APPENDIX A. DATA COLLECTION FORMS

VA-EPC Self-Monitoring of Blood Glucose Article Screener

Article ID	Reviewers: Assigned on:
Citation:	
First Author:	
Complete Q7 & Q8 on ALL forms	6. If RCT/CCT or observational study, what is
 Is the study a test of efficacy or effectiveness of SMBG alone or as part of a multi-component intervention? (Check all that apply) Alone□ 	the duration of the follow up? (Circle one) < 12 weeks/not an RCT/CCT or observational study0 (STOP) 12 weeks or greater
Multi-component. □ No. □ (STOP)	Units 01. Days 04. Years 02. Weeks 05. NR
2. Study design (Circle one) RCT/CCT	To any of the subjects identified as Veterans? (Circle one) Yes
3. Is A1c reported as an outcome? (Circle one) Yes	

VA Self-Monitoring of Blood Glucose Project-Detailed Review Form

First Author: Study Number: of Description: (Enter 'lof 1' if only one) (if more than one study) 1. Do you think that this article might include the same data as another study? Yes. (CIRCLE ONE) Yes	6
Study Number: of Description: (if more than one study) 1. Do you think that this article might include the same data as another study? Yes. (CIRCLE ONE) Yes	
1. Do you think that this article might include the same data as another study? Yes	
1. Do you think that this article might include the same data as another study? Yes	
study? Yes	
Study? appropriate? (CIRCLE ONE) Yes	
Study? appropriate? (CIRCLE ONE) Yes	
Yes	E ONE)
Yes	
If YES enter IDs: ID(s): 2. Design: RCT. CCT. Other design. 3 (STOP) Double blinding method not described Not applicable. 7. If study was randomized, did the method of randomization for concealment of allocation? Yes. No. Concealment not described. No. Concealment not described. Concealment not described. Concealment not described.	
ID(s):	3
ID(s):	<u>,)</u>
2. Design: RCT	
RCT	provid
CCT 2 Yes No Other design 3 (STOP) Concealment not described 8	
Other design	
Concealment not described	1
3. Is the study described as randomized? (CIRCLE ONE) Not applicable (not randomized)	}
)
Yes1	
No	E OVE)
4. If the study was randomized, was method of randomization Yes, reason described for all W and D	
appropriate? (CIRCLE ONE) Yes, reason described for some W and D	
Yes	
Method not described	,
Not applicable (not randomized) 9. Is the study a cross-over study design? (CIRCLE	E ONE)
Yes	1
No	2
5. Is the study described (with respect to SMBG)as: (CIRCLE ONE) Double blind	
Single blind notions	
Single blind, patient	
Cinale blind not described	
Open	
Blinding not described	

VA Self-Monitoring of Blood Glucose Project-Detailed Review Form

	ne characteristics of the patient po	opulation?	If yes, please enter the following: Weight	Units	Tinita
A. Demographic			Mean weight		<u>Units</u> 1. kilograms
	% women =	(CHECK ALL THAT APPLY)	Median weight		2. pounds
	Caucasian				_ 3. NA 4. ND
	African Ancestry		Weight Rangeto		— 999. NR
	Hispanic				
	Other (Specify:) 🗖	15. Was duration of diabetes reported?	(CIRCLE (ONE)
	Demographics not reported	□	Yes	,	JAE)
			No	0	
	ported for the following question:		If yes, please enter the following: Time	Units	
subjects' ag	es? (Enter number 999 for not reported))	Mean time		<u>Units</u>
Mean A	ge				1. Hour 5. Year 2. Day 8. ND
Median	Age		Median time		
			Time Range to	<u> </u>	4. Month 999.NR
Age Kar	ngeto				
			16. Which of the following co-morbidities were re	ported on:	
13. Was BMI rep	ported?	(CIRCLE ONE)	Myocardial infarction	(CHECK ALL TH	(AT APPLY)
Yes			CongestivelHeart Failure		
No		2	Peripheral 2ascular disease		
			Cerobrovascular disease		
	se enter the following: (Enter r	number 999 for not	Dementia		
reported)			Chronic pulmonary disease		
Mean B	MI			_	
	BMI		Rheumatologic disease		
			Peptic ulcer disease		
BMI Rai	nge to	<u></u>	Mild liver disease		
			Trempiegia or parapiegia	-	
			Renal disease		
14. Was weight	reported?		Malignancy, leukemia, lymphoma		
_		(CIRCLE ONE)	Moderate-severe liver disease		
			AIDS ¹		
1NO		<i>L</i>	۷		

