APPENDIX D

Evidence Tables

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 5220	Include: African-	RCT with 2 treatment		1) Usual care	6 months.	COMPLETER RESULTS:	QUALITY ASSESSMENT:
	American, diagnosed		n uc = 32	2) Intervention—		1) Metabolic control	INTERNAL VALIDITY:
	Agurs-Collins,NIDDM, ≥ 55 years Kumanyika, old, ≥ 120% of			Described as randomized?			
		2) Intervention	*O alial areat area and a ter	and culture	and 6 mos. uc: 10.0 (1.9) base 10.3 (1.9) 3 mo	uc: 10.0 (1.9) base	Yes
Ten Have &	Metropolitan weight		*9 did not complete	appropriate for		` ,	Method of randomization
Adams-	standards, HbA1c ≥		the program (7 from			11.5 (4.4) 6 mo	clearly described? Yes
Campbell,	8%.		control, 2 from	adherence to a		int: 11.0 (1.7) base	Concealment of allocation?
1997.			intervention).	healthy diet,		9.5 (1.8) 3 mo	No
	Exclude: non-		A === ==== (CD);	moderate physica	I	9.9 (2.0) 6 mo	Described as devoted blind?
	ambulatory, medical		Age means (SD):	activity at least 3		* Reported a significant between group	
	contraindications to		uc = 61(5.7)	times a week. In		difference in HbA1c at 3- and 6-months	
	program participation.		int = 62.4(5.9)	the first 3 months,		(p<0.01). Statistical test not given.	Patient blinded? No
			A a a range: EE 70	12 weekly group		2) Measures of risk:	Investigators blinded? No
			Age range: 55-79	sessions were held for an hour		,	Outcome assessors blinded?
			% Female:	with a 30 min		a) Weight (kg) means (SD):	No. of withdrawals in each
			uc: 88	discussion on		uc: 94.9 (20.1) base 96.2 (21.2) 3 mo	group stated? Yes
			int: 66	nutrition education	,	96.9 (21.6) 6 mo	group stated? res
			IIIL. 00	and then a 30 min		int: 93.3 (18.6) base	EXTERNAL VALIDITY:
			Race % not given	exercise session		90.8 (20.3) 3 mo	Pop. Described? Yes
			Nace // Hot given	in the physical		90.8 (20.3) 3 mo 90.7 (20.1) 6 mo	Intervention described well
			Baseline HbA1c	therapy area of		* Reported a significant between group	
			means (SD):	the clinic. One		difference in weight at 3- and 6-months	
			Intention to treat:	individual diet		(p<0.01). Statistical test not given.	manual? Yes
			uc: 10.0 (1.9)	counseling		(p-0.01). Statistical test not given.	Provider training described?
			int: 11.0 (1.7)	session during this	e	b) Systolic blood pressure-SBP	Yes
			111.0 (1.7)	pd. The next 3	3	means (SD):	Patients assessed for DSM
				months consisted		uc: 139 (14) base	dx? No
				of 6 bi-weekly (90		148 (24) 3 mo	ux: 140
				min) group		147 (22) 6 mo	Biases, etc:
				sessions providing	נ	int: 144 (17) base	None Noted
				additional	,	144 (21) 3 mo	
				information and		146 (21) 6 mo	
				support, with		*Reported no significant differences in	
				sharing, problem		SBP between groups at 3 and 6 mo.	
				solving. Each		Statistical test not given.	
				participant also			
				received an			
				individualized			

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 5220				weight reduction		c) Diastolic blood pressure-DBP	
Agurs-Collins Kumanyika, Ten Have & Adams- Campbell, 1997.	i,			diet. The behavioral component included topics such as relapse prevention and weight maintenance, goal setting, controlling triggers to eat and portion control. Participants were asked to keep food and exercise diaries. Spouses were encouraged to come to the interventions as well.	d	means (SD): uc: 77 (10) base 79 (8) 3 mo 80 (10) 6 mo int: 79 (10) base 78 (10) 3 mo 79 (9) 6 mo *Reported no significant differences in DBP between groups at 3 and 6 mo. Statistical test not given. (p<0.05 at 6- months) d) HDL Cholesterol means (SD): uc: 52.6 (15) base 50.9 (12.9) 3 mo 51.9 (14.2) 6 mo int: 49.2 (9.9) base 46.1 (8.1) 3 mo 46.8 (10.8) 6 mo *Reported no significant decrease in HDL for both groups at 3 and 6 mo. Statistical test not given. e) LDL Cholesterol means (SD): uc: 156.0 (47.9) base 150.1 (27.8) 3 mo 154.6 (30.7) 6 mo int: 171.9 (37) base 156.1 (32.8) 3 mo 162.4 (39.2) 6 mo *Reported no significant decrease in	
						*Reported no significant decrease in LDL for both groups at 3 and 6 mo. Statistical test not given.	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
\$ 5220 Agurs-Colling Kumanyika, Fen Have & Adams- Campbell, 1997.	5 ,					Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients		Treatment Duration	Outcomes/Results	Comments
# 460 Aikens, Kiolbasa, Sobel 1997	Include: NIDDM ≥ 1 year Exclude: comorbid medical conditions affecting metabolic or neuroendocrine function; gross medical noncompliance	RCT- single-center design with 2 groups 1) control 2) relaxation training (tx)	N=22 : n control=10 n tx=12 *No drop-outs Age mean (SD): 61 (10.2) Age range=33-83 59% Female Race %: 59- African Amer. 32- Caucasian 5- Hispanic 5- Asian Baseline GHb % means (SD): Completers: control: 12.0 (1.7) tx: 10.2 (1.9)	Relaxation group attended group sessions consisting of: 1) rationale for the practice of relaxation 2) general guidelines for encouraging relaxation and discussion of role of stress. 3) in-session therapist-guided instruction emphasizing progressive muscle relaxation 4) brief relaxing imagery component	follow-up at week 16 (f/u).	COMPLETER RESULTS: a) Metabolic control: a) GHb % means (SD): control: 12.0 (1.7) base 11.3 (1.7) f/u tx: 10.2 (1.9) base 10.2 (1.6) f/u * ANCOVA indicated no significant effect of group on Week 16GHb. b) Area under 2-hour oral- glucose- tolerance curve (AUC) means (SD): control: 32,110 (9,002) base 33,965 (8,212) post 32,167 (7,212) f/u tx: 33,493 (7,335) base 35,271 (6,286) post 35,408 (7,008) f/u *ANOVA indicated no significant effect of group on Post and Week 16 AUC 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESMENT: INTERNAL VALIDITY Described as randomized: Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. withdrawals stated? Yes, none. EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: Investigators state that baseline GHb significantly different between groups, but did not use baseline measures as covariate; very small sample

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 460 Aikens, Kiolbasa, Sobel 1997	Exclusion Criteria					4) Psychological Measures: a) Generalized distress (General Severity Index-GSI†) means (SD): con: 53.8 (11) base 55.6 (8.7) post 56.1(7.9) f/u tx: 57.5 (10) base 51.4 (8.9) post 54.1 (12) f/u *Significance not given b) Anxiety Symptoms (Symptoms Checklist- 90 Revised- SCL- 90R†) means (SD): con: 46.6 (13.3) base 50.0 (11.2) post 52.1(11.1) f/u tx: 52.5 (11.9) base 47.4 (8) post 49.8 (13.5) f/u *Significance not given c) Daily Stress (Daily Hassles†) means (SD): con: 24.3 (13.3) base 28.3 (16) post 29 (11) f/u tx: 37.4(18.8) base	†Higher scores on the GSI, SCL-90R, and Hassles scales indicate more generalized distress, anxiety symptoms and hassles respectively
						29.5(15.1) post 28.4(15.8) f/u *Significance not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2920 Anderson, Funnell, Butler, Arnold, Fitzgerald, & Feste, 1995.	Include: type II diabetes Exclude: not stated	RCT with 2 treatment conditions: 1) Intervention group (int) 2) Wait-list control group (wl)	subjects dropped out (does not	education program: designed to enhance	up completed by both groups after 12-weeks.	COMPLETER RESULTS 1) Metabolic control a) GHb % means (SD): int: 11.75 (3.01) base 11.02 (2.89) post wi: 10.82 (2.94) base 10.78 (2.59) post *t-tests indicated a significantly greater reduction in int group compared to wl (p=0.05). 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given 4) Psychological Measures: a) Self Efficacy mean Change Scores t: -Assessing satisfaction: int: 0.29 base-post wl: -0.04 base-post *t-tests indicated no significant difference. Statistical test not given. -Setting goals: int: 0.69 base-post *t-tests indicated a significant difference (p<0.001). Statistical test not given. -Solving problems: int: 0.32 base-post *t-tests indicated no significant difference. Statistical test not given. -Solving problems: int: 0.32 base-post *t-tests indicated no significant difference. Statistical test not given.	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: No measures of risk assessed; no statistical analyses reported

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2920 Anderson, Funnell, Butler, Arnold, Fitzgerald, & Feste, 1995.						-Emotional coping: int: 0.41 base-post wl: 0.12 base-post *Analysis indicated no significant difference. Statistical test not givenManaging stress: int: 0.29 base-post wl: 0.01 base-post *Analysis indicated a significant difference (p=0.05). Statistical test not given.	
						-Obtaining support:	
						t Higher scores on the Self Efficacy scales indicated higher self efficacy	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
#840 Boehm, Schlenk, Raleigh, Ronis 1993	Include: Under physician care for Type II Diabetes, Age ≥ 18 years Exclude: non-English literate	RCT-multi center design with 4 groups: 1) attention control (attention) 2) compliance 3) behavioral strategies (beh. strat.) 4) behavioral strategies with instruction (beh. strat. w/ inst.)	N=156 : n attention=41 n compliance=32 n beh.strat.=42 n beh.strat w/ inst.= 41 *does not state # of drop-outs mean age (SD): 58 (11.3) 60% Female Race % not given Baseline GHb %: Not given	& consistent follow- up by clinical nurse 2) compliance- focused on behaviors directly related to	mean treatment period= 12.8 months	COMPLETER RESULTS: 1) Metabolic control: GHb (% change mean (SD)): attention: -4.98 (26.08) compliance: -5.02 (20.37) beh. strat.: 1.73 (20.27) beh. strat. w/ inst.: 1.6 (25.93) * t-tests indicated no significant between-group differences 2) Measures of risk: Weight (% change mean (SD)): attention: 1.3 (6.97) compliance: 0.47 (6.08) beh. strat.: -1.52 (6.89) beh. strat. w/ inst.: 1.54(8.71) * t-tests indicated no significant between-group differences 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized: Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. withdrawals stated? No EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Large range in treatment duration

