .384 How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do not have diabetes? 27 .393 .787 26.978 .393 .787 How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)? Equal variances not assumed 27 .448 .224 24.967 .221 .442 27 How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week? Equal variances assumed Equal variances not assumed .063 .126 25.441 .064 .129 26 How confident do you feel that you can do something to prevent your blood sugar level from dropping when you exercise? .344 .688 25.963 .344 .688 How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be? 25 .148 .297 24.801 .149 .297 How confident do you feel Equal variances assumed that you can judge when the changes in your illness mean you should visit the doctor? 26 .216 .432 .443 22.032 .222 25 How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do? .445 .889 23.889 .445 .890

Group Statistics Diabetes Type (American

	Diabetes Association)	N	Mean	Std. Deviation
How confident do you feel that you can eat your maple every 4 to 5 hours	Other	4	2.2500	.95743
every day, including breakfast every day?	Туре 2	24	2.2917	.80645
How confident do you feel that you can follow your diet when you have to	Other	4	1.5000	.57735
prepare or share food with other people who do not have diabetes?	Type 2	24	2.3750	.82423
How confident do you feel that you can choose the appropriate foods to eat	Other	4	1.5000	.57735
when you are hungry (for example, snacks)?	Туре 2	24	2.2917	.75060
How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?	Other	4	1.7500	.95743
	Type 2	24	2.3333	.91683
How confident do you feel that you can do something to prevent your	Other	4	2.2500	.95743
blood sugar level from dropping when you exercise?	Type 2	23	2.2609	.91539
How confident do you feel that you know what to do	Other	4	2.2500	.95743
level goes higher or lower than it should be?	Type 2	22	2.3182	.83873
How confident do you feel that you can judge when the changes in your illness	Other	4	2.5000	.57735
mean you should visit the doctor?	Туре 2	23	2.3913	.78272
How confident do you feel that you can control your diabetes so that it does	Other	2	2.0000	1.41421
diabetes so that it does not interfere with the things you want to do?	Type 2	24	2.4583	.77903

Group Statistics

	Diabetes Type (American Diabetes Association)	Std. Error Mean
How confident do you feel that you can eat your meals every 4 to 5 hours	Other	.47871
every day, including breakfast every day?	Туре 2	.16462
How confident do you feel that you can follow your diet when you have to	Other	.28868
prepare or share food with other people who do not have diabetes?	Type 2	.16824
How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?	Other	.28868
	Туре 2	.15322
How confident do you feel that you can exercise 15	Other	.47871
times a week?	Type 2	.18715
How confident do you feel that you can do something to prevent your	Other	.47871
dropping when you exercise?	Type 2	.19087
How confident do you feel that you know what to do when your blood sugar	Other	.47871
level goes higher or lower than it should be?	Туре 2	.17882
How confident do you feel that you can judge when the changes in your illness	Other	.28868
mean you should visit the doctor?	Туре 2	.16321
How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?	Other	1.00000
	Type 2	.15902

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of
		F	Sig.	t
How confident do you feel that you can eat your meals every 4 to 5 hours	Equal variances assumed	.045	.833	093
every day, including breakfast every day?	Equal variances not assumed			082
How confident do you feel that you can follow your diet when you have to	Equal variances assumed	1.634	.212	-2.026
prepare or share food with other people who do not have diabetes?	Equal variances not assumed			-2.619
How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?	Equal variances assumed	.700	.411	-2.001
	Equal variances not assumed			-2.422
How confident do you feel that you can exercise 15	Equal variances assumed	.195	.662	-1.172
to 30 minutes, 4 to 5 times a week?	Equal variances not assumed			-1.135
How confident do you feel that you can do something to prevent your	Equal variances assumed	.217	.646	022
blood sugar level from dropping when you exercise?	Equal variances not assumed			021
How confident do you feel that you know what to do	Equal variances assumed	.001	.975	147
level goes higher or lower than it should be?	Equal variances not assumed			133
How confident do you feel that you can judge when	Equal variances assumed	1.164	.291	.264
mean you should visit the doctor?	Equal variances not assumed			.328
How confident do you feel that you can control your diabetes so that it does	Equal variances assumed	1.563	.223	764
not interfere with the things you want to do?	Equal variances not assumed			453

Independent Samples Test

		t-test for Equality of Means		
		df	Signit One-Sided p	icance Two-Sided p
How confident do you feel that you can eat your	Equal variances assumed	26	.463	.926
every day, including breakfast every day?	Equal variances not assumed	3.745	.469	.939
How confident do you feel that you can follow your diet when you have to	Equal variances assumed	26	.027	.053
prepare or share food with other people who do not have diabetes?	Equal variances not assumed	5.304	.022	.045
How confident do you feel that you can choose the appropriate foods to eat	Equal variances assumed	26	.028	.056
when you are hungry (for example, snacks)?	Equal variances not assumed	4.878	.031	.061
How confident do you feel that you can exercise 15	Equal variances assumed	26	.126	.252
to 30 minutes, 4 to 5 times a week?	Equal variances not assumed	3.975	.160	.320
How confident do you feel that you can do something to prevent your	Equal variances assumed	25	.491	.983
blood sugar level from dropping when you exercise?	Equal variances not assumed	4.016	.492	.984
How confident do you feel that you know what to do when your blood sugar	Equal variances assumed	24	.442	.885
level goes higher or lower than it should be?	Equal variances not assumed	3.885	.450	.900
How confident do you feel that you can judge when the changes in your illness.	Equal variances assumed	25	.397	.794
mean you should visit the doctor?	Equal variances not assumed	5.153	.378	.756
How confident do you feel that you can control your diabetes so that it does	Equal variances assumed	24	.226	.452
not interfere with the things you want to do?	Equal variances not assumed	1.051	.363	.726

	aroup ora			
	How long have you been diagnosed with diabetes?	N	Mean	Std. Deviation
How confident do you feel that you can eat your meals every 4 to 5 hours	Less than 2 months	12	2.4167	.79296
every day, including breakfast every day?	2 years and more	17	2.2353	.83137
How confident do you feel that you can follow your diet when you have to	Less than 2 months	12	2.2500	.86603
prepare or share food with other people who do not have diabetes?	2 years and more	17	2.2353	.83137
How confident do you feel that you can choose the appropriate foods to est	Less than 2 months	12	2.0833	.90034
when you are hungry (for example, snacks)?	2 years and more	17	2.2353	.66421
How confident do you feel that you can exercise 15	Less than 2 months	12	2.0833	.99620
to 30 minutes, 4 to 5 times a week?	2 years and more	17	2.2941	.91956
How confident do you feel that you can do something to prevent your	Less than 2 months	11	2.1818	.98165
blood sugar level from dropping when you exercise?	2 years and more	17	2.2353	.90342
How confident do you feel that you know what to do when your blood sugar	Less than 2 months	10	2.0000	.94281
level goes higher or lower than it should be?	2 years and more	17	2.4118	.79521
How confident do you feel that you can judge when the changes in your illness	Less than 2 months	11	11 2.5455 .68	.68755
mean you should visit the doctor?	2 years and more	17	2.3529	.78591
How confident do you feel that you can control your disbetes so that it does	Less than 2 months	11	2.3636	.80904
not interfere with the things you want to do?	2 years and more	16	2.4375	.81394