VA Self-Monitoring of Blood Glucose Project-Detailed Review Form

Enter sample size and intervention/exposure data for each arm beginning with CONTROL/USUAL CARE for arm 1, then in order of first mention. For observational studies answer only columns denoted with asterisks (*):

Arm/ Group	Sample size *	Components * (check all that apply)	Total # of Visits	Frequency of SMBG	Number of Days per week	Duration of * treatment	Units *	Co-therapies(s)
1	P PY CNTRL NENTERING CASES	SMBG		Control				
2	P PY CNTRL NENTERING CASES NCOMPLETING	SMBG Exercise		GD BID TID QID QID PP Other Before/After meals NR				
3	P PY CNTRL NENTERING CASES NCOMPLETING	SMBG		GD BID PID QID BID PP Other Before/After meals NR				
4	P PY CNTRL Nentering CASES Ncompleting	SMBG		GD BID PP Other Before/After meals				
	Enter a number for N entering and N completing or enter 9999 if not reported. If observational study, circle appropriate unit of measurement: P Persons PY People years CNTRL Control CASES Cases		Enter # of visits or contact s		Enter a number 997. Variable 998. ND 999. NA	Enter a number 997. Variable 998. ND 999. NA	Enter a number 1.Hour 2.Day 3.Week 4.Month 5.Year 8.ND, 9. NA	

VA Male OP Project-Detailed Review Form- Diagnostic Studies

Outcomes

17. Please check the type of outcomes measured. For case control enter	r the
outcome that defines the study:	

	(CHECK ALL THAT APPLY)
HbA1c	
Fasting glucose	
Fructose	
BMI/Weight loss	
Fast v. meal glucose	
Health related quality of life	

Evaluation

18. When, relative to the start of the intervention, were outcomes reported?

(Enter the number/code in the appropriate box)

	Control		Intervention	
	Numbe	Units	Numb	Units
	r		er	
1 st follow-				
up				
up 2 nd follow-				
up				
up 3 rd follow-				
up				
up 4 th follow-				
up				
up 5 th follow-				
up				
up 6 th follow-				
up				
Additional				
follow-ups				

	<u>Units</u>
1. Hour	5. Year
2. Day	8. ND
3. Week	9. NA
4. Month	999. NR

Adverse Events

Auverse Events	
19. Were any of the following adverse	events mentioned?
	(Check all that apply)
Hypoglycemia	
Other adverse events	
No Adverse events	
Not described	
Not applicable	

20. Is there a reference that needs to be checked?

	(Circle one)
Yes	1
No	2
If YES, which one(s):	

(Enter reference # and/or author or 9999 if don't know.)

SMBG Project- Randomized Controlled Trials Quality Measurement

Article ID: Reviewer:		PILOT	03/14/07
First Author:			
1. Treatment Allocation		5. Was the care provider blinded?	
a. Was a method of randomization performed	1?	Yes	
Yes		No	
No		Don't know	
Don't know			
b. Was the treatment allocation concealed?			
Yes			
No		6. Was the patient blinded?	
Don't know		Yes	
		No	
		Don't know	
2. Were the groups similar at baseline regarding	g the most importan	t	
prognostic indicators?			
Yes			
		7 Ware point estimates and measures of	
No			of variability presented for the
No Don't know		primary outcome measures?	of variability presented for the
		primary outcome measures? Yes	
		primary outcome measures? Yes No	
		primary outcome measures? Yes	
Don't know		primary outcome measures? Yes No	
Don't know		primary outcome measures? Yes No	
3. Were the eligibility criteria specified? Yes		primary outcome measures? Yes No Don't know	
Jon't know		primary outcome measures? Yes No Don't know 8. Did the analysis include an intention	-to-treat analysis?
Jon't know		Primary outcome measures? Yes No Don't know 8. Did the analysis include an intention Yes	-to-treat analysis?
Jon't know		Primary outcome measures? Yes No Don't know 8. Did the analysis include an intention Yes No	-to-treat analysis?
Jon't know		Primary outcome measures? Yes No Don't know 8. Did the analysis include an intention Yes	-to-treat analysis?
3. Were the eligibility criteria specified? Yes		Primary outcome measures? Yes No Don't know 8. Did the analysis include an intention Yes No	-to-treat analysis?