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3830	Include: type II diabetes, 35-70 years	RCT with 2 treatment conditions:	N = 256 n exp = 126	1) 1-yr wait list condition has	52 contact hours over 12 months.	s,1) Metabolic control: a) HbA1c % means (SD):	QUALITY ASSESSMENT: INTERNAL VALIDITY:
Brown, Garcia,	old	Experimental (exp) 1-yr. Waitlisted		usual care 2) Intervention—	Longitudinal	exp: 11.81 (3.0) base 10.6 (2.64) 3 mo	Described as randomized? Yes
Kouzekanani	Exclude: pregnant women, medical contraindications	control group receiving usual care (wl)	complete study Age means (SD): n exp = 54.7(8.2)	employed bilingua Mexican Americar nurses/dietitians. Focused on	Ito 3 years	10.8 (2.8) 6 mo 10.89 (2.56) 12 mo wl: 11.80 (3.02) base 11.22 (2.77) 3 mo	Method of randomization clearly described? No Concealment of allocation?
	*recruited from Mexican-American		n wl = 53.3 (8.3)	realistic health recommendations		12.2 (2.95) 6 mo 11.64 (2.85) 12 mo	Described as double-blind?
	community in Texas.		Age range: 35-71 % Female:	and showed videos of community		*ANCOVA indicated significant effect group on HbA1c at 6 mo (p<0.001) an 12 mo (p=0.011)	
			exp = 60 wl = 68	leaders discussing their experiences	9	b) Fasting Blood Glucose-FBG	Outcome assessors blinded?
			Race % not given	with diabetes. Focused on		means (SD): exp: 213.01 (64.06) base	No. of withdrawals in each group stated? Yes
			Baseline HbA1c % means (SD)	improving blood glucose levels rather than on		189.62 (66.97) 3 mo 185.24 (60.90) 6 mo 194.95 (63.27) 12 mo	EXTERNAL VALIDITY: Pop. Described? Yes
			exp: 11.81 (3) wl: 11.8 (3.02)	weight loss: provided rapid, frequent feedback promoted group		WI: 207.12 (71.41) base 201.01 (62.16) 3 mo 215.04 (66.81) 6 mo 210.51 (66.55) 12 mo	Intervention described well enough to reproduce? Yes Intervention codified in manual? No
				problem solving; involved support from family and		*ANCOVA indicated significant effect group on FBG at 3 mo (p=0.038), 6 m (p<0.001) and 12 mo (p=0.019)	of Provider training described?
				friends. Taught self-monitoring of		2) Measures of risk:	dx? No
				blood glucose, exercise, problem solving and food preparation demonstrations.	-	a) BMI means (SD): exp: 32.33 (5.97) base 31.9 (6.05) 3 mo 31.7 (5.84) 6 mo 32.17 (6.45) 12 mo wl: 32.12 (6.35) base 32.73 (6.84) 3 mo 32.47 (6.83) 6 mo 32.28 (6.52) 12 mo *ANCOVA indicated no significant effect of group on BMI.	Biases, etc: F/u continued for 3 years, yet did not report any longitudinal findings beyond one year.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3830 Brown, Garcia, Kouzekanan & Hanis, 2002.	i					b) Cholesterol means (SD): exp: 211.83 (45.34) base 191.39 (41.12) 3 mo 192.46 (40.34) 6 mo 189.88 (36.35) 12 mo wl: 203.57 (6.35) base 187.93 (40.84) 3 mo 185.88 (40.53) 6 mo 187.64 (42.66) 12 mo *ANCOVA indicated no significan effect of group on Cholesterol at 3 and 12 mo.	t
						3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 1440 Cabrera- Pivaral, Gondalez- Perez, Vega- Lopez et al 2000	Include: Type II diabetes Exclude: Insulin treatment	RCT with 2 groups: 1) diabetes education (con) 2) behavior modification (tx)	N= 49 n con=24 n tx= 25 Age means (SD): con: 57.8 (8.7) tx: 58.1 (12.4) % Female: con: 54.2 tx: 48 Race % not given Baseline Glucose (mg/dl) means(SD) Completers: con: 221 (83) tx: 210 (43)	Behavior modifying program consisted of the development of the patients' natural skills and abilities, encouraging communication and the exchange of ideas, and the use of various participation techniques. Program focused on changing thoughts, behaviors and feelings. Educational control patients received information about nutrients, calories, and metabolic control.	over 9 mo. period.	COMPLETER RESULTS: 1) Metabolic control: -Glucose (mg/dl) means (SD): con: 221 (83) base	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? No EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No BIASES, ETC: Statistical analyses not clearly explained; between-group results not reported

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients		Treatment Duration	Outcomes/Results	Comments
Campbell, Redman, Moffitt, et al. 1996	Include: diagnosed with NIDDM <5 years; age<80 Exclude: previous formal instruction in diabetes care; taking over 75% of maximum oral hypoglycemic dosage; terminal illness diagnosis	RCT-single-center design with 4 groups: 1) minimal(min), 2) individual education (ind), 3) group education (grp), & 4) behavioral (beh)	n grp=66 n beh=56 *56 patients did not complete study- ind 23; grp: 28; beh: 5 Age means (SD): min=58.2 (1.3) ind=56.8 (1.5) gr=58.4 (1.4) beh=60.9 (1.4) % Female: min=63 ind=42 grp=47 beh=57	1) min-2 sessions: received minimal information about diet, exercise & diabetic education 2) ind-individual sessions plus 3 day small group course: focused on diet, exercise & diabetic education 3) grp- group education sessions with information about diet, exercise & diabetic education 4) beh- nurse-taught cognitive-behavioral strategies focused or eating, exercise & smoking in individual visits ≥ 3	1	COMPLETER RESULTS: 1) Metabolic control: HbA1 (% change mean (SD)): min= -3.5 (0.6) 3 mo	manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Different attrition rates across groups: min=0%, ind=40% by mo, grp=42% by 12 mo beh=9% by 12 mo; investigators note no control for provider

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 620 Campbell, Redman, Moffitt, et al. 1996	Exclusion Criteria					b) Systolic blood pressure (% change mean (SD)): min= -3.4(3.5) 3 mo	•
						effect of group on Diastolic blood pressure at 12 mo: p= .022	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 620						3) Events:	
Campbell, Redman, Moffitt, et al. 1996						a) Health care utilization: -Consulted Ophthalmologist (%) min= 63 3 mo 79 6 mo ind= 67 3 mo 85 6 mo 97 12 mo grp= 50 3 mo 82 6 mo 95 12 mo beh= 57 3 mo 78 6 mo 89 12 mo * Chi square indicated no significant	
						effect of group at 6 mo and 12 mo -Consulted Podiatrist (%) min= 12 3 mo 27 6 mo ind= 10 3 mo 33 6 mo 55 12 mo grp= 21 3 mo 53 6 mo 73 12 mo beh= 43 3 mo 65 6 mo 74 12 mo * Chi square indicated a significant effect of group at 3 mo (p=.003) and mo (p=.005)	6
						b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3400 Campbell, Barth, Gosper, Jupp, Simons, & Chisolm, 1990.	effects of an intensive educational approach to dietary change in NIDDM.		N = 70 n con = 29 n del = 33 *8 subjects dropped out. Age mean(SD): con = 59(9) del = 58(9) % Female: con = 41.4 int = 45.5 Race % not given Baseline Fasting Blood Glucose (mM); means (SD): con: 8.9 (2.1) del: 9.7 (2.8)	diabetes, diabetes complications, and diet, exercise, and food composition. 2) Intensive program—included longer, more in-depth sessions on diet, podiatry, cognitive-motivation components,	Intensive—11 s weeks (total 22 thrs) Both had 1 month and 3 month follow-up	1) Metabolic control -Fasting Blood Glucose (mM) means (SD): con: 8.9 (2.1) base 9.2 (3.4) 1 mo 9.5 (3.4) 3 mo 8.3 (2.7) 6 mo del: 9.7 (2.8) base 9.4 (2.7) 1 mo 9.1 (3.0) 3 mo 9.6 (2.9) 6 mo *RM-ANCOVA indicated no significant differences in fasting blood glucose between groups over time (=0.7). 2) Measures of risk: a) Body Mass Index-BMI means (SD): con: 32.0 (5.5) base 31.5 (5.6) 1 mo 31.2 (5.4) 3 mo 31.1 (5.1) 6 mo del: 30.4 (4.8) base 29.5 (4.7) 1 mo 29.6 (4.5) 3 mo 29.6 (4.6) 6 mo *RM-ANCOVA indicated no significant differences between groups over time (p=0.28). b) Total Cholesterol means (SD): con: 6.5 (1.1) base 6.5 (1.4) 1 mo 6.3 (1.2) 3 mo 6.5 (1.0) 6 mo del: 7.4 (1.2) base 6.6 (1.1) 1 mo 6.8 (1.1) 3 mo 6.6 (1.0) 6 mo *RM-ANCOVA indicated a significant difference between groups over time (p=0.007).	Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind?