Group Statistics

Group Statistics

	How long have you been diagnosed with diabetes?	Std. Error Mean
How confident do you feel that you can eat your meals every 4 to 5 hours	Less than 2 months	.22891
every day, including breakfast every day?	2 years and more	.20164
How confident do you feel that you can follow your diet when you have to	Less than 2 months	.25000
prepare or share food with other people who do not have diabetes?	2 years and more	.20164
How confident do you feel that you can choose the appropriate foods to eat	Less than 2 months	.25990
when you are hungry (for example, snacks)?	2 years and more	.16109
How confident do you feel that you can exercise 15	Less than 2 months	.28758
to 30 minutes, 4 to 5 times a week?	2 years and more	.22303
How confident do you feel that you can do something to prevent your	Less than 2 months	.29598
blood sugar level from dropping when you exercise?	2 years and more	.21911
How confident do you feel that you know what to do when your blood sugar	Less than 2 months	.29814
level goes higher or lower than it should be?	2 years and more	.19287
How confident do you feel that you can judge when the changes in your illness	Less than 2 months	.20730
mean you should visit the doctor?	2 years and more	.19061
How confident do you feel that you can control your diabetes so that it does	Less than 2 months	.24393
not interfere with the things you want to do?	2 years and more	.20349

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of	
		F	Sig.	t	
How confident do you feel that your can eat your	Equal variances assumed	.081	.779	.590	
every day, including breakfast every day?	Equal variances not assumed			.595	
How confident do you feel that you can follow your diet when you have to	Equal variances assumed .046 .831 .046 Equal variances not .046				
prepare or share food with other people who do not have diabetes?	Equal variances not assumed			.046	
How confident do you feel that you can choose the	Equal variances assumed	variances assumed 2.373 .135524 variances not red497			
when you are hungry (for example, snacks)?	Equal variances not assumed			497	
How confident do you feel that you can exercise 15	Equal variances assumed	.535	.471	588	
to 30 minutes, 4 to 5 times a week?	Equal variances not assumed			579	
How confident do you feel that you can do something to prevent your	Equal variances assumed	assumed .428 .519148			
blood sugar level from dropping when you exercise?	Equal variances not assumed			145	
How confident do you feel that you know what to do	Equal variances assumed	.513	.480	-1.214	
level goes higher or lower than it should be?	Equal variances not assumed			-1.160	
How confident do you feel that you can judge when	Equal variances assumed	.669	.421	.664	
mean you should visit the doctor?	Equal variances not assumed			.684	
low confident do you fee hat you can eat your meakfast every do 5 hours wreakfast every day? I ow confident do you fee hat you can follow your is the you can follow your is do you fee list vhen you have to meak you can house the propriate foods to eat use diabeles? I ow confident do you fee hay you can house the propriate foods to eat hay you can house the propriate foods to eat the you can house the propriate foods to eat the you can house the propriate foods to eat hay you can house the propriate foods to eat hay you can house the propriate foods to eat hay you can food to you fee had you can do you fee had you know what to do hay confident do you fee had you know what to do had you ran do you fee had you an food sugar evel goes higher or lowe he changes in your lines near you should via the heat you can do you late heat you can contof your to mortifere with the hings you want to do?	Equal variances assumed	.004	.950	232	
not interfere with the things you want to do?	Equal variances not assumed			233	

Independent Samples Test

		t-tes	t for Equality o	of Means
		df	Signit One-Sided p	licance Two-Sided p
How confident do you feel that you can eat your	Equal variances assumed	27	.280	.560
every day, including breakfast every day?	Equal variances not assumed	24.537	.279	.558
How confident do you feel that you can follow your diet when you have to	Equal variances assumed	27	.482	.964
prepare or share food with other people who do not have diabetes?	Equal variances not assumed	23.213	.482	.964
How confident do you feel that you can choose the appropriate foods to eat	Equal variances assumed	27	.302	.605
when you are hungry (for example, snacks)?	Equal variances not assumed	19.134	.312	.625
How confident do you feel that you can exercise 15	Equal variances assumed	27	.281	.562
to 30 minutes, 4 to 5 times a week?	Equal variances not assumed	22.592	.284	.568
How confident do you feel that you can do something to prevent your	Equal variances assumed	26	.442	.884
blood sugar level from dropping when you exercise?	Equal variances not assumed	20.177	.443	.886
How confident do you feel that you know what to do when your blood sugar	Equal variances assumed	25	.118	.236
level goes higher or lower than it should be?	Equal variances not assumed	16.485	.131	.263
How confident do you feel that you can judge when the changes in your illness	Equal variances assumed	26	.256	.513
mean you should visit the doctor?	Equal variances not assumed	23.540	.250	.501
How confident do you feel that you can control your diabates so that it does	Equal variances assumed	25	.409	.818
not interfere with the things you want to do?	Equal variances not assumed	21.741	.409	.818

ANOVA Results

Descriptives How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day? 95% Confidence Interval for Mean Mean Std. Deviation Std. Error Lower Bound Upper Bound Ν Less than 6.4% 6.4%-8.4% 8.5%-10% 999.00 Total 2 2.0000 12 2.3333 1.41421 1.00000 .88763 .25624 -10.7062 14.7062 1.7694 2.8973 9 2.2222 .83333 .27778 1.5817 2.8628

99.00	6	2.5000	.54772	.22361	1.9252	3.0748
otal	29	2.3103	.80638	.14974	2.0036	2.6171

Descriptives

How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?