APPENDIX B. PEER REVIEW COMMENTS TABLE

Peer Review Comments Table 1.

Reviewer	Section	Comment	Change		
Pogach	Background	The investigators frame the background in terms of targets and measures. I would suggest that the background by Guerci in the ASIA study frames the question better: "Theoretically, SMBG can improve compliance with recommendations on diet and exercise and medication regimens. The American Diabetes Association has recommended that the optimal frequency of SMBG for patients with type 2 diabetes should be adequate to facilitate reaching glucose goals. This hypothesis is based on the fact that lifestyle changes are facilitated by SMBG. Under these conditions, we should expect an improvement of glycemic control SMBG increases patient management costs, and because of the high prevalence of type 2 diabetes, efforts to establish the efficacy of SMBG in type 2 diabetes mellitus are of greater relevance."	This suggested change was made, however, reference to targets was kept in this revision as the key questions from VA concern targets and not general improvements in glycemic control.		
Pogach	Background	If the investigators want to include a discussion of targets, their reliance on ADA Clinical Practice Recommendations is incomplete, and needs to take into account other guidelines and be more complete in describing the ADA recommendations. The authors frame the ADA recommendations to bias the reviewer towards tight control for most. "The Association (ADA) recommends an A1c goal of <7% for "patients in general" but adds that, "for the individual patient," intensive therapy to achieve an A1c as close to normal (<6%) without hypoglycemia is the goal, although the latter recommendation is based on weaker or incomplete evidence.4". To be evidence explicit and transparent, the investigators need to note (to be evidence explicit) that multiple guidelines, including the ADA, American Geriatric Society, and VHA-DOD discuss the need for less stringent targets based upon life expectancy (AGS and VA) or age (ADA >65 years of age), comorbid conditions, and side effects (including hypoglycemia). The ADA "in general" thus refers to individuals who are younger without contraindications. Moreover, the NHLBI study permits an A1c between 7.0-7.9%(expected mean 7.5%) in the control group.	We deemphasized the focus about targets and the ADA, but retained the text about VA performance measures as targets, since the key questions given to us by VA concern efficacy at achieving target glycemic control levels.		
Aron	Introduction	This evidence review is being performed by VA. Therefore, it is quite surprising that the recommendations of the American Diabetes Association are so prominently stated. The recent article in the New York Times related to conflicts of interest in determining performance measures should give us pause. I realize that this is in the introduction and meant to provide context, but I would rather have seen studies cited, e.g., DCCT and UKPDS rather than the ADA (or any other advocacy organization).	Text about ADA has been deemphasized.		
Pogach	Background	I don't understand why performance measurement is pertinent to the introduction. Only NCQA recommends public reporting for A1c <7% (see Pogach, Engelgau, Aron JAMA 2007). Thus, I would recommend removing references to performance measures as being not relevant.	The text regarding performance measures is retained because VA's questions to us were framed in terms of target levels.		
Aron	Study Identification/ Study Selection	Some of the criteria for study inclusion were not explicit. I am referring here specifically to the statement that studies not included in other meta-analyses/reviews were included in this one. The reasons why are not included.	The reasons were indicated in Table 1, and no change was made in the text.		
Pogach	Study Identification/ Study Selection	I am not satisfied with the investigators' explanation that "we included studies rejected by Balk and/or by Welschen for a variety of reasons (italics mine)".			
Pogach	Study Identification/ Study Selection	If the investigators believe that their inclusion is still justified, in contrast to the AHRQ Evidence Synthesis (Balk report) the investigators should provide an explicit explanation of the reasons why they disagreed.			
Pogach	Study Identification/ Study Selection	The investigators frame the meta-analysis by noting that it is to address SMBG in individuals on oral hypo-glycemic medications. It is unclear to me whether the Kwan study included individuals on insulin; the Cho study did include 7 out of 40 control groups on insulin (4 insulin only) and 11 of 40 intervention group (6 insulin only). If these studies are included, this needs to be noted as a limitation of generalization of the study findings. In addition, the willingness and ability to use the internet to download meter results may prevent generalization to other populations with lower Socio-economic position.	We agree and the articles by Cho and Kwon were removed from the analysis.		
Aron	Study Identification/ Study Selection	P17. "Initial screening of the articles resulted in 13 RCTs that measured the effect of SMBG compared to a group not receiving SMBG and monitored A1c levels with at least three months of follow-up. Two were excluded; one because the trial presented duplicate data, the other because the trial compared a control group of SMBG to an intervention group of SMBG plus other components. (Figure 1)" Unfortunately, this is not the case. The Cho study states: "We performed a diabetes education program again to standardize every patient's education for diabetes management and the method and frequency of self-monitoring of blood glucose (SMBG) according to glucose control." The control group used SMBG. The only difference was that the experimental group had the internet intervention. Why is this study included?			