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3400 Campbell, Barth, Gosper, Jupp, Simons, & Chisolm, 1990.						b) HDL-Cholesterol means (SD): con: 1.2 (0.2) base 1.1 (0.2) 1 mo 1.2 (0.2) 3 mo 1.1 (0.2) 6 mo del: 1.1 (0.2) base 1.1 (0.2) 1 mo 1.2 (0.2) 3 mo 1.1 (0.3) 6 mo *RM-ANCOVA indicated no significated ifferences between groups over time (p=0.27).	
						3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
Frederick, Julian, Cryer, Herrman, Richards &	Include: IDDM ≥ 2 years since diagnosis insulin usage since diagnosis; using self- measurement of blood glucose Exclude: history of heart disease, hypertension, seizure activity, or severe psychiatric disturbance; chronic medication other than insulin	1) Control (con) 2) Standard BGAT d(sta) 3) Intensive BGAT (int)	N = 39 n con = 14 n sta = 13 n int = 12 *withdrawals not stated Age means: Intended to treat: con = 33.8 sta = 33.7 int = 31.1 % Female: Intended to treat: con = 57.1 sta = 61.5 int = 66.7 Race % not given Baseline HbA1 means: Intended to treat: Con = 11.4 Sta = 10.4 Int = 12.8	1) Standard BGAT—7 weekly classes with readings and BGAT with readings and homework exercises having to do with BGAT manual, BG symptoms, how insulin, food, and exercise effects BG. Daily systematic recordings of internal and external cues of BG. 2) Intensive BGAT—during hospitalization, subjects were provided with immediate BG feedback while hyper and hypoglycemic. At these times, subjects describe their experiences on audio tape, rated perceived symptoms on a checklist, estimated BG level and then were told actual BG level. Patient were later given	following hospitalizations	COMPLETER RESULTS: 1) Metabolic control: - HbA1 % means (SD): con: 11.1 (2.2) base 11.7 (2.6) post 11.3 (2.6) f/u sta: 10.5 (2.4) base 10.6 (2.6) post 10.1 (2.4) f/u int: 12.8 (4.1) base 12.1 (3.6) post 10.3 (2.7) f/u *ANOVA indicated int significantly different from con (p<0.02) 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? No EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: None noted

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients		Treatment Duration	Outcomes/Results	Comments
# 6360				the audio tape and were allowed			
Cox, Gonder-				to recall how they			
Frederick,				felt when hyper-			
Julian, Cryer	ı			and hypoglycemic.			
Herrman,				Placebo control			
Richards &				group also attended			
Clarke, 1991.				group meetings and			
				kept diaries			
				recording daily			
				stress factors and			
				diabetic self-care			
				behaviors.			

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6250 D'Eramo- Melkus, Wylie-Rosett, Hagen, 1991.	65 years old, 20-75% over desirable body weight.	RCT with 3 treatment conditions: 1) Single individual session (con) 2) 12-wk behavior oriented diabetes education and weight control group intervention (int.) 3) Group intervention plus six individual follow-up sessions (in + fu)	n con = 28 n int = 28 n int+fu = 26 *33 drop-outs (13 In control, 13 in int, 7 in int+fu) Age mean (SD): 55.6 (8.05)		and 18 week followup	COMPLETER RESULTS: 1) Metabolic control: a) HbA1 % means (SD): con: 10.91 (2.6) base 10.54 (3.11) 3 mo 10.5 (3.21) 6 mo int: 10.72 (3.16) base 8.58 (2.55) 3 mo 9.17 (3.3) 6 mo int+fu: 11.15 (2.9) base 8.82 (2.8) 3 mo 8.26 (2.7) 6 mo *RM-ANOVA indicated a significant decrease in HbA1 for int (p<0.05) and int+fu (p<0.01) at 3 mo on HbA1c over time. Between groups not reported. b) Fasting Blood Glucose (mM) means (SD): con: 11.34 (3.29) base 10.31 (4.05) 3 mo 12.18 (5.46) 6 mo int: 11.59 (3.67) base 8.83 (2.68) 3 mo 9.45 (3.61) 6 mo int+fu: 12.21 (3.85) base 10.08 (4.66) 3 mo 9.03 (3.0) 6 mo *RM-ANOVA indicated a significant decrease in fasting blood glucose for int and int+fu at 3 and 6 mo on HbA1c over time (p<.05 for all). Between groups not reported.	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? Yes Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Large number of participants did not complete study

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6250				received		2) Measures of risk:	
D'Eramo- Melkus, Wylie-Rosett, Hagen, 1991.				intervention plus 2 follow-up sessions.		a) Weight (lbs) means (SD): con: 215.25 (25.47) base 209.46 (25.14) 3 mo 205.14 (25.59) 6 mo int: 211.84 (27.78) base 199.96 (30.13) 3 mo 200.72 (30.44) 6 mo int+fu: 200.65 (30.7) base 192.42 (32.09) 3 mo 191.8 (31.73) 6 mo *RM-ANOVA indicated a significant decrease in weight for all groups at 3 mo (p<0.05 for all) b) Cholesterol means (SD): con: 5.75 (1.19) base 5.83 (1.23) 3 mo 5.77 (1.61) 6 mo int: 6.19 (0.9) base 5.58 (0.72) 3 mo 5.71 (1.14) 6 mo int+fu: 6.08 (1.82) base 5.48 (1.63) 3 mo 5.57 (0.84) 6 mo *RM-ANOVA indicated a significant decrease in weight for all groups at 3 mo (p<0.05 for all) 3) Events: a) Health care utilization: Not given b) Morbidity/mortality:	

Study Selected Inclusion Exclusion	Study Design / n Criteria	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 20 Include: Tydidiabetes, production Schmitz, et al, 2002 Include: Tydidiabetes, prosented prospective persistent psychologic problem, production at least one microvascu complication. Exclude: not self-reporte persistent psychologic problem, production at least one microvascu complication.	esence of controlled trial for patients indicating psychological al problems- single-esence of center design ar diabetic as.	n con= 21	Psycho-therapeutic intervention: 1) definition of the patient-therapist relationship 2) detailed description of a problematic situation of the patient 3) analysis of components of the problem 4) definition of the problem 5) handling the problem 6) conclusion of therapy Plus: Diverse psychotherapeutic interventions to foste awareness, modify thoughts, modify behavior, emotionality, awareness of body's ability to rely and support. *all patients treated by one therapist	Weekly sessions- 14 session maximum, 55- min sessions	COMPLETER RESULTS: 1) Metabolic control:HbA1c mean (SD): total con: 8.7 (1.7) base	No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. withdrawals stated? Yes External Validity: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Not sure Provider training described? No Biases, etc: 4 participants in intervention group did not complete therapeutic sessions, yet still completed f/u; Investigators note that therapy not easily replicated since not strictly structured; No objective measures of self-care used; Investigators note that no

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 20 Didjurgeit, Kruse, Schmitz, et al, 2002 (cont'd)						b) Severity of psychological distress symptoms related to disease (Symptoms Checklist 90 Revised-SCL-90R†) means (SD): control: 0.99(0.47) base 0.75(0.49) f/u tx: 1.1(0.71) base .93 (0.81) f/u *ANOVA indicated no significant group by time interaction for SCL-90 (p=.49)	
						c) Depression Score	
						(ZERSSEN†) means (SD):	
						control: 13.8(8.9) base 11.7(9.8) f/u tx: 16.3(9.6) base 11.8(10.9) f/u *ANOVA indicated no significant	
						group by time interaction for	
						ZERSSEN (p= .39).	
						d) Quality of Life (IRES†) means (SD): control: 4.7(2) base 4.3(1.6) f/u tx: 4(2.2) base 4.4(1.7) f/u *ANOVA indicated no significant group by time interaction for IRES (p= .21)	
						†Higher scores on the SCL-90R, ZERSSEN, and IRES indicate more disease related distress and quality of life respectively	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
#5140 Dyson, Hammersley, Morris, Holman & Turner, 1997	Include: Patients with increased fasting glucose (5.5 to 7.7 mmol/L on 2 occasions. Exclude: diabetes diagnosis	RCT with 2 x 2 factorial design. Four conditions: 1) Sulfonylurea + reinforced healthy-living advice (S+RA) 2) Sulfonylurea + basic healthy-living advice (S+BA) 3) Control(placebo/notablets) + reinforced healthy-living advice (con+RA) 4) Control(placebo/notablets) + basic healthy-living advice (con+BA) *groups 1 and 3 considered treatment (tx) and 2 and 4 considered control (con)	Age mean (SD): 50(9) 59% Female ace % not given Baseline HbA1c %	1) sulfonylurea—an anti- hyperglycemic— helps body better respond to insulin and reduces the amount of sugar produced by liver 2) Basic healthy- living advice— given written dietary information and seen by a physician who advised weight loss and increased physical activity. Patients seen every 3 months for assessment of glycemia, but basic advice was only given once at the initial visit. 3) Reinforced healthy-living advice—patients seen by dietitian and advised to change their diet, limit fat intake and increase consumption of unrefined carbs and dietary fiber. Individual energy requirements were	followup	COMPLETER RESULTS: 1) Metabolic control - HbA1c % means: RA: 5.7 base 5.6 1 year BA: 5.7 base 5.6 1 year *Reported no significant effect of group on HbA1c. Statistical test not given. No change in findings when medicated Ss eliminated from analysis. 2) Measures of risk: a) Weight (kg) means: RA: 81.3 base 80.8 1 year BA: 82.0 base 81.8 1 year *Reported no significant effect of group on weight loss. Statistical test not given. No change in findings when medicated Ss eliminated from analysis. b) Systolic blood pressure-SBP means: RA: 122 base 120 1 year BA: 121 base 121 1 year *Reported no significant effect of group on SBP. Statistical test not given. c) Diastolic blood pressure- DBP means: RA: 78 base 77 1 year BA: 76 base 76 1 year *Reported no significant effect of group on DBP. Statistical test not given.	Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: Statistical analyses not clearly explained; differential attrition—more in treatment group (RA)