	Minimum	Maximum
Less than 6.4%	1.00	3.00
6.4%-8.4%	1.00	3.00
8.5%-10%	1.00	3.00
999.00	2.00	3.00
Total	1.00	3.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?	Based on Mean	1.538	3	25
	Based on Median	.301	3	25
	Based on Median and with adjusted df	.301	3	15.526
	Based on trimmed mean	1.448	3	25

Tests of Homogeneity of Variances

		Sig.
How confident do you feel	Based on Mean	.229
that you can eat your meals every 4 to 5 hours	Based on Median	.824
every day, including breakfast every day?	Based on Median and with adjusted df	.824
	Based on trimmed mean	.253

ANOVA

How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.485	3	.162	.228	.876
Within Groups	17.722	25	.709		
Total	18.207	28			

How confident do you feel that you can eat your meals every 4 to
5 hours every day, including breakfast every day?

ANOVA Effect Sizes ^{a,b}				
			95% Confide	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?	Eta-squared	.027	.000	.114
	Epsilon-squared	090	120	.007
	Omega-squared Fixed- effect	087	115	.007
	Omega-squared Random-	027	036	.002

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

b. Negative but less biased estimates are retained, not rounded to zero.

	Current A1c (American Diabetes Association)	N	Subset for alpha = 0.05 1
Student-Newman-Keuls ^{a,b}	Less than 6.4%	2	2.0000
	8.5%-10%	9	2.2222
	6.4%-8.4%	12	2.3333
	999.00	6	2.5000
	Sig.		.802

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.645.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

How confident do you feel that you can follow your diet when you have to prepare or share food with other people who (95% Confidence Interval for

						Me	an
	N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound	
Less than 6.4%	2	3.0000	.00000	.00000	3.0000	3.0000	
6.4%-8.4%	12	2.2500	.86603	.25000	1.6998	2.8002	
8.5%-10%	9	2.2222	.97183	.32394	1.4752	2.9692	
999.00	6	2.0000	.63246	.25820	1.3363	2.6637	
Total	29	2.2414	.83045	.15421	1.9255	2.5573	

Descriptives How confident do you feel that you can follow your diet when you have to prepare or share food with other people who

	Minimum	Maximum
Less than 6.4%	3.00	3.00
6.4%-8.4%	1.00	3.00
8.5%-10%	1.00	3.00
999.00	1.00	3.00
Total	1.00	3.00

e food with to do not

How confident do you feel that you can follow your diet when you have to prepare or share food with

Tests of Homogeneity of Variances

Levene Statistic

4.498

1.263

1.263

df1

3

3 25

3

df2

3 15.604

25

25

ANOVA How confident do you feel that you can follow your diet when you have to prepare or share food with other people who

	Sum of Squares	ar	mean square	F	sig.
Between Groups	1.505	3	.502	.704	.558
Within Groups	17.806	25	.712		
Total	19.310	28			

ANOVA Effect Sizes^{a,b}

4.405 Tests of Homogeneity of Variances

		Sig.
How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do not have diabates?	Based on Mean	.012
	Based on Median	.308
	Based on Median and with adjusted df	.321
	Based on trimmed mean	.013

Based on Mean

Based on Median

Based on Median and with adjusted df

Based on trimmed mean

			95% Confide	nce Interval
		Point Estimate	Lower	Upper
How confident do you feel that you can follow your diet when you have to orepare or share food with other people who do not have diabetes?	Eta-squared	.078	.000	.231
	Epsilon-squared	033	120	.139
	Omega-squared Fixed- effect	032	115	.135
	Omega-squared Random- effect	010	036	.049

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model. b. Negative but less biased estimates are retained, not rounded to zero.

How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do not have diabetes?

	Current A1c (American		Subset for alpha = 0.05
	Diabetes Association)	N	1
Student-Newman-Keuls ^{a,b}	999.00	6	2.0000
	8.5%-10%	9	2.2222
	6.4%-8.4%	12	2.2500
	Less than 6.4%	2	3.0000
	Sig		.294

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.645.

b. The group sizes are unequal. The harmoni used. Type I error levels are not guarantee

Descriptives

How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?

				Mean	
N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound
2	3.0000	.00000	.00000	3.0000	3.0000
12	2.2500	.75378	.21760	1.7711	2.7289
9	2.1111	.78174	.26058	1.5102	2.7120
6	1.8333	.75277	.30732	1.0433	2.6233
29	2.1724	.75918	.14098	1.8836	2.4612
	N 2 12 9 6 29	N Mean 2 3.0000 12 2.2500 9 2.1111 6 1.8333 29 2.1724	N Mean Std. Deviation 2 3.0000 .00000 12 2.2500 .75378 9 2.1111 .78174 6 1.8333 .75277 29 2.1724 .75918	N Mean Std. Deviation Std. Error 2 3.0000 .00000 .00000 12 2.2500 .75378 .21760 9 2.1111 .78174 .26058 6 1.8333 .75277 .30732 29 2.1724 .75918 1.4098	N Mean Std. Deviation Std. Error Lower Bound 2 3.0000 .00000 .00000 3.0000 12 2.2500 .75378 .21760 1.7711 9 2.1111 .78174 .26058 1.5102 6 1.8333 .75277 .30732 1.0433 29 2.1724 .75918 .14098 1.8366

Descriptives How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?

	Minimum	Maximum
Less than 6.4%	3.00	3.00
6.4%-8.4%	1.00	3.00
8.5%-10%	1.00	3.00
999.00	1.00	3.00
Total	1.00	3.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel	Based on Mean	1.341	3	25
that you can choose the	Based on Median	.756	3	25
when you are hungry (for example, snacks)?	Based on Median and with adjusted df	.756	3	23.945
	Based on trimmed mean	1.407	3	25

Tests of Homogeneity of Variances

		Sig.
low confident do you feel	Based on Mean	.284
hat you can choose the	Based on Median	.529
when you are hungry (for example, snacks)?	Based on Median and with adjusted df	.530
	Record on trimmed mean	264

IC	mean o	of the	group	sizes	IS	
ed						

ANOVA

How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.166	3	.722	1.292	.299
Within Groups	13.972	25	.559		
Total	16.138	28			

ANOVA Effect Sizes^{a,b}

			95% Confide	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel	Eta-squared	.134	.000	.311
that you can choose the	Epsilon-squared	.030	120	.228
when you are hungry (for example, snacks)?	Omega-squared Fixed- effect	.029	115	.222
	Omega-squared Random- effect	.010	036	.087

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model. b. Negative but less biased estimates are retained, not rounded to zero.