Peer Review Comments Table 1. Continued

Reviewer	Section	Comment	Change
Pogach	Study Identification/ Study Selection	The investigators note that "Initial screening of the articles resulted in 13 RCTs that measured the effect of SMBG compared to a group not receiving SMBG and monitored A1c levels with at least three months of follow-up. Two were excluded; one because the trial presented duplicate data, the other because the trial compared a control group of SMBG to an intervention group of SMBG plus other components. (Figure 1)." By these criteria, the Kwon (2004) and Cho (2006) articles should be excluded, since the control group and intervention group each received the same number of monitoring strips and received the same instructions on monitoring. The intervention being tested was therefore the "Internet Based Blood Glucose Monitoring System", which essentially increased the frequency of access to the diabetes team; electronic case management in a sense. It's my perspective that the investigators are obligated to remove these studies from the main analysis.	We agree and the articles by Cho and Kwon were removed from the analysis.
Pogach	Study Identification/ Study Selection	The investigators note that "Eligible study designs included controlled clinical trials, RCTs, and systematic reviews/meta- analyses. Observational studies, case reports, non-systematic reviews, letters to the editor and other similar contributions were excluded." This review separately comments on observational studies done in veterans, but not observational studies of non- veterans. The investigators need to be consistent; either remove them or separately discuss all observational studies. I suggest excluding them as not being relevant to the meta-analysis as defined. In addition, the investigators, in their criteria for inclusion, do not include observational studies. None the less, they include older retrospective VA studies. If they choose to include VA studies, they should modify their inclusion/exclusion criteria to include others. Otherwise (and given that meta- analyses of RCTs have significant limitations as well), I would exclude them.	We have revised the methods and results to indicate that the observational studies in veterans were searched for and reported on as evidence regarding the effectiveness of SMBG in the VA patient population and delivery
Aron	Study Identification/ Study Selection	P13 "Eligible study designs included controlled clinical trials, RCTs, and systematic reviews/meta-analyses. Observational studies, case reports, non-systematic reviews, letters to the editor and other similar contributions were excluded." However, in discussing studies in veterans, observational studies were included. It is not clear why they were included here and not elsewhere. The reasons should be made explicit. That also raises the question about using observational studies in non-veterans.	system, as opposed to the efficacy evidence from RCTs.
Aron	Study Identification/ Study Selection	Inconsistencies aside, it is an interesting philosophical issue what the appropriate control group should be in studies like this. Individuals with diabetes have free access to SMBG, i.e., can do it without a prescription. What is usual care in this regard?	We agree this is an interesting question. We agree that the Cho and Kwon studies aren't comparing SMBG to no SMBG, so as indicated above, we deleted these. We interpreted VA's main interest as SMBG vs. no SMBG at all.
Pogach	Data Synthesis	A significant positive aspect of this study is to adjust for baseline A1c. This is welcome, and should be commented upon in more detail (see also data synthesis).	We have added text about this.
Pogach	Data Synthesis	The reviewer's perspective is that adjusting for baseline HbA1c is an appropriate consideration and can be defended (see Bloomgarden Z et al Lower Baseline Glycemia Reduces Apparent Oral Agent Glucose-Lowering Efficacy: A meta-regression analysis Diabetes Care 2006 29: 2137-2139. This should be commented upon in greater detail.	
Aron	Data Synthesis	It is an interesting issue whether or not to adjust for baseline A1c. I would have liked to see both adjusted and unadjusted analyses.	Only unadjusted pooled results are presented in Figure 2. Figure 3 presents the pooled result of studies adjusting for baseline levels of A1c at the individual study level. The metaregression analysis assesses the relationship between baseline A1c and efficacy of SMBG. So all three kinds of analyses are already included in the report - unadjusted, adjusted at the individual study level, and adjusted at the pooled analyses level.