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
#5140				calculated and		d) HDL Cholesterol means:	
				caloric		RA: 1.1 base	
Dyson,				consumption. Sav		1.1 1 year	
Hammersley,	,			a fitness Instructor		BA: 1.1 base	
Morris,				every 3 months an	d	1.1 1 year	
Holman &				were encouraged t	to	*Reported no significant effect of	group
Turner, 1997				increase physical		on HDL-C. Statistical test not give	en.
				activity gradually.		_	
				Subjects filled out		e) LDL-Cholesterol means:	
				food and exercise		RA: 3.2 base	
				diaries.		3.1 1 year	
				4) Placebo-half o	f	BA: 3.2 base	
				the control group		3.01 year	
				received a placebo)	*Reported no significant effect of	aroup
				tablet, the other ha		on LDL-C. Statistical test not give	•
				received no tablets		on EBE of old flour for flot give	
				10001V0a 110 tablott		3) Events:	
						a) Health care utilization:	
						Not given	
						•	
						b) Morbidity/mortality:	
						Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 510 Fosbury, Bosley, Ryle, Sonksen, Judd 1997		RCT with 2 treatment conditions: 1) CAT treatment—cognitive analytic therapy (cat) 2) DSNE Control—diabetes specialist nurse education	N = 32 n.cat = 15 n.dsne = 17 *6 drop-outs (5 from CAT, 1 from dsne) Age means (SD): cat = 30.5(10.6) dsne = 32(9.2) % Female: cat = 70 dsne = 69 Race %: 88- Caucasian 8- African Amer. 4- Asian Baseline HbA1 % means (SD): Completers: cat = 12.12(1.37) dsne = 11.76(1.88)	psychosomatic and CBT methods where self-care and relationships with others are understood as sequences of mental and behavioral processes. CAT therapist makes links between the patients' past and present experiences and their use of procedures that are ineffective and harmful. 2) DSNE—involved teaching, counseling, and advice about diabetes management in	16 (50 min) sessions, approx. once a week, 3 and 6 month follow-up	COMPLETER RESULTS: 1) Metabolic control - HbA1 % means (SD): cat: 12.1 (1.4) base 11.0 (2.0) post 10.6 (1.3) 3 mo 10.1 (1.5) 9 mo dsne: 11.8 (1.9) base 10.6 (2.0) post 10.5 (2.2) 3 mo 10.9 (1.5) 9 mo *t-tests indicated no significant differences between groups. Both groups showed significant within group improvements at 3- and 6-months 2) Measures of risk: Not given 3) Events a) Health care utilization: Not given b) Morbidity/mortality: Not given	No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc:
				relation to the personal needs and lifestyle of the patient.	;		No measures of risk assessed ; disproportionate attrition in the intervention and control group.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 210 Gaede, Beck, Vedel & Pederson 2001		RCT-single center with 2 groups: 1) standard intervention (con) 2) intensive multifactorial intervention (tx)	N= 160 n con=76 n tx= 73 *5 drop-outs- tx: 3, con: 2) and 6 died Age mean (SD): 55.1 (7.2) 25% Female Race % not given Baseline HbA1c % means (SD): Intended to treat: con: 8.8 (1.7) tx: 8.4 (1.5)	Both groups received information on diet, exercise, and smoking cessation. Tx group was taught to se individual goals for diet, smoking and exercise, received spouse-assisted training to help retain their goals, engaged in self-monitoring, and were both encouraged to exercise more and was offered smoking cessation programs		COMPLETER RESULTS: 1) Metabolic control: -HbA1c % means (SD): con: 8.8 (1.7) base 9.0 (1.8) post tx: 8.4 (1.5) base 7.6 (1.0) post* *Reported a significant decrease in HbA1c for tx group (p<0.01), and a significant difference between groups at post (p<0.000001). Statistical tests not given. 2) Measures of risk: a) Weight (kg) means (SD): con: 89.9 (17.3) base 90.4 (16.4) post tx: 91.4 (13.6) base 95.1 (13.2) post* *Reported a significant increase in weight for tx group (p<0.001), and a significant difference between groups at post (p=0.001). Statistical test not given. b) Current Smokers: con: 26 base 21 post tx: 28 base 22 post *Reported a significant decrease in smokers for both con and tx groups (p<0.05), yet no significant difference between groups. Statistical test not given.	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? No Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Behavioral intervention not explained clearly; statistical analyses not stated.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 210						c) Fasting Total Cholesterol	means
Gaede, Beck,						(SD):	
Vedel & Pederson 2001						con: 5.8 (1.3) base 5.5 (1.2) post tx: 5.4 (1) base 4.8 (0.7) post Reported a significant decrea	se in
						total cholesterol for tx group	
						(p<0.001), and a significant	
						difference between groups	
						(p=0.00003). Statistical test no	t
						given.	
						d) Fasting HDL Cholesterol (SD): con: 1.01 (0.3) base 1.04 (0.3) post tx: 1.03 (0.2) base 1.05 (0.3) post *Reported no significant differ	
						between groups at post. Statis	stical
						tests not given.	
						3) Events: a) Health care utilization: Not given b) Morbidity/mortality: 6 patients died during f/u	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
		design with 2 groups 1) standard (st) and 2) intensified (in)			monitoring every 3 months on e	COMPLETER RESULTS: 1) Metabolic control: a) HbA1c % mean change (SD): st: 0.2 (1.9) in: -0.8 (1.6) * Indicated a significant difference between groups (p<0.0001). Statistical test not given. b) Fasting glucose (mmol/L) mean change (SD): st: -0.3 (4.2) in: -2.7 (3.5) *Indicated a significant difference between groups (p<0.0001). Statistical test not given.	No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded?
			Race % not given Baseline HbA1c % means (SD): Intended to treat: st: 8.8 (1.7) in: 8.4 (1.6)			2) Measures of risk: a) BMI mean Change (SD): st: 0.0 (1.8) men 0.6 (3.1) women in: 1.1 (1.8) men 1.8 (2.1) women *ANCOVA indicates significant differences between groups (by sex) in BMI change (men p=0.004; women p=0.06) b) Systolic blood pressure mean change (SD): st: -4(17) in: -8(18) * Indicated a significant difference between groups (p<0.01). Statistical test not given.	EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? No Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Behavior modification not clearly defined/ described; statistical methods not clearly explained

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 330 Gaede, Vedel, Hans- Henrik et al 1999						c) Diastolic blood pressure mean change (SD): st: -5 (10) in: -7 (10) *Indicated no significant difference between groups (p=0.21). Statistical test not given. d) Currently Smokes Change: st: -5 in: -7 *Indicated no significant difference between groups (p=0.50). Statistical test not given. e) Cholesterol mean change (SD): st: -15(176) in: -79(147) *Indicated a significant difference between groups (p=0.005). Statistical test not given. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: st: 2 deaths (cardiovascular) 42 total health events in: 4 deaths (3 cardiovascular, 1 cancer) 26 total health events *Indicated a significant difference between groups (p=0.03). Statistical test not given.	

Study	Selected Inclusion/ Exclusion Criteria	, ,	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
Glasgow, Boles, McKay, Feil,	Include: adult type-II diabetes for at least 1 year, are living independently, had a telephone, were literate in English, not planning to move. Exclude: none given	1) Tailored Self Management (TSM) with basic nutrition information	7.44 (1.62)	work with compute mediated access t a professional	quarterly online or assessments.	COMPLETER RESULTS: 1) Metabolic control: HbA1c % means (SD): NPS: 7.35 (1.56) base 7.68 (1.10) 10 mo PS: 7.54 (1.68) base 7.42 (1.10) 10 mo NTSM: 7.43 (1.71) base 7.67 (1.10) 10 mo TSM: 7.45 (1.53) base 7.42 (1.10) 10 mo * MANCOVA reported to be not significant. 2) Measures of risk: a) Lipid Ratio: NPS: 5.44 (1.79) base 5.13 (1.16) 10 mo PS: 5.43 (1.59) base 5.02 (1.16) 10 mo NTSM: 5.18 (1.44) base 5.02 (1.17) 10 mo TSM: 5.70 (1.89) base 5.13 (1.16) 10 mo * MANCOVA reported to be not significant. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized: Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. withdrawals stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? No Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Not many measures of risk reported. Actual interventions not explained clearly. Education group never directly compared to intervention groups, group assignment not explained clearly, participant #'s per group not given.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 9120				stressors.		COMPLETER RESULTS:	
Classow				Participants could also participate in		 Psychological outcomes†: a) CES-D means (SD): 	
Glasgow, Boles,				live chat		NPS: 17.8 (10.08) base	
McKay, Feil,				discussions. Pts.		14.06 (9.12) 10 mo	
Barrera, 2003				Electronic		PS: 18.1 (10.51) base	
Daireia, 2003				newsletters (5)		12.59 (9.13) 10 mo	
				containing		NTSM: 17.9 (10.56) base	
				information on loc	-al	12.93 (9.11) 10 mo	
				restaurants that	·ai	TSM: 18.0 (10.02) base	
				provide low-fat		13.72 (9.12) 10 mo	
				menu options.		* MANCOVA reported to be not	
				strategies for		significant.	
				talking with		0.g0a	
				doctors, media,		b) Total Support Scale means (SD):
				and real-life		NPS: 4.23 (1.23) base	,
				success stories		4.71 (1.12) 10 mo	
				3) Information		PS: 4.05 (1.28) base	
				only—pts had		5.22 (1.11) 10 mo	
				computer access	to	NTSM: 4.14 (1.32) base	
				articles on topics	of	4.96 (1.12) 10 mo	
				medical, nutritiona	al,	TSM: 4.14 (1.20) base	
				and lifestyle		4.97 (1.12) 10 mo	
				aspects of		* MANCOVA reported to be significa	
				diabetes. They als	SO	for NPS and PS comparison (p=0.00	1),
				completed		but significant for NTSM and TSM	
				assessments		comparison.	
				online and receive			
				automated dietary	1		
				change goals.		† Higher scores on Center for	
				Quarterly online		Epidemiologic Studies-Depression	
				assessments.		(CES-D) and Total Support Scale	
						indicate more depressive symptoms	
						and support respectively.	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 240 Glasgow & Toobert, 2000		2 x 2 RCT: 1) Basic condition (BC) 2) Basic & telephone follow-up (BCT) 3) Basic & Community Resources (BCC) 4) Combined Condition (CC)		completed at baseline and 3 nmonth follow-up (BC) 2) Telephone follow-up (3-4	Treatment duration not stated. F/u at 3 and 6 mo t	COMPLETER RESULTS: 1) Metabolic control a) HbA1c % means (SD): BC: 7.6 (1.2) base 7.6 (1.4) 3 mo 7.4 (1.2) 6 mo BCT: 7.3 (1.5) base 7.3 (1.6) 3 mo 7.3 (1.4) 6 mo BCC: 7.5 (1.9) base 7.6 (2.1) 3 mo 7.4 (1.4) 6 mo CC: 7.6 (1.8) base 7.5 (1.7) 3 mo 7.5 (1.7) 6 mo *ANCOVA indicated no significant effect of group on HbA1c 2) Measures of risk: a) Weight (lbs) means (SD): BC: 199 (36) base 198 (37) 3 mo 197 (37) 6 mo BCT: 212 (49) base 210 (46) 3 mo 210 (46) 6 mo BCC: 219 (49) base 217 (47) 3 mo 217 (48) 6 mo CC: 221 (52) base	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? No Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc:
				obtaining support for their eating patterns and goal feedback on ways to decrease		218 (49) 3 mo 219 (51) 6 mo *ANCOVA indicated no significant effect of group on weight loss.	Treatment duration not stated