Descriptives

How confident do	o you feel t	hat you car	n exercise 15 to 3	30 minutes,	4 to 5 times a we 95% Confiden Me	ek? ce Interval for ean
	N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound
Less than 6.4%	2	2.5000	.70711	.50000	-3.8531	8.8531
6.4%-8.4%	12	2.4167	.90034	.25990	1.8446	2.9887
8.5%-10%	9	2.1111	1.05409	.35136	1.3009	2.9214
999.00	6	1.8333	.98319	.40139	.8015	2.8651
Total	29	2.2069	.94034	.17462	1.8492	2.5646
			Descripti	ves		

How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?

	Minimum	Maximum
Less than 6.4%	2.00	3.00
6.4%-8.4%	1.00	3.00
8.5%-10%	1.00	3.00
999.00	1.00	3.00
Total	1.00	3.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	
rou feel	Based on Mean	1.621	3	25	
se 15	Based on Median	.285	3	25	
	Based on Median and with adjusted df	.285	3	20.979	

Based on trimmed mean 1.480 3 Tests of Homogeneity of Variances

25

		Sig.
How confident do you feel	Based on Mean	.210
that you can exercise 15 to 30 minutes 4 to 5	Based on Median	.836
times a week?	Based on Median and with adjusted df	.836
	Based on trimmed mean	.244

How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?

	Current A1c (American Diabetes Association)	N	Subset for alpha = 0.05 1
Student-Newman-Keuls ^{a,b}	999.00	6	1.8333
	8.5%-10%	9	2.1111
	6.4%-8.4%	12	2.2500
	Less than 6.4%	2	3.0000
	Sig.		.108

Means for groups in homogeneous subsets are displayed. a. Uses Harmonic Mean Sample Size = 4.645.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

ANOVA

How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.620	3	.540	.583	.631
Within Groups	23.139	25	.926		
Total	24.759	28			

ANOVA Effect Sizes^{a,b}

			95% Confide	nce Interval
		Point Estimate	Lower	Upper
How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?	Eta-squared	.065	.000	.209
	Epsilon-squared	047	120	.115
	Omega-squared Fixed- effect	045	115	.111
	Omega-squared Random- effect	015	036	.040

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

b. Negative but less biased estimates are retained, not rounded to zero.

Descriptives How confident do you feel that you can do something to prevent your blood sugar level from dropping when you exercise

					95% Confidence Interval fo Mean	
	N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound
Less than 6.4%	2	2.0000	1.41421	1.00000	-10.7062	14.7062
6.4%-8.4%	12	2.1667	1.02986	.29729	1.5123	2.8210
8.5%-10%	9	113.3333	332.12573	110.70858	-141.9611	368.6278
999.00	6	1.8333	.75277	.30732	1.0433	2.6233
Total	29	36.5862	185,10065	34.37233	-33.8223	106,9947

Descriptives

How confident do you feel that you can do something to prevent your blood sugar level from dropping when you exercise

Levene Statistic

Sig.

.553

.571

.129

3.721

.714

.714

2.075

df2 25

25

df1

3

3 25 3 8.000

3

	Minimum	Maximum
Less than 6.4%	1.00	3.00
6.4%-8.4%	1.00	3.00
8.5%-10%	1.00	999.00
999.00	1.00	3.00
Total	1.00	999.00

ent do you feel Based on Mean

How confident do you feel that you can do something to prevent your blood sugar level from Based on Median Based on Median

Based on Median

Based on Median and with adjusted df

Based on trimmed mean

Based on Median and with adjusted df

Based on trimmed mean

Tests of Homogeneity of Variances

Tests of Homogeneity of Variances

How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?

	Current A1c (American Diabetes Association)	N	Subset for alpha = 0.05 1
Student-Newman-Keuls ^{a,I}	999.00	6	1.8333
	8.5%-10%	9	2.1111
	6.4%-8.4%	12	2.4167
	Less than 6.4%	2	2.5000
	Sig.		.719

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

How confident do you feel that you can do something to prevent your blood sugar level from dropping when you exercise?

	Current A1c (American Diabetes Association)	N	Subset for alpha = 0.05 1
Student-Newman-Keuls ^{a,b}	999.00	6	1.8333
	Less than 6.4%	2	2.0000
	6.4%-8.4%	12	2.1667
	8.5%-10%	9	113.3333
	Sig.		.803

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.645.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.645.

ANOVA

How confident do you feel that you can do something to prevent your blood sugar level from dropping when you exercise

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	76866.534	3	25622.178	.726	.546
Within Groups	882476.500	25	35299.060		
Total	959343.034	28			

ANOVA Effect Sizes^{a,b}

			95% Confid	ence Interva
		Point Estimate	Lower	Upper
How confident do you feel	Eta-squared	.080	.000	.235
something to prevent your	Epsilon-squared	030	120	.143
blood sugar level from dropping when you exercise?	Omega-squared Fixed- effect	029	115	.139
exerciser	Omega-squared Random-	010	036	.051

How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be?

					95% Confidence Interval for Mean		
	N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound	
Less than 6.4%	2	2.0000	1.41421	1.00000	-10.7062	14.7062	
6.4%-8.4%	12	85.4167	287.70517	83.05333	-97.3825	268.2158	
8.5%-10%	9	113.1111	332.20944	110.73648	-142.2477	368.4699	
999.00	6	2.0000	.89443	.36515	1.0614	2.9386	
Total	29	71 0000	257 04155	47 73142	-26 7734	168 7734	

Descriptives

How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be?

	Minimum	Maximum
Less than 6.4%	1.00	3.00
6.4%-8.4%	1.00	999.00
8.5%-10%	1.00	999.00
999.00	1.00	3.00
Total	1.00	999.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel	Based on Mean	1.278	3	25
that you know what to do	Based on Median	.260	3	25
level goes higher or lower than it should be?	Based on Median and with adjusted df	.260	3	18.612
	Based on trimmed mean	.679	3	25

Tests of Homogeneity of Variances

		Sig.
How confident do you feel	Based on Mean	.303
that you know what to do	Based on Median	.853
level goes higher or lower than it should be?	Based on Median and with adjusted df	.853
	Based on trimmed mean	.573

Descriptives

How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor? 95% Confidence Interval for

					IVIE	ean
	N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound
Less than 6.4%	2	2.5000	.70711	.50000	-3.8531	8.8531
6.4%-8.4%	12	85.4167	287.70549	83.05342	-97.3827	268.2160
8.5%-10%	9	2.5556	.72648	.24216	1.9971	3.1140
999.00	6	2.3333	.51640	.21082	1.7914	2.8753
Total	29	36.7931	185.06010	34.36480	-33.6000	107.1862

Descriptives

How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor?