Peer Review Comments Table 1. Continued

Reviewer	Section	Comment	Change
Aron	Conclusions	To reiterate, it is not clear why observational studies are included and I don't see how one can draw the conclusion that veteran patients may not be receiving the full possible benefits of SMBG. I happen to agree with the conclusion, but that comes more from my experience in clinic than from these studies.	The reason for including observational VA studies has now been made clear.
Pogach	Conclusions	In multiple sections of the report the investigators state that "The results of the studies with Veterans do not negate the evidence from RCTs that the addition of SMBG and education can result in a decrease in A1c levels of about 0.3% absolute at six months and up to one year. As previously noted, I do not know why observational studies are included at all, and recommend that that the observational studies be removed.	Observational studies were included as the only available evidence of effectiveness in VA patients.
Pogach	Conclusions	The investigators, on multiple occasions state "that these studies do raise the question of whether veteran patients are receiving the full possible benefits of SMBG." It should be removed. Further, these statements indicate to me a pre-conceived bias, especially since the issue of SMBG efficacy, in individuals who are diet controlled or stable is controversial, and cannot be fully resolved by a meta-analysis. Furthermore, and this is more pertinent to the issue, the investigators indicated that "we draw no conclusion about the effect of frequency of SMBG monitoring on A1c values, and judge the strength of the evidence to be very low."	We disagree with the suggestion to remove the statement about effectiveness of SMBG in Veterans, as there is evidence to support no effectiveness.
Pogach	Future Research	One important limitation of the meta-analysis is that earlier studies from the early mid-90s used SMBG methodology that was much more inconvenient than current methodology. Glucose meters from that era required substantially more blood, transfer to the monitoring strip was more cumbersome, and data feedback from the meters less user friendly if present at all. All of these factors may have contributed to inconclusive results from early studies, and emphasizes the need for research in this area.	We have added this to future research
Pogach	Future Research	The investigators note: "The evidence is insufficient to draw conclusions about which components of SMBG (additional-education, algorithms or other techniques to adjust medication) and frequency of testing are most associated with better results. More research is needed." Agree, this limitation is important and should be better highlighted.	We added additional text on this.
Pogach	Future Research	"However, observational studies in the VA do not report differences in A1c levels between Veterans using or not using SMBG supplies. This raises the question about implementation: more research is needed to understand if implementation of SMBG in a typical VA clinic setting is sufficient for Veterans to receive the full benefit reported in clinical trials." The more pertinent issue is efficacy not effectiveness (see item 2). Please delete this statement.	We disagree, and note that VA's key question to us concerned effectiveness as well as efficacy.
Pogach	Future Research	"Additionally, data are needed about the cost-effectiveness of SMBG in a VA setting.". Unless I am mistaken doesn't cost effectiveness analysis depend upon efficacy data? This seems premature to me. Even if such data were available, it would also involve a number of assumptions that would have to be based upon Markov modeling.	We agree this would involve modeling, but disagree that such an effort is premature. Our analysis of efficacy data support that SMBG is efficacious, therefore a CEA analysis may help better determine which variables are most important in determining cost effectiveness and the identification of these important variables could then target new studies.
Pogach	Future Research	Impact of SMBG on medication adherence should be evaluated. Non-compliance with oral-antiglycemic medications is a recognized issue among veterans and among non-veterans. It is also possible the system interventions to improve adherence may not need to incorporate increased frequency of SMBG.	We have added this to future research.
Pogach	Future Research	I have noted my comments about the Cho/Kwon study design in the previous section. Nonetheless, although I have some reservations about the study design for the purpose of this meta-analysis given the author's inclusion/exclusion criteria, I think that the study design is actually more relevant to what is now considered usual care; e.g., most persons with type 2 diabetes with training in SMBG and some supplies. (Key question 4). This might be mentioned under future research; i.e., that usual care (infrequent) for SMBG be the control group for persons with diabetes on oral agents.	We added this to future research.