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 240 Glasgow & Tooobert, 2000	Exclusion Criteria			setting for community nutrition. Participants had to return a postcard stating which CR they used. A Food frequency questionnaire was mailed with personally tailored Fat intake (BCC, CC)		b) Total Cholesterol means (SD): BC: 210 (40) base 201 (34) 3 mo 206 (39) 6 mo BCT: 203 (39) base 202 (34) 3 mo 194 (30) 6 mo BCC: 202 (38) base 198 (37) 3 mo 202 (39) 6 mo CC: 205 (35) base 201 (31) 3 mo 201 (30) 6 mo *ANCOVA indicated no significant effect of group on Total Cholesterol. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given 4) Psychological Measures: -Quality of Life: Illness Intrusiveness Scale- IIS means (SD): BC: 25.7 (11.1) base 31.0 (15.6) 3 mo 26.0 (12.7) 6 mo BCT: 29.2 (15.2) base 30.6 (15) 3 mo 29.6 (14.9) 6 mo BCC: 28.6 (12) base	
						32.4 (13) 3 mo 28.2 (12.4) 6 mo CC: 30.8 (15.7) base 31.4 (13.3) 3 mo 29.2 (14.0) 6 mo *ANCOVA indicated no significant effect of group on Quality of Life.	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3090 Glasgow, La Chance, Toobert, Brown, Hampson, Riddle, 1997.	Include: type 1 or type 2 diabetes, older than 40 years, being primarily responsible for one's own diabetes dietary selfmanagement Exclude: not stated	1) Usual Care (con)	N = 206 n con = 98 n int = 108 *33 drop-outs Age means (SD): con = 63.1(10.5) int = 61.7(12.1) % Female: con: 60 int: 63 Baseline HbA1c % means: Completers: con: 7.9 int: 7.9	1) Usual care—a high quality quarterly medical care intervention—did not focus on behavioral interventions 2) 5-10 min touch-screen dietary barriers assessment that generated feedback forms including problem situations to plan for. 20 min patien centered goal setting and problem solving session, plan to lower fat intake.	interventions (1 at time of tx and one at 3 month follow-up), 6 month phone follow-up, 12 month follow-up	COMPLETER RESULTS: 1) Metabolic control a) HbA1c % means: con: 7.9 base 7.8 f/u int: 7.9 base 7.8 f/u *MANCOVA indicated no significant effect of group on HbA1c at f/u (p=0.42). 2) Measures of risk: a) Body Mass Index-BMI means: con: 30.2 base 30.4 f/u int: 30.4 base 30.5 f/u *MANCOVA indicated no significant effect of group on BMI at f/u (p=0.33). b) Serum Cholesterol means (SD): con: 223 base 226 f/u int: 217 base 208 f/u *MANCOVA indicated a significant effect of group on serum cholesterol at f/u (p=0.002). 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? Yes Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: None noted

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3110 Glasgow, Toobert, & Hampson, 1996.	Include: Type I or II diabetes; age ≥40 years; primarily responsible for one's own diabetes self-management Exclude: None noted	RCT with 2 treatment conditions: 1) Usual Care (con) 2) Brief intervention (int)	N = 206 n con = 98 n int = 108 *26 drop-outs- int: 13; con: 13 Age means (SD): Intended to treat: con = 63.1(10.5) int = 61.7(12.1) % Female: Intended to treat: con = 60 int = 63 Race % not given Baseline HbA1c % means: Intended to treat: con: 7.9 int: 7.8	1) Usual care—complete the 15—20 minute computerized assessment, then saw their physician as scheduled and were re-assessed at their scheduled 3 month follow-up 2) Intervention—completed one additional touch-screen dietary barriers assessment that generated feedback forms then gave recommendations for personalized strategies to help patients reduce faintake. Patients were also given a video on frequent barriers (30 min). Patients received follow-up phone calls at 1 and 3 weeks after the visit. Intervention was repeated 3 months later.	2 follow-up phone calls at 1 and 3 weeks.	COMPLETER RESULTS: ad1) Metabolic control a) HbA1c % means: con: 7.9 base 7.7 f/u int: 7.8 base 7.6 f/u *ANCOVA indicated no significant effect of group on HbA1c at f/u (p=0.20). 2) Measures of risk: a) Serum Cholesterol means: con: 223 base 231 f/u int: 216 base 207 f/u *ANCOVA indicated a significant effect of group on serum cholesterol at f/u (p=0.0001). 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: Not many measures of risk assessed

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6180 Glasgow, Toobert, Hampson, Brown, Lewinsohn & Donnelly, 1992	Include: type II diabetes, age ≥ 60 years Exclude: Positive submaximal exercise test	RCT with 2 treatment conditions: 1) Immediate intervention 2) Delayed intervention	N = 102 n imm = 52 n del = 50 *1 subject dropped out before the post- test assessment. Age means (SD): imm = 67.1(4.3) del = 67.2 (5.8) % Female: imm = 63.5 del = 62.0 Race % not given Baseline GHb % means (SD): Completers: imm: 6.8 (1.6) del: 7.4 (1.8)	1) Focused on dietary and exercise self-care behaviors and regular blood glucose monitoring. Dietary targets were reducing caloric intake, decreasing consumption of fats and increasing fiber intake. Exercise: regular participation in low level aerobic activity. Also focused on problem-solving and coping strategies. 2) Delayed intervention-received intervention following post-treatment.	weekly meetings = 12 weeks total	imm: 6.8 (1.6) base	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? Yes Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? Yes Patients assessed for DSM dx? No Biases, etc: Not many measures of risk assessed
						t Higher scores on the Diabetes Quality of Life Scale indicated higher quality of life.	

Study	Selected Inclusion/ Exclusion Criteria	, ,	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 9140	Include: type II diabetes, lived	RCT with 4 groups: 1) Basic goal setting	N= 320 n BGS=80	Basic Goal Setting—attended		COMPLETER RESULTS: 1) Metabolic control:	QUALITY ASSESSMENT: INTERNAL VALIDITY:
Glasgow, Toobert, Hampson,	independently, had a telephone, were not planning to move	(BGS) 2) Community Resources (CR)	n CR=80 n TF=80 n COM= 80	baseline assessment with a other participants	to-face	HbA1c % means (SD): BGS: 7.63 (1.3) base 7.43 (1.3) 12 mo	Described as randomized: Yes Method of randomization
Stryker, 2002		4) Combined Condition	* 15 participants n withdrew before the		Visits at BL, 3 and 6 mos. (1-2 hrs)	TF: 7.55 (1.9) base	clearly described? No Concealment of allocation? No
		(COM)	1-yr f/u Age mean: 59.7	assessment with feedback and brief session with an interventionist.	f	7.39 (1.3) 12 mo COM: 7.54 (1.7) base 7.23 (1.2) 12 mo * MANCOVA indicated TF group	Described as double-blind? No Patient blinded? No
			56% Female	Assessed dietary patterns, barriers, and gave one-pag	e	significantly different than other groups at 12 mo (p<0.05) on all biological measures combined (HbA1c and lipid	Outcome assessors blinded? No
			Race (%Caucasian): BGS = 90	printout summarizing this information. Were		ratio). 2) Measures of risk:	No. withdrawals stated? Yes EXTERNAL VALIDITY:
			CR = 90.9 TF = 88.6 COM = 91.4	given a general pamphlet about low-fat eating. 2) Telephone		a) Lipid Ratio: BGS: 5.1 (1.7) base 4.8 (1.6) 12 mo CR: 4.8 (1.4) base	Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in
			Baseline HbA1c mean (SD): BGS: 7.63 (1.3)	follow-up—7 (15- 20 min) brief structured calls		4.5 (1.2) 12 mo TF: 5.2 (3.8) base 4.3 (1.0) 12 mo	manual? No Provider training described? No
			CR: 7.38 (1.6) TF: 7.55 (1.9) COM: 7.54 (1.7)	providing support and reinforcement personalized	,	COM: 4.9 (1.3) base 4.4 (1.1) 12 mo	Patients assessed for DSM dx? No
				problem-solving training 3) Community Resources—binde of indexed community re-	r	3) Event: a) Health care utilization: Not given b) Morbidity/mortality: Not given	Biases, etc: Statistical analyses not differentiated on measure, but type of outcome (biological, behavioral, or psychosocial)