	Minimum	Maximum
Less than 6.4%	2.00	3.00
6.4%-8.4%	1.00	999.00
8.5%-10%	1.00	3.00
999.00	2.00	3.00
Total	1.00	999.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
fident do you feel can judge when ges in your illness u should visit the	Based on Mean	2.134	3	25
	Based on Median	.446	3	25
	Based on Median and with adjusted df	.446	3	11.000
	Based on trimmed mean	.965	3	25
	Tests of Homogenei	ty of Variances	5	
fident do vou feel	Racad on Maan	121		
nucint uo you icci	Dased off mean	.121		

How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor?	Based on Mean	.121
	Based on Median	.722
	Based on Median and with adjusted df	.725
	Based on trimmed mean	.425

How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor? Sum of Squares df Mean Square F Sig.

	oun or oquares	u.	mean oquare		oig.
Between Groups	48397.786	3	16132.595	.443	.724
Within Groups	910524.972	25	36420.999		
Total	958922.759	28			

How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be?

Current A1c (American Diabetes Association)

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

999.00

6.4%-8.4%

8.5%-10%

Sig.

Means for groups in homogeneous subsets are displayed. a. Uses Harmonic Mean Sample Size = 4.645.

Student-Newman-Keuls^{a,b} Less than 6.4%

Subset for alpha = 0.05

1

2.0000

2.0000

85.4167

113.1111

.921

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2

6

12

9

ANOVA Effect Sizes^{a,b}

ANOVA

				95% Confide	ence Interval
			Point Estimate	Lower	Upper
How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor?	How confident do you feel	Eta-squared	.050	.000	.180
	Epsilon-squared	063	120	.081	
	Omega-squared Fixed- effect	061	115	.079	
		Omega-squared Random- effect	020	036	.028

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model. b. Negative but less biased estimates are retained, not rounded to zero

How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor?

	Current A1c (American		Subset for alpha = 0.05
	Diabetes Association)	N	1
Student-Newman-Keuls ^{a,b}	999.00	6	2.3333
	Less than 6.4%	2	2.5000
	8.5%-10%	9	2.5556
	6.4%-8.4%	12	85.4167
	Sig.		.910

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.645.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?

					Me	an
	N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound
Less than 6.4%	2	2.5000	.70711	.50000	-3.8531	8.8531
6.4%-8.4%	12	85.5000	287.67896	83.04576	-97.2825	268.2825
8.5%-10%	9	113.1111	332.20944	110.73648	-142.2477	368.4699
999.00	6	2.3333	.81650	.33333	1.4765	3.1902
Total	29	71.1379	257.00316	47.72429	-26.6208	168.8967

Descriptives

How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?

	Minimum	Maximum
Less than 6.4%	2.00	3.00
6.4%-8.4%	1.00	999.00
8.5%-10%	1.00	999.00
999.00	1.00	3.00
Total	1.00	999.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	
How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?	Based on Mean	1.280	3	25	
	Based on Median	.261	3	25	
	Based on Median and with adjusted df	.261	3	18.613	
	Record on trimmod mean	690	2	25	

Tests of Homogeneity of Variances

		Sig.
How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?	Based on Mean	.303
	Based on Median	.853
	Based on Median and with adjusted df	.853
	Record on trimmod moon	572

ANOVA
ANOVA

nt do you feel that you can control your diabetes so that it does not interfere with the thing

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	56157.726	3	18719.242	.261	.853
Within Groups	1793259.722	25	71730.389		
Total	1849417.448	28			

ANOVA Effect Sizes^{a,b}

			95% Confid	ence Interva
		Point Estimate	Lower	Upper
How confident do you feel	Eta-squared	.030	.000	.127
that you can control your diabetes so that it does	Epsilon-squared	086	120	.022
not interfere with the things you want to do?	Omega-squared Fixed- effect	083	115	.021
	Omega-squared Random- effect	026	036	.007

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model. b. Negative but less biased estimates are retained, not rounded to zero.

Descriptives How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?

	N	Mean	Std. Deviation	Std. Error	Confidence
Endocrinologist or referral from another healthcare provider	10	2.5000	.70711	.22361	1.9942
PCP referral	12	2.2500	.75378	.21760	1.7711
Self-referral	6	2.0000	1.09545	.44721	.8504
999.00	1	3.0000			
Total	29	2.3103	.80638	.14974	2.0036

Descriptives

How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?

Ν

6

2

12

9

.921

Current A1c (American Diabetes Association)

Less than 6.4%

6.4%-8.4%

8.5%-10%

that you can eat your meals every 4 to 5 hours every day, including breakfast every day? 95% Confidence Interval for ... ximum 3.00

Subset for alpha = 0.05 Endocrinologistor referral from another healthcare 3.0058 1.00 3.	Maximum			
alpha = 0.05 1	Endocrinologist or referral from another healthcare provider	3.0058	1.00	3.00
2 3 3 3 3	PCP referral	2.7289	1.00	3.00
2.0000	Self-referral	3.1496	1.00	3.00
2.5000	999.00		3.00	3.00
85.5000	Total	2.6171	1.00	3.00
113.1111		Tests of Ho	mogeneit	y of Varia

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel	Based on Mean	3.590	2	25
that you can eat your meals every 4 to 5 hours	Based on Median	1.705	2	25
every day, including breakfast every day?	Based on Median and with adjusted df	1.705	2	18.194
	Based on trimmed mean	3.519	2	25

Sig. Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.645.

Student-Newman-Keuls^{a,b} 999.00

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Tests of Homogeneity of Variances

		Sig.
How confident do you feel	Based on Mean	.043
that you can eat your meals every 4 to 5 hours	Based on Median	.202
every day, including breakfast every day?	Based on Median and with adjusted df	.209
	Based on trimmed mean	.045

ANOVA

How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.457	3	.486	.725	.547
Within Groups	16.750	25	.670		
Total	18.207	28			

ANOVA Effect Sizes^{a,b}

			95% Confide	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel	Eta-squared	.080	.000	.235
that you can eat your meals every 4 to 5 hours	Epsilon-squared	030	120	.143
every day, including breakfast every day?	Omega-squared Fixed- effect	029	115	.139
	Omega-squared Random- effect	010	036	.051

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

b. Negative but less biased estimates are retained, not rounded to zero

Descriptives

w confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?