Peer Review Comments Table 1. Continued

Reviewer	Section	Comment	Change
Aron	Future Research	This section seems pretty generic for the most part. More problematic is that SMBG is viewed completely in isolation. Most diabetes interventions are complex and involve more than activity. Moreover, other outcomes are relevant, e.g., behavior change. Finally, what does pramlintide have to do with this? That seemed to come out of the blue.	We have revised the future research section and also deleted the reference to pramlintide.
Pogach	Future Research	I substantially disagree with the language of the research implications. "Our review of existing data support the beneficial effect of SMBG on A1c levels in the context of a clinical trial. Although improvement in A1c is modest, it is equivalent to that achieved with some of the newer medical therapies for diabetes, such as pramlintide.44,45" As noted previously, I believe that there is a bias by including the Cho and Kwan studies. However, based upon the main analysis of this study, it is probably most pertinent to note that the benefit of SMBG [including bundled interventions] for persons on oral hypoglycemic agents is similar to that found for diabetes education interventions, many of which included SMBG (Norris et al, Diabetes Care, 2002). Better designed prospective clinical trials, especially for individuals with stable glycemic control (e.g., at their target A1c) are necessary. Mentioning a specific medication is inappropriate. Please delete.	We have dropped the use of pramlintide as a reference for efficacy and have inserted the diabetes education.
Pogach	Future Research	I would recommend, as noted previously, that future research include alternative study designs to reflect the fact that SMBG is considered usual care for patients on medication (though not on diet alone).	We made this change.
Pogach	Future Research	Use of SMBG in context of VHA Health Buddy would be an appropriate area of investigation.	We added this to future research.
Pogach	Overall Evaluation	The investigators were thorough in their identification of possible trials for inclusion in their report, but the reviewer has concerns that the included randomized trials articles from Cho and Kwan did not meet the stated inclusion criteria. This introduces biases which are not fully addressed in their discussion/and conclusions. This is a significant flaw of the study as written, and it needs to be more fully addressed. If the investigators wish to justify their inclusion, then the reviewer suggests that the meta-analysis should be presented with and without these studies to permit comparison with the AHRQ evidence synthesis.	We agree that leaving in Cho and Kwon introduced biased and have therefore removed them from the analyses in this revision.

APPENDIX C. EVIDENCE TABLE

Evidence Table 1. Randomized Controlled Trials Evaluating the Self-Monitoring of Blood Glucose