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 9140 Glasgow, Toobert, Hampson, Stryker, 2002				sources, 8 newsletters focused on identifying opportunities for participants to obtain support for their eating patterns. Goal setting for community suppor activities was included in each face-to-face meeting. 4) combined condition received everything mentioned for BGS, TF, and CR	rt	COMPLETER RESULTS: 4) Psychological outcomes†: a) Illness Intrusiveness means (SD): BGS: 27.1 (14.2) base 27.8 (12.4) 12 mo CR: 28.2 (15.0) base 32.8 (17.0) 12 mo TF: 30.0 (13.6) base 31.6 (12.7) 12 mo COM: 30.8 (15.6) base 29.5 (12.7) 12 mo * MANCOVA indicated TF group significantly different than other groups at 12 mo (p<0.05) on all psychological measures combined (illness intrusiveness, illness resources, and self efficacy). b) Self Efficacy means (SD): BGS: 3.9 (0.8) base 3.9 (0.7) 12 mo CR: 3.9 (0.6) base 4.1 (0.7) 12 mo TF: 3.8 (0.7) base 4.0 (0.6) 12 mo COM: 3.9 (0.6) base 4.1 (0.7) 12 mo COM: 3.9 (0.6) base 4.1 (0.7) 12 mo	3
						† Higher scores on Center for Epidemiologic Studies-Depression (CES-D) and Total Support Scale indicate more depressive symptoms and support respectively.	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6620 Glasgow, Toobert, Mitchell, Donnelly, & Calder, 1989.	of poor control. Exclude: not stated	RCT with 3 treatment conditions: t 1) Nutrition education (NE) 2) Nutrition education + social learning (NE +SL) 3) Wait-list control (WL)	n NE = 20 n NE + SL = 23 n WL = 16	1) NE—3 targets: reduction in calorie intake, reduction in fat intake, and increases in dietary fiber. Weight loss was deemphasized, but presented as a possible bonus 2) NE + SL—NE as above, plus other components including goal setting based on individual barriers to adherence and modeling of strategies used successfully by other individuals with type II diabetes, problem solving method called STOP(specify the problem, think of the options, opt for the best solution into practice). 3) Wait-list	meetings, 2- month follow-up	COMPLETER RESULTS: 1) Metabolic control: a) GHb % Not given *Comparisons of groups on GHB said to be not significant. Statistical tests no given. 2) Measures of risk: -Not Given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes t Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Datients assessed for DSM dx? No Biases, etc: Results not given for metabolic control; no measures weight, blood pressure, or cholesterol assessed. All 4 drop-outs were in the control (NE) condition.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
#3440 Goldhaber-Fiebert, Goldhaber-Feibert, Tristan & Nathan, 2003.	Include: Type II diabetes Exclude: none	RCT with 2 conditions: 1) Control group (con) 2) Intervention Group (int)	N = 75 n con = 35 n int = 40 *14 drop-outs (7 intervention, 7 control) Age mean (SD): n con = 57(9) n int = 60(10) % Female: con = 74.3 int = 82.5 Race % not given Baseline GHb% means (SD): Intention to treat: con = 8.6 (3.9) int = 8.6 (3.7)	1) Control—standard diabetes educational lecture 2) Intervention—12-week lifestyle intervention (in Spanish), including 11 weekly nutrition classes (90 min) focusing on portion control and healthy food substitutes. Taught of the basic food groups Subjects set weekly goals for eating behavior changes. Emphasis put on health for all famil members. Recorded food diaries. 20 of 40 subjects in this group also participated in a 60-min walking group 3 times a week for 12 weeks.	i	COMPLETER RESULTS: 1) Metabolic control a) GHb % Change means (SD): con: -0.4 (2.3) base-post int: -1.8 (2.3) base-post *t-tests indicated significant differences between groups on GHb change (p=0.028) b) Fasting Plasma Glucose (mg/dl) Change means (SD): con: 16 (78) base-post int: -19 (55) base-post *t-tests indicated significant differences between groups on Fasting Plasma Glucose change (p=0.048) 2) Measures of risk: a) Weight (kg) Change means (SD): con: 0.4 (2.3) base-post int: -1.0 (2.2) base-post *t-tests indicated significant differences between groups on weight change (p=0.028) b) Systolic blood pressure-SBP Change means (SD): con: -4 (16) base-post int: -5 (23) base-post *t-tests indicated no significant differences between groups on SBP (p=0.95). c) Diastolic blood pressure- DBP Change means (SD): con: -3 (8) base-post int: -7 (9) base-post *t-tests indicated no significant differences between groups on DBP (p=0.06).	Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? Yes Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
#3440 Goldhaber- Fiebert, Goldhaber- Feibert, Tristan & Nathan, 2003.						d) Total Cholesterol Change means (SD): con: 1 (33) base-post int: -8 (36) base-post *t-tests indicated no significant differences between groups on total cholesterol (p=0.31). e) HDL Cholesterol Change means (SD): con: -3 (6) base-post int: -5 (5) base-post *t-tests indicated no significant differences between groups on HDL-C (p=0.49). f) LDL-Cholesterol Change means (SD): con: -1 (29) base-post int: 5 (36) base-post int: 5 (36) base-post *t-tests indicated no significant differences between groups on LDL-C (p=0.53). 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
	Include: diabetic patients Exclude: non-continuing patients, >75 years old, blind, could not speak English, on insulin pump, had cancer or any other major health concern.	RCT with 2 groups: 1) Experimental (exp) 2) Control (con)	N= 73 n con= 34 n exp= 39 *14 drop-outs: 8 con, 6 exp Age means (SD): con: 49.5 (13.0) exp: 49.8 (14.7) % Female: con: 52 exp: 48 Race %: not given Baseline HbA1 % means (SD): con: 10.26 (1.96) exp: 10.59 (2.11)	group patients were taught to identify relevant medical issues about which they can question their doctors. The patients were also taught which options were available in the event of some common medical issues, and the skills to negotiate with their doctors at to which options was chosen.	ep to doctor's visit re h as	rCOMPLETER RESULTS: 1) Metabolic control: HbA1 % means (SD): con: 10.26 (1.96) base 10.61 (2.15) post exp: 10.59 (2.11) base 9.06 (1.92) post * t-tests indicate significant differences between groups at post (p<0.01). 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given 4) Psychological Outcomes: a) Health Related Quality of Life Variables†: i) Mobility means (SD): con: 1.11 (0.96) base 0.39 (1.09) post exp: 0.85 (0.95) base 0.19 (0.48) post * ANCOVA indicated that the groups were significantly different at post (p<0.01). ii) Role means (SD): con: 0.50 (0.62) base 0.60 (0.77) post exp: 0.37 (0.49) base 0.11 (0.32) post * ANCOVA indicated that the groups were significantly different at post (p<0.01).	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized: Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. withdrawals stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: No measures of risk reported.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6710 Greenfield, Kaplan, Ware, Yano, Frank 1988						iii) Physical means (SD): con: 1.89 (1.38) base 2.25 (1.40) post exp: 1.41 (1.02) base 0.98 (1.15) post * ANCOVA indicated that the groups were significantly different at post (p<.0.01). iii) Self Care means (SD): con: 0.07 (0.12) base 0.06 (0.13) post exp: 0.06 (0.18) base 0.03 (0.09) post * ANCOVA indicated no significant differences between groups. b) Perceived Health Status Variables‡: i) Overall Health means (SD): con: 2.17 (0.88) base 2.82 (0.86) post exp: 2.38 (0.78) base 2.04 (0.77) post * ANCOVA indicated that the groups were significantly different at post (p<.0.001).	
						li) Health Concern means (SD): con: 4.22 (0.81) base 4.44 (1.38) post exp: 4.30 (0.91) base 3.26 (1.38) post * ANCOVA indicated that the groups were significantly different at post (p<.0.01).	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6710 Greenfield, Kaplan, Ware, Yano, Frank 1988						iii) Number of Health Concerns means (SD): con: 2.68 (1.73) base 2.73 (1.49) post exp: 2.94 (1.69) base 2.35 (1.82) post * ANCOVA indicated no significant differences between groups.	
						† Higher scores for health related quality of life variables signify higher ability to perform as usual in mobility, role, physically, and self-care respectively. ‡Higher scores on the perceived hea	lth
						status variables indicate poorer healt more concern and more problems respectively.	h,

	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
Hanefeld, Fischer, Schmechel, Rothe, Schulze,	Include: NIDDM patients, 30-55 years old, Exclude: myocardial infarction, stroke, gangrene, cancer, or other severe life-limiting illness	1) Control group (con) 2) IHE + placebo (ihe)	n con = 378 n ihe = 382	1) control—regular clinical checkups with 3 to 4 monthly visits. Traditional diet was encouraged. Only had a complete check up in the clinic at entry and after 5 years. 2) Both IHE groups were seen at 3-month intervals. Adherence to diet and physical activity recommendations was annually recorded by questionnaires. Recommendation for lowering weight, lipid-lowering diet, recommendations for physical activity were incorporated to improve metabolic control and reduct the level of coronary risk factors and incidence of ischemic heart disease.	ly y in it is is	COMPLETER RESULTS: 1) Metabolic control: - Fasting Blood Glucose (mM) means (SD): con: 7.55 (2.11) base 9.38 (3.33) 5 yr ihe: 7.1 (1.83) base 8.6 (2.72) 5 yr ihe+ca: 7.27 (2.22) base 8.6 (2.89) 5 yr *Reported significant differences between con and both ihe and ihe-ca at 5 yr, with base as covariate. t-test for proportion 2) Measures of risk: a) Body Mass Index-BMI means (SD): con: 28.8 (5.0) base 28.5 (4.9) 5 yr ihe: 29.0 (4.5) base 28.6 (4.6) 5 yr ihe+ca: 29.6 (4.6) base 29.2 (4.6) 5 yr *Reported no significant differences between groups in BMI. T-test for proportion b) Systolic blood pressure- SBP means (SD): con: 150 (20.8) base 154.3 (22.6) 5 yr ihe: 148.6 (19.9) base 143 (18.2) 5 yr ihe+ca: 150.9 (19.4) base 145.4 (18.1) 5 yr *Reported significant differences between con and both ihe and ihe+ca in SBP (both p<0.01). t-test for proportion	Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind?

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3220						c) Diastolic blood pressure-DBP	
Hanefeld, Fischer, Schmechel, Rothe, Schulze, Dude, Schwanebecl , Julius 1991	K					means (SD): con: 90.4 (10.2) base 91.8 (10.7) 5 yr ihe: 89.9 (10.2) base 86.9 (8.5) 5 yr ihe+ca: 90.7 (10.4) base 87.8 (8.9) 5 yr *Reported significant differences between con and both ihe and ihe in DBP (both p<0.01). t-test for proportion d) Cholesterol means (SD): con: 5.75 (1.23) base 6.22 (1.59) 5 yr ihe: 5.71 (1.2) base 6.06 (1.4) 5 yr ihe+ca: 5.62 (1.37) base 5.96 (1.41) 5 yr *Reported no significant difference between groups at 5 yr. Within gro improvements for all groups. T-tes proportion 3) Events: a) Health care utilization: Not given	es oup
						b) Morbidity/mortality: i) Myocardial Infarction-MI ar Ischemic Heart Disease-IH MI: con: 10; ihe: 17; ihe+c IDH: con: 30; ihe: 31; ihe+c	D: :a: 18

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
Schwanebec						ii) Death:: Cardiac death: con: 5; ihe: 1; ihe+ca: 1 Stroke: con: 1; ihe: 1; ihe Malignant neoplasia: con: 2; ihe: 3; ihe+ca: 2 Liver cirrhosis: con: 5; ihe: 4; ihe+ca: 1 Infectious disease: ihe+cothers=0 Coma diabeticum: con: 1 others=0	e+ca: 3 2 1 ca: 2,
Dude, Schwanebec , Julius 1991						Infectious disease: ihe+c others=0 Coma diabeticum: con: 1	ca: 2, 1,