	N	Mean	Std. Deviation	Std. Error	Confidence Lower Bound
Endocrinologist or referral from another healthcare provider	10	2.5000	.70711	.22361	1.9942
PCP referral	12	2.2500	.75378	.21760	1.7711
Self-referral	6	2.0000	1.09545	.44721	.8504
Total	28	2.2857	.80999	.15307	1.9716

How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?

	95% Confidence Interval for		
	Upper Bound	Minimum	Maximum
Endocrinologist or referral from another healthcare provider	3.0058	1.00	3.00
PCP referral	2.7289	1.00	3.00
Self-referral	3.1496	1.00	3.00
Total	2.5998	1.00	3.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel	Based on Mean	3.590	2	25
that you can eat your meals every 4 to 5 hours	Based on Median	1.705	2	25
every day, including breakfast every day?	Based on Median and with adjusted df	1.705	2	18.194
	Based on trimmed mean	3.519	2	25

Tests of Homogeneity of Variances

		Sig.
How confident do you feel	Based on Mean	.043
w confident do you feel at you can eat your asls every 4 to 5 hours ery day, including Based on Median Based on Median and with	.202	
every day, including breakfast every day?	Based on Median and with adjusted df	.209
	Based on trimmed mean	045

ANOVA

How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.964	2	.482	.720	.497
Within Groups	16.750	25	.670		
Total	17.714	27			

Homogeneous Subsets

How confident do you feel that you can eat your meals every 4 to 5 hours every day, including breakfast every day?

	What prompted you to attend today's education class?	N	Subset for alpha = 0.05 1
Student-Newman-Keuls ^{a,b}	Self-referral	6	2.0000
	PCP referral	12	2.2500
	Endocrinologist or referral from another healthcare provider	10	2.5000
	Sig.		.428

Means for groups in homogeneous subsets are displayed. a. Uses Harmonic Mean Sample Size = 8.571.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Descriptives

How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do

	N	Mean	Std. Deviation	Std. Error	Confidence Lower Bound
Endocrinologist or referral from another healthcare provider	10	2.0000	.94281	.29814	1.3256
PCP referral	12	2.5833	.66856	.19300	2.1586
Self-referral	6	2.0000	.89443	.36515	1.0614
Total	28	2.2500	.84437	.15957	1.9226

ANOVA Effect Sizes^{a,b}

			95% Confide	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel	Eta-squared	.054	.000	.231
that you can eat your meals every 4 to 5 hours	Epsilon-squared	021	080	.170
every day, including breakfast every day?	Omega-squared Fixed- effect	020	077	.165
	Omega-squared Random-	010	037	.090

How confident do you feel that you can follow your diet when you have to prepare or share food with other people who

with other people who

·	95% Confidence Interval for Upper Bound	Minimum	Maximum
Endocrinologist or referral from another healthcare provider	2.6744	1.00	3.00
PCP referral	3.0081	1.00	3.00
Self-referral	2.9386	1.00	3.00
Total	0 5774	1 00	2.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel that you can follow your diet when you have to	Based on Mean	.983	2	25
	Based on Median	1.319	2	25
prepare or share food with other people who do not have diabetes?	Based on Median and with adjusted df	1.319	2	21.716
	Based on trimmed mean	1.079	2	25

Tests of Homogeneity of Variances

		Sig.
How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do not have diabetes?	Based on Mean	.388
	Based on Median	.285
	Based on Median and with adjusted df	.288
	Based on trimmed mean	.355

ANOVA

How confident do you feel that you	u can follow	your diet when	n you have t	o prepare or	share food

	Sum of Squares	ar	mean Square	P I	Sig.
Between Groups	2.333	2	1.167	1.724	.199
Within Groups	16.917	25	.677		
Total	19 250	27			

		Point Estimate	Lower	Upper
How confident do you feel that you can follow your diet when you have to	Eta-squared	.121	.000	.326
	Epsilon-squared	.051	080	.272
prepare or share food with other people who do not have diabetes?	Omega-squared Fixed- effect	.049	077	.265
	Omega-squared Random- effect	.025	037	.152

95% Confidence Interval

ANOVA Effect Sizes^{a,b}

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

b. Negative but less biased estimates are retained, not rounded to zero.

Homogeneous Subsets

How confident do you feel that you can follow your diet when you have to prepare or share food with other people who do not have diabetes?

	What prompted you to attend today's education		Subset for alpha = 0.05
	class?	N	1
Student-Newman-Keuls ^{a,b}	Endocrinologist or referral from another healthcare provider	10	2.0000
	Self-referral	6	2.0000
	PCP referral	12	2.5833
	Sig.		.323

means for	groups in i	nonnogeneous	Subsets ule	anopiaya
a. Uses	Harmonic	Mean Sample	Size = 8.571	

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Descriptives

How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?

	95% Confidence Interval for		
	Upper Bound	Minimum	Maximum
Endocrinologist or referral from another healthcare provider	2.6278	1.00	3.00
PCP referral	2.9284	1.00	3.00
Self-referral	2.5235	1.00	3.00
Total	2.4781	1.00	3.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?	Based on Mean	.211	2	25
	Based on Median	.196	2	25
	Based on Median and with adjusted df	.196	2	22.358
	Based on trimmed mean	.196	2	25

Tests of Homogeneity of Variances

		Sig.
How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?	Based on Mean	.811
	Based on Median	.823
	Based on Median and with adjusted df	.823
	Based on trimmed mean	.824

ANOVA

ou are hungry (for example, snacks)? How confide ent do you feel that you can choose the app riate foods to eat when

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.874	2	1.437	2.715	.086
Within Groups	13.233	25	.529		

Descriptives How confident do you feel that you can choose the appropriate f en you are hungry (for example, snac oods to eat w ks)1 95% Confidence ... Lower Bound Mean Std. Deviation Std. Error Endocrinologist or refer from another healthcare provider 10 2.1000 .73786 .23333 1.5722 2.0716 .8098 1.8791 PCP referral Self-referra 12 2.5000 6 1.6667 .67420 .81650 .19462 .33333 Total 28 2.1786 .77237 .14596

ANOVA Effect Sizes^{a,b}

			95% Confid	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel	Eta-squared	.178	.000	.388
that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?	Epsilon-squared	.113	080	.339
	Omega-squared Fixed- effect	.109	077	.331
	Omega-squared Random- effect	.058	037	.199

Homogeneous Subsets

How confident do you feel that you can choose the appropriate foods to eat when you are hungry (for example, snacks)?