LVIGOTIC	l lubi	<u> </u>	inao	IIIZGG	Delphi List Quality Criteria Arm/ Group											
Author, Year	Sample Size Enroll/ Follow- up	Dur. of Diabetes inYears	Mean Age	Mean Weight (kg) / BMI	% Women / Race	Method of Randomization Allocation Concealment Similarity at Baseline between groups	Eligibility criteria specified Outcome assessor blind Care provider blind Patients blinded	Point estimates & measures of variability for primary outcome variable Did analysis included intention to treat analysis	Sample Size entering	Components	# Visit	Freq of SMBG Times/ Week	Dur. of Tx	Outcome	Adverse Events	
						Yes	Yes	Yes	25	Exercise Counseling/Edu	20	Control	62 wks	Alc		
Wing RR et al., 1986 19	50 / 45	NR	54	98 / NR	78% / NR	No No	No No	No	25	SMBG Exercise Pt Control led	20	5.4	62 wks	Fasting Glucose BMI/Weight loss	ND	
						N	No	V.	(0)	Counseling/Edu	4	C 4 1	<i>C</i> 4			
Fontbonne A	208 /				42% /	No No	Yes No	Yes	68	Counseling/Edu	4	Control	6 mths	A1c		
et al., 1989 ²⁰	164	13	55	73 / 27	NR	Yes	No No	No	68	SMBG Counseling/Edu	4	7.5	6 mths	BMI/Weight Loss	ND	
						No	Yes	Yes	83	NR	NA	Control	1 year			
Rutten G et al., 1990 ²³	149 / 127	8.1	63	75 / NR	65% / NR	No No	No No	No	66	SMBG Dietician Counseling/Edu	Vari- able	NR	1 year	A1c BMI/Weight Loss	ND	
W 1		5				Yes	No Yes	Yes	14	Dietician Counseling/Edu	8	Control	44 wks A1c	Alc		
Muchmore DB et al., 1994 ²⁴	29 / 23		59	99 / 34	61% / NR	No	No No	Yes	15	SMBG Dietician 8	3	44 wks	BMI/Weight Loss HROOL*	ND		
						Yes	No			Counseling/Edu				TINQOL		
					70% /	No	Yes	Yes	22	NR	2	Control	4 mths	A1c		
Jaber LA et al., 1996 ²⁵	45 / 39	6	62	90 / 33	African Ancestr	No Yes	No No	No	23	SMBG Pt Controlled	NR	8	4 mths	Fasting Glucose HRQOL*	Hypogly- cemia	
					У		No			Counseling/Edu				HKQOL		
W1 : MG						No	Yes	Yes	Yes	32	Counseling/Edu	19	Control	18 mths	A1c	
Kibriya MG, et al., 1999 ²⁷	64 / 64	NR	50	60 / 24	45% / NR	No No	No No	No	32	SMBG Pt Control led	7	1	18 mths	Fasting Glucose	Hypogly- cemia	
							No			Counseling/Edu						
		5.3		89 / 31	48% / NR		Yes	Yes	Yes	110+	Counseling/Edu	6	Control	24 wks	A1c	
Schwedes U, et al., 2002 ²⁹	250 / 223		60			No Yes	No No	No	113+	SMBG Dietician Counseling/Edu	6	12	24 wks	BMI/Weight Loss HRQOL*	ND	
						No	No Yes	Yes	344+	Counseling/Edu Counseling/Edu	5	Control	6 mths			
Guerci B, et	988 /	/		83 / 30	45% / NR	No	No	ies	344	SMDC	3	Control	0 muis	A1c	Hypogly-	
al., 2003 30	689	8.1	62			Yes	No No	Yes	345+		5	6	6 mths	Fasting Glucose	Other	
Davidson	89 / 88			82.3 /	74% / African Ancestry, Hispanic, Other	No	Yes	Yes	45	Dietician Other	13	Control	6 mths	Alc		
MB, et al., 2005 ³²		5.6	50	32.5		No Yes	Yes Yes	Yes	43	SMBG Dietician	13	36	6 mths	BMI/Weight Loss	ND	
					Outel	Yes	No Yes		152	Other Usual Care	NR	Control	12 mths			
Farmer A et	453 / 453			NR /	43% /	Yes	Y es No	Yes	152	SMBG	NR NR	6	12 mths	Alc	Hypogly-	
al., 2007 ³³				3	NR	Yes	No No	Yes	151	SMBG Patient Control	NR	NR	12 mths	BMI/Weight Loss	ceima	
1 m 11 m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			****	DOOK II I	1 7 1 10 11 07 10	No entering cample size repor				•		•			

ND=Not Described, NR=Not Reported, NA=Not applicable, *HRQOL=Health Related Quality of Life, *No entering sample size reported, this is the sample size completing the trial