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2860 Hartwell, Kaplan, & Wallace 1986	Include: Type II diabetes mellitus, non-insulin dependen Exclude: not stated	RCT-single center with 4 groups: t1) diet (diet) 2) exercise (exer) 3) diet plus exercise (di-ex) 4) education control (con)	*2 patients did not complete study Age means (SD): Not Given 57.9% Female Race % not given Baseline GHb % mean (SD): Intention to treat: 8.66 (2.74)	1) Diet group participated in goal setting exercises, and monitored eating behavior; also instructed in self- administration of positive reinforcement 2) Exer group were instructed in goal setting, planning for exercise, and self monitoring strategies. 3) Di-ex group received diet instruction for first five sessions, then were instructed on exercise practices 4) Con group received traditional diabetes education including information on glucose monitoring podiatry, & ophthalmology.	at 3 and 6 mo.	COMPLETER RESULTS: 1 1) Metabolic control: -Blood Glucose (mg/dl) Change means:	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc:
						at 3 mo.	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2860 Hartwell, Kaplan, &Wallace 1986						c) LDL-Cholesterol Change means Estimated from Graph: diet: -1.0 6 mo exer: 12.0 6 mo di-ex: -9.5 6 mo con: 26.0 6 mo *ANOVA indicated both di-ex and con (p<0.01) and diet and con (p<0.05) were significantly different. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality:	

Study	Selected Inclusion/ Exclusion Criteria		Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 1010 Heitzman, Kaplan, Wilson et al. 1987	oral glucose tolerance tests that indicated blood glucose levels	(con) 2) behavior tmodification (bm) 3) cognitive modification (cm) 4) cognitive-behavioral modification (cbm)	N= 55 n con=14 n bm= 13 n cm= 13 n cm= 15 * 9 patients withdrew by 18 mo Age mean (SD): 52.94(12.08) Age range: 29- 79 52.17% Female Race %: 95.7- Caucasian 4.3 African Amer. Baseline HbA1 % means (SD): Intended to treat: con: 10.99(2.2) bm: 9.99(3.04) cm: 10.17(2.3) cbm:11.52 (2.4)	1) Con exposed to brief progressive muscle relaxation 2) Bm focused on self-control and self-monitoring procedures 3) Cm discussed importance of cognitions and change in cognitions 4) Cbm received training in both behavioral and cognitive techniques.	sessions with f/u at 3,6,12 & 18	COMPLETER RESULTS: u1) Metabolic control: -HbA1 % at f/u not given, but said to be not significant 2) Measures of risk: a) Weight Loss: -Weight change at f/u not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized: Yes Method of randomization clearly described? No Concealment of allocation? Yes Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. withdrawals stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? Yes Patients assessed for DSM dx? No Biases, etc: Results not clearly stated, with no actual quantitative results given for any main findings; study focused on sex, differences.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 4330 Hendricks & Hendricks, 2000.	Include: African American men, type II diabetes Exclude: not stated	RCT with 2 treatment I conditions: 1) Monthly follow-up intervals 2) 3 month follow-up intervals	n 1 mo = 15	1) Diabetes self-management education—provides comprehensive instruction in 15 content areas—2 hrs a week for 4 weeks. Audiovisual presentations, lectures provide diabetes information that would empower the participants, encourage them take charge of their diabetes, learn to problem solve. Instructors were positive, open and honest. Altruistic reasons were identified as reasons to adhere to a diabetes regimen. Two randomly assigned telephone follow-up conditions 1) monthly follow-up 2) every 3-month follow-up. Goals of follow up: to evaluate progress towards set goals	Group 1 = monthly follow-up for six months Group 2 = follow up at month 3 and month 6	COMPLETER RESULTS: 1) Metabolic control a) HbA1c % means (SD): 1 mo: 7.8 (1.9) base 6.6 (1.6) post 3 mo: 8.3 (2.0) base 7.8 (2.3) post *paired t-tests indicated no significant differences. 2) Measures of risk: Not Given 3) Events: a) Health care utilization: - Patients reported having no hospitalizations or emergency room visits during 6 mo period b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes, none. EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: Not many measures of risk assessed at post.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 4330				identify self- management			
Hendricks &				problems, track			
Hendricks,				selected			
2000.				outcomes, give instruction/skills			
				training & advice			

Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
dependent type II diabetes	conditions: 1) Diet (diet) 2) Exercise (exer)	N = 76 * 6 subjects were lost before the 18 month follow-up—did not specify from which groups. Age means (SD): diet= 54.87(12.32) exer= 53.81(8.04) di-ex = 56.96(8.95) con = 54.5(8.83) Race % not given Baseline HbA1c % means (SD): Intention to treat: diet= 8.97(2.82) exer= 8.16(3.44) di-ex= 9.18(2.46) con= 8.21(1.54)	identify cues that led to overeating or inappropriate eating patterns, positive reinforcement, and environment alterations, and changes in cognitions that calbe made to change eating habits. Relaxation exercises also used. 2) Exercise—goal setting, planning for exercise, selfmonitoring	10 weeks, f/u at 3, 6, 12 and 18 mos	,	Patients assessed for DSM dx? No Biases, etc: Post-tx means not clearly reported in table form for all
	Inclusion/ Exclusion Criteria Include: Non-insulin- dependent type II diabetes Exclude: None stated	Inclusion/ Exclusion Criteria Include: Non-insulindependent type II diabetes Include: None stated State of the conditions: Include: Non-insulindependent type II conditions: Include: Non-insulindependent type	Inclusion/ Exclusion Criteria Include: Non-insulindependent type II diabetes In Diet (diet) and percent diabetes In Die	Inclusion/ Exclusion Criteria RCT with 4 conditions: 1) Diet (diet) 2) Exercise (exer) 3) Diet + exercise (diex) 4) Education (con) Age means (SD): diet = 54.87(12.32) exer= 53.81(8.04) di-ex = 56.96(8.95) con = 54.5(8.83) Race % not given Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Conditions: 4 S subjects were lost before the 18 month follow-up— which groups. Age means (SD): diet = 54.87(12.32) exer= 53.81(8.04) di-ex = 56.96(8.95) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer= 8.16(3.44) di-ex = 9.18(2.46) con= 8.21(1.54)	Inclusion/ Exclusion Criteria Include: Non-insulindependent type I diabetes 1) Diet (diet) 2) Exercise (exer) 2) Excroise (exer) 2) Exclude: None stated 3) Diet + exercise (diet) 4) Education (con) 4) Education (con) 4) Education (con) 4) Education (con) 5	Include: Non-insulindependent type II diabetes: 1) Diet (diet) 2) Exercise (exer) 4) Education (con) 4) Education (con) 4) Education (con) Age means (SD): diet = 54.87(12.32) exer = 53.81(8.04) ediex = 5.96(8.95) con = 54.5(8.83) Race % not given Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): Intention to treat: diet = 8.97(2.82) exer = 8.16(3.44) con = 8.21(1.54) Baseline HbA1c % means (SD): diet = 8.487(12.32) exer = 8.16(3.44) exer = 8.21(1.54) exer = 8.21(1.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
#6800 Kaplan, Hartwell, Wilson & Wallace, 198	7			model, positive feedback. 20 min stretch, 45-60 min walking, 5-10 min stretching, 30 min of group discussion. 3) Diet and Exercise—modified dietary intervention for the first 5 weeks. The 6 th meeting focused or exercise prescription, self-monitoring, foot care, and stretching. Remaining four meetings were conducted as: 20 min stretching, 45-60 min walking/jogging, and 30 min behavior modification 4)Education (control group)—10 two-hr. presentations over a 10 wk pd. From health care professionals. Provided no instructions, only information.			

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 4650 Kinsley, Weinger, Bajaj, Levy, Simonson, Quigley, Cox, Jacobson 1999		RCT with 2 treatment conditions: 1) BGAT group (BGAT) 2) Cholesterol awareness control group (con)	N = 60 n int = 25 n con = 22 *13 drop-outs (5 in int, 8 in con) Age mean (SD): 34(8) Age range: 19-50 % Female: 51.1 Race % not given Baseline HbA1c % mean (SD): Completers: 9.0 (1.1)	1) Intervention—8 session group education prograr in blood glucose awareness training (BGAT) 2) control—8 session cholesterol education group		COMPLETER RESULTS: 1) Metabolic control a) HbA1c % means (SD): con: 9.0 (1.1) base 7.8 (0.8) f/u int: 9.1 (1.4) base 7.9 (1.1) f/u *ANOVA indicated no significant effect of group on HbA1c at f/u. Both group showed significant within group changes. 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? No Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: No measures of risk assessed; intervention not described clearly

Study Selected Inclusion/ Exclusion Criter	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6110 Include: NIDDM, fasting blood glucos Laitinen, levels of 6.7 mmol/L or greater, 40-64 years old Winberg, Harmaakorpi- Exclude: not stated livonen, Uusitupa 1993		N = 86 n con = 46 n int = 40 *0 drop-out Age means (SD): con: men = 54.0(6.6) women = 54.4(6.4) int: men = 50.7(7.7) women = 53.7(6.3) % Female: con = 39.1% int = 47.5% Race % not given Baseline HbA1c % means (SD): Completers: con: 9.0 (2.6) int: 8.4 (2.2)	1) conventional treatment— received usual education given a local health centers (visited at 2- to 3-month intervals) and visited the outpatient clinic at 9 and 15 months 2) intervention— visited outpatient clinic every second month for 12 months (6 sessions). Received intensified dietary education, tailored diet plans for each individual behavio modification. Each visit, patient and nutritionist se two clear goals for dietary change and weight loss. Patients also completed food records that were used for diet counseling.	month follow up. t	COMPLETER RESULTS: 1) Metabolic control a) HbA1c % means (SD): con: 9.0 (2.6) base 7.8 (2.0) 3 mo 7.5 (1.7) 15 mo int: 8.4 (2.2) base 7.1 (1.8) 3 mo 6.6 (1.6) 15 mo *RM-MANOVA indicated a significant decrease in GHb for both groups at 3 mo (p<0.001 for both). Int group had significantly lower Ghb at 15 mo compared to con group (p<0.05). b) Fasting Blood Glucose-FBG (mmol/L) means (SD): con: 8.9 (3.3) base 7.5 (2.9) 3 mo 7.5 (2.2) 15 mo int: 7.6 (2.4) base 6.6 (1.9) 3 mo 6.2 (1.8) 15 mo *RM-MANOVA indicated a significant decrease in FBG for both groups at 3 mo (p<0.001 for both) int group had significantly lower FBG at 15 mo compared to con group (p<0.05). 2) Measures of risk: a) Weight (kg) means (SD): con: 92.2 (14.7) base 88.8 (14.0) 3 mo 90.2 (14.3) 15 mo int: 91.6 (14.5) base 88.3 (14.1) 3 mo 86.5 (13.7) 15 mo *RM-MANOVA indicated a significant	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? No EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? No Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: None noted