	What prompted you to attend today's education		Subset for alpha = 0.05
	class?	N	1
Student-Newman-Keuls ^{a,b}	Self-referral	6	1.6667
	Endocrinologist or referral from another healthcare provider	10	2.1000
	PCP referral	12	2.5000
	Sig		064

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 8.571.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Descriptives

How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week? 95% Confidence

	Interval for		
	Upper Bound	Minimum	Maximum
Endocrinologist or referral from another healthcare provider	2.3786	1.00	3.00
PCP referral	3.1449	1.00	3.00
Self-referral	3.1985	1.00	3.00
Total	2.6098	1.00	3.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel	Based on Mean	3.916	2	25
hat you can exercise 15	Based on Median	1.627	2	25
imes a week?	Based on Median and with adjusted df	1.627	2	20.160
ow confident do you feel lat you can exercise 15 30 minutes, 4 to 5 mes a week? Based on Med Based on Med adjusted df Based on trim	Based on trimmed mean	4.152	2	25

Tests of Homogeneity of Variances

		Sig.
How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?	Based on Mean	.033
	Based on Median	.217
	Based on Median and with adjusted df	.221
	Based on trimmed mean	.028

ANOVA

How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6.067	2	3.033	4.413	.023
Within Groups	17.183	25	.687		
Total	23 250	27			

Homogeneous Subsets

How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?

	What prompted you to attend today's education class?	N	Subset for 1	alpha = 0.05 2
Student-Newman-Keuls ^{a,b}	Endocrinologist or referral from another healthcare provider	10	1.7000	
	Self-referral	6	2.1667	2.1667
	PCP referral	12		2.7500
	Sig.		.255	.158

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 8.571. b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Descriptives

How confident do you feel that you can exercise 15 to 30 minutes, 4 to 5 times a week?

					95% Confidence
	N	Mean	Std. Deviation	Std. Error	Lower Bound
Endocrinologist or referral from another healthcare provider	10	1.7000	.94868	.30000	1.0214
PCP referral	12	2.7500	.62158	.17944	2.3551
Self-referral	6	2.1667	.98319	.40139	1.1349
Total	28	2.2500	.92796	.17537	1.8902

ANOVA Effect Sizes^{a,b}

			95% Confid	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel	Eta-squared	.261	.002	.466
hat you can exercise 15	Epsilon-squared	.202	078	.423
to 30 minutes, 4 to 5 times a week?	Omega-squared Fixed- effect	.196	075	.415
	Omega-squared Random- effect	.109	036	.261

		Desc	riptives			
How confident do you feel t	hat you can	do someth	ing to prevent y	our blood su	gar level from dro	opping when you exercise
					95% Confidence	
	N	Mean	Std. Deviation	Std. Error	Lower Bound	
Endocrinologist or referral from another healthcare provider	10	1.9000	.99443	.31447	1.1886	
PCP referral	11	2.4545	.82020	.24730	1.9035	
Self-referral	6	2.3333	1.03280	.42164	1.2495	
Total	27	2.2222	.93370	.17969	1.8529	

Descriptives r blood sugar level from dropping when you exercise

How confident do you feel	that you can do s	omething to	prevent you	ur
	95% Confidence Interval for			
	Upper Bound	Minimum	Maximum	
Endocrinologist or referral from another healthcare provider	2.6114	1.00	3.00	
PCP referral	3.0056	1.00	3.00	

3.4172 1.00 3.00 2.5916 1.00 3.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel	Based on Mean	1.130	2	24
something to prevent your	Based on Median	.555	2	24
blood sugar level from dropping when you exercise?	Based on Median and with adjusted df	.555	2	19.265
	Based on trimmed mean	1.095	2	24

Tests of Homogeneity of Variances

		Sig.
How confident do you feel	Based on Mean	.340
something to prevent your	Based on Median	.581
How confident do you fee that you can do something to prevent you blood sugar level from dropping when you exercise?	Based on Median and with adjusted df	.583
	Based on trimmed mean	.351

ANOVA

low confident do you feel that you can do something to prevent your blood sugar level from dro							
	Sum of Squares	df	Mean Square	F	Sig.		
Retween Groups	1 706	2	.853	.977	.391		

Between Groups	1.706	2	.853	.977	.391
Within Groups	20.961	24	.873		
Total	22.667	26			

How confident do you feel Eta-squared that you can do something to prevent your Epsilon-squared blood sugar level from dropping when you exercise? .075 -.002 Omega-squared Fixed-effect -.002 Omega-squared Random-effect -.001 -.038

when you exercise

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

ANOVA Effect Sizes^{a,b}

Point Estimate

95% Confidence Interval Lower

.000

-.083

-.080

Upper

.268

.207

.201

.112

b. Negative but less biased estimates are retained, not rounded to zero.

Homogeneous Subsets

Total

How confident do you feel that you can do something to prevent your blood sugar level from dropping when you exercise?

	What prompted you to attend today's education class?	N	Subset for alpha = 0.05 1
Student-Newman-Keuls ^{a,b}	Endocrinologist or referral from another healthcare provider	10	1.9000
	Self-referral	6	2.3333
	PCP referral	11	2.4545
	Sig.		.456

Means for groups in homogeneous subsets are displayed. a. Uses Harmonic Mean Sample Size = 8.390.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Descriptives

How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be?							
	95% Confidence Interval for						
	Upper Bound	Minimum	Maximum				

opper bound	Minimum	maximum
2.8114	1.00	3.00
2.9694	2.00	3.00
3.1496	1.00	3.00
2.6224	1.00	3.00
	2.8114 2.9694 3.1496 2.6224	2.8114 1.00 2.9694 2.00 3.1496 1.00 2.6224 1.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel that you know what to do when your blood sugar	Based on Mean	17.013	2	23
	Based on Median	4.349	2	23
level goes higher or lower than it should be?	Based on Median and with adjusted df	4.349	2	18.000
	Based on trimmed mean	16.731	2	23

Tests of Homogeneity of Variances

		Sig.
How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be?	Based on Mean	<.001
	Based on Median	.025
	Based on Median and with adjusted df	.029
	Based on trimmed mean	<.001

ANOVA

How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be? df Mean Square F 01

	Sum of Squares	ar	mean Square		Sig.
Between Groups	1.815	2	.908	1.207	.317
Within Groups	17.300	23	.752		
Total	19.115	25			

		Desc	riptives		
How confident do you feel th	at you kno	w what to d	to when your blo	od sugar le	vel goes higher o 95%
	N	Mean	Std. Deviation	Std. Error	Lower Bound
Endocrinologist or referral from another healthcare provider	10	2.1000	.99443	.31447	1.3886
PCP referral	10	2.6000	.51640	.16330	2.2306
Self-referral	6	2.0000	1.09545	.44721	.8504
Total	26	2.2692	.87442	.17149	1.9160

ANOVA Effect Sizes^{a,b}

			95% Confid	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel hat you know what to do when your blood sugar evel goes higher or lower han it should be?	Eta-squared	.095	.000	.299
	Epsilon-squared	.016	087	.238
	Omega-squared Fixed- effect	.016	083	.231
	Omega-squared Random- effect	.008	040	.130

Homogeneous Subsets

How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be?

	What prompted you to attend today's education		Subset for alpha = 0.05
	class?	N	1
Student-Newman-Keuls ^{a,b}	Self-referral	6	2.0000
	Endocrinologist or referral from another healthcare provider	10	2.1000
	PCP referral	10	2.6000
	Sig.		.358

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 8.182.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Descriptives

How confident do you feel	that you can judg	e when the	changes in y
	95% Confidence Interval for		
	Upper Bound	Minimum	Maximum
Endocrinologist or referra from another healthcare provider	2.9002	1.00	3.00
PCP referral	3.0893	1.00	3.00
Self-referral	3.1985	1.00	3.00
Total	2.7416	1.00	3.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
How confident do you feel	Based on Mean	1.505	2	24
that you can judge when the changes in your illness.	Based on Median	1.572	2	24
mean you should visit the doctor?	Based on Median and with adjusted df	1.572	2	18.295
	Based on trimmed mean	1.569	2	24

Tests of Homogeneity of Variances

		Sig.
How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor?	Based on Mean	.242
	Based on Median	.228
	Based on Median and with adjusted df	.234
	Based on trimmed mean	.229

ANOVA

How confident do you feel that you can judge when the changes in your illness mean you should visit the							
	Sum of Squares	df	Mean Square	F	Sig.		
Between Groups	.888	2	.444	.773	.473		
Within Groups	13.779	24	.574				
Total	14 667	26					

Homogeneous Subsets

How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor?

	What prompted you to attend today's education		Subset for alpha = 0.05
	class?	N	1
Student-Newman-Keuls ^{a,b}	Self-referral	6	2.1667
	Endocrinologist or referral from another healthcare provider	10	2.4000
	PCP referral	11	2.6364
	Sig		425

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 8.390.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Descri	ntives	

How confident do you feel that you can judge when the changes in your illness mean you should visit the doctor?

	N	Mean	Std. Deviation	Std. Error	95% Confidence Lower Bound
Endocrinologist or referral from another healthcare provider	10	2.4000	.69921	.22111	1.8998
PCP referral	11	2.6364	.67420	.20328	2.1834
Self-referral	6	2.1667	.98319	.40139	1.1349
Total	27	2.4444	.75107	14454	2.1473

ANOVA Effect Sizes^{a,b}

			95% Confid	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel that you can judge when	Eta-squared	.061	.000	.245
	Epsilon-squared	018	083	.182
mean you should visit the doctor?	Omega-squared Fixed- effect	017	080	.176
	Omega-squared Random-	008	038	.097

		Desc	riptives			
How confident do you feel th	at you can	control yo	ur diabetes so th	at it does no	ot interfere with t	the things you want to do
	N	Mean	Std. Deviation	Std. Error	95% Confidence Lower Bound	
Endocrinologist or referral from another healthcare provider	9	2.0000	.86603	.28868	1.3343	
PCP referral	12	2.7500	.45227	.13056	2.4626	
Self-referral	5	2.2000	1.09545	.48990	.8398	
Total	26	2.3846	.80384	.15765	2.0599	

How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do

	95% Confidence Interval for		
	Upper Bound	Minimum	Maximum
Endocrinologist or referral from another healthcare provider	2.6657	1.00	3.00
PCP referral	3.0374	2.00	3.00
Self-referral	3.5602	1.00	3.00
Total	2.7093	1.00	3.00

How confid that you ca diabetes so not interfe

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2
ent do you feel	Based on Mean	5.394	2	23
n control your	Based on Median	1.843	2	23
e with the want to do?	Based on Median and with adjusted df	1.843	2	12.187
	Based on trimmed mean	5.287	2	23

Based on trimmed mean	5.287	2
Tests of Homogeneity	y of Variances	

		Sig.
How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?	Based on Mean	.012
	Based on Median	.181
	Based on Median and with adjusted df	.200
	Based on trimmed mean	.013

Homogeneous Subsets

ANOVA

How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.104	2	1.552	2.735	.086
Within Groups	13.050	23	.567		
Total	16.154	25			

		Point Estimate	Lower		
How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?	Eta-squared	.192	.000		
	Epsilon-squared	.122	087		
	Omega-squared Fixed- effect	.118	083		
	Omega-squared Random- effect	.063	040		
a Eta-squared and Englion-squared are estimated based on the fixed-offect model					

ANOVA Effect Sizes^{a,b}

b. Negative but less biased estimates are retained, not rounded to zero.

ANOVA

Within Groups Total

How confident do you feel that you know what to do when your blood sugar level goes higher or lower than it should be?

Point Estimate

95% Confidence Interval

Upper

.408

.357

.348

.210

Lower

How confident do you feel that you can control your diabetes so that it does not interfere with the things you want to do?

	What prompted you to attend today's education class?	N	Subset for alpha = 0.05 1
Student-Newman-Keuls ^{a,b}	Endocrinologist or referral from another healthcare provider	9	2.0000
	Self-referral	5	2.2000
	PCP referral	12	2.7500
	Sig.		.150

ans for groups in homoge are displayed

a. Uses Harmonic Mean Sample Size = 7.606.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Sum of Squares df Mean Square F Sig. Between Groups 56542.194 3 18847.398 .263 .852

1793427.806	25	71737.112	
1849970.000	28		

ANOVA Effect Sizes^{a,b}

			95% Confid	ence Interval
		Point Estimate	Lower	Upper
How confident do you feel that you know what to do	Eta-squared	.031	.000	.127
	Epsilon-squared	086	120	.023
evel goes higher or lower than it should be?	Omega-squared Fixed- effect	083	115	.022
	Omega-squared Random-	026	036	.007

a. Eta-squared and Epsilon-squared are estimated based on the fixed-effect model.

b. Negative but less biased estimates are retained, not rounded to zero.