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6110						b) Serum Cholesterol means	(SD):
Laitinen,						con: 6.5 (1.1) base 6.3 (1.0) 3 mo	
Aloha, Sarkkinen,						6.4 (1.0) 15 mo int: 6.3 (1.4) base	
Winberg, Harmaakorpi-						6.1 (1.2) 3 mo 6.0 (1.0) 15 mo	un ifi a a mh
livonen, Uusitupa 1993	3					*RM-MANOVA indicated no sig decrease in serum cholesterol group.	
						c) Serum HDL-Cholesterol m (SD): con: 1.12 (0.26) base 1.17 (0.29) 3 mo 1.21 (0.28) 15 mo int: 1.07 (0.32) base 1.07 (0.25) 3 mo 1.20 (0.29) 15 mo *RM-MANOVA indicated a sign within-group increase in HDL-C group at 15 mo (p<0.001)	nificant
						3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	, ,	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 8950 Lamparski & Wing, 1989		RCT with 2 groups: 1) current feedback (cur) 2) noncurrent feedback (non)	Age mean (SD): 56.4 (7.1)	after estimating glycemic control, then re-estimated blood glucose	sessions conducted twice a week for four weeks, plus a pretest session and a posttest session.	1) Metabolic control: -Fasting Blood Glucose means (mg %) Estimated from graph: cur: 205 base 165 post non: 168 base 142 post * Statistical significance of differences between groups not given. 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized: Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. withdrawals stated? No EXTERNAL VALIDITY: Pop. Described? No Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: Results not clearly reported, no measures of risk assessed statistical analyses not reported for actual reduction ir blood glucose

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2050 Lane, McCaskill, Ross et al. 1993	Include: NIDDM, typi II, poor clinical contro (2-hr post-prandial glucose > 200 mg/dl. Exclude: Insulin	I with 2 groups: 1) control (con)	N= 38 n con= 19 n tx= 19 *6 drop-outs (4 -tx, 2-conl) Race % not given Week 1 GHb % means (SD): Completers: con: 10.1 (0.5) tx: 10.5 (0.6)	Both con and tx received intensive diabetes education Tx group also received weekly biofeedback-assisted relaxation training sessions which included progressive muscle relaxation training, plus 4 follow-up relaxation sessions at 3, 4, 5 and 6 months.		COMPLETER RESULTS: 1) Metabolic control: a) GHb% means (SD): con: 10.1 (0.5) Week 1 8.5 (0.4) Week 48 tx: 10.5 (0.6) Week 1 8.7 (0.3) Week 48 *RM-ANOVA did not show significant difference between con and tx at Weel 48. 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Patient baseline characteristics not clearly stated; Although some measures taken at baseline, not monitored throughout treatment (e.g. Weight)

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 380 Lustman, Griffith, Freeland, et al 1998	Include: Type II diabetes; age 21-70; major depression; score ≥14 on Beck Depression Inventory (BDI) Exclude: suicidal ideation or past suicide attempt; psychiatric comorbid illness	RCT- single-center design with 2 groups 1) control and 2) CBT	n CBT=25 *10 participants did not complete study Age means (SD): CBT= 53.1(10.5) control=56.4 (9.7) % Female: CBT: 60 control: 59.1 Race %: CBT: 85- White 15-non-White control: 77.3- White	individual diabetes education sessions.	follow-up at 6 mo.	1) Metabolic control: a a) GHb % change: control: -0.5 pre-post 0.9 post-f/u CBT: 0.1 pre-post -0.7 post-f/u * t-tests indicate significant difference of GHb between groups at f/u (p=0.04). 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given 4) Psychological Measures: -Depression (Beck Depression Inventory-BDI) % remitted (r) or improved (i): control: 27.3 r post 33.3 r f/u 36.6 i post 31.9 i f/u CBT: 85.0 r post 70.0 r f/u 70.0 i post 70.0 i f/u * ANCOVA indicated significant effects of group on BDI p<.04 † Higher scores on the BDI indicate more depressive symptoms.	No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? Yes No. withdrawals stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? Yes Patients assessed for DSM dx? Yes Biases, etc:

ı	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
Manning, in Jung, Leese, E & Newton a 1995	ages 16-70 Exclude: anyone who	(clin) 2) individual diet consultation with dexfenfluramine (dex) 3) individual diet consultation in clinic and home (home) 4) behavioral group therapy (beh)	N= 205 n clin= 37 n dex= 37 n home= 35 n beh= 38 n con= 58 * 44 patients did not complete study Age means: Intended to treat: clin: 57.3 dex: 54.4 home: 55.2 beh: 58.8 con: 53.7 Completers: clin: 58.4 dex: 54.7 home: 58.6 con: not given Age range: 16-70 % Female: Intended to treat: clin: 56.7 dex: 62.2 home: 42.9 beh: 47.4 con: 41.4 Completers: clin: 50.0 dex: 63.3 home: 35.7 beh: 42.9 con: not given Race % not given	1) Clin patients received individual diet consultations in clinic at 6-weekly stintervals for first 6 months, then 2- monthly for remainder of the year; dietary advice based on 1992 dietary recommendations 2) Dex patients received the same dietary advice as clin, but were additionally given dexfenfluramine twice a day for first 3 mo. 3) Home patients received the same dietary advice as clin, but were seen in both the clinic and at home. 4) Beh therapy involved a physiotherapist, a clinical psychologist, and a dietician 5) Con received no routine advice	·	1) Metabolic control: - HbA1c % means: Intended to treat: clin: 7.6 base 7.59 12 mo dex: 6.59 base 7.1 12 mo home: 6.52 base 6.86 12 mo beh: 6.04 base 5.72 12 mo Completers: clin: 7.6 base 7.46 12 mo dex: 6.79 base 7.07 12 mo home: 6.56 base 6.96 12 mo beh: 5.9 base 5.69 12 mo * ANOVA indicated that the groups were not significantly different from each other nor were they significantly different from control. Difference between intention to treat and completers not given. 2) Measures of risk: - Weight (kg) means: Intended to treat: Not given Completers: clin: 85.8 base 83.8 12 mo dex: 88.9 base 85.85 12 mo home: 92.4 base 91.4 12 mo beh: 89.5 base 86.4 12 mo	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? Yes Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? No Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Patient baseline characteristics not clearly stated; Control group statistics not displayed with intervention groups for any time assessments

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 690			Baseline HbA1c			* ANOVA indicated that the groups	
Manning,			means:			were not significantly different from each other, but all were significantly	
Jung, Leese,			Intended to treat:			different from control at 12 mo (p<0.0	11)
&Newton 199	5		clin: 7.6				
			dex: 6.59			3) Events:	
			home: 6.52			A) Health care utilization:	
			beh: 6.04			Not given	
			*con not given Completers:			b) Morbidity/mortality:Not given	
			clin: 7.6			Not given	
			dex: 6.79				
			home: 6.56				
			beh: 5.9				
			*con not given				

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 410 Manning, Jung, Leese, &Newton 1999	BMI 28-45	RCT with 5 groups: 1) individual diet consultation in clinic (clin) 2) individual diet consultation with dexfenfluramine (dex) 3) individual diet consultation in clinic and home (home) 4) behavioral group therapy (beh) 5) control (con)	N= 205 n clin= 37 n dex= 37 n home= 35 n beh= 38 n con= 58 * 44 patients did not complete studyclin: 12; dex: 7; home: 6; beh: 16; Age means: Intended to treat: clin: 56.4 dex: 54.5 home: 55 beh: 58.2 con: 53.3 Completers: clin: 57.6 dex: 54.9 home: 53.4 beh: 58.0 con: not given Age range: 16-70 % Female: Intended to treat: clin: 59.4 dex: 65.8 home: 79.3 beh: 47.2 con: 38.9 Completers: clin: 55.0 dex: 64.3 home: 34.8 beh: 45.0 con: not given	1) Clin patients received individual diet consultations in clinic at 6-weekly of tintervals for first 6 months, then 2- monthly for remainder of the year; dietary advice based on 1992 dietary recommendations 2) Dex patients received the same dietary advice as clin, but were additionally given dexfenfluramine twice a day for first 3 mo. 3) Home patients received the same dietary advice as clin, but were seen in both the clinic and at home. 4) Beh therapy involved a physiotherapist, a clinical psychologist, and a dietician 5) Con received no routine advice	year with post at 1 year and f/u at 14 years	- HDATC % Means:	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Large number of patients did not complete study, with different attrition numbers for groups

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 410 Manning,			Race % not given			* Reported dex group significantly reduced weight compared to control (p<.05). Statistical test not given	
Jung, Leese			Baseline HbA1c %			Completers:	
&Newton 199			means:			clin: -1.88 at 1 year -0.48 at 4 years	
			Intended to treat: clin: 7.77 dex: 6.28 home: 6.72 beh: 5.97 con: 7.02 Completers: clin: 7.77 dex: 6.43 home: 6.68 beh: 6.02 con: not given			dex: -3.01 at 1 year	
						Intended to treat: Deceased: clin: 4 dex: 1 home: 4 beh: 0 con: 3 Completers: Deceased: clin: 3 dex: 1 home: 4 beh: 0 con: not given	

Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
Include: Type I or II diabetes	RCT with 2 treatment conditions: 1) Control group 2) Experimental: a) 1-3 Support Group Meetings-SGM b) 4-8 Support Group Meetings-SGM	n con = 93 n exp = 111 *70 subjects were l lost by 7-month follow up due to l attrition- con: 29; 0-3 SGM: 38; 4-8 SGM: 3 Age range 20-81 % Female: con = 55 exp = 57 Race %: con: 74- Caucasian 17-African Amer 4- Hispanic exp: 70- Caucasian 22-African Amer 5- Hispanic Baseline HbA1 % means (SD): Intended to treat: con = 11.3 (2.8) exp = 1-3 SGM = 11.2(2.6 4-8 SGM = 11.3(3.2) *SGM—support	only—consisted of small groups (5-12 patients) emphasizing spatient self-management, monitoring of blood glucose, and adjusting insulin dosage. Blood samples were taken and patients were tested on their knowledge of diabetes, and given a questionnaire about demographics, diabetes management behaviors, emotion adjustment, health locus of control, and perceived need for support. Patients were	f Experimental 2 group had 8 weeks of suppor group sessions. 7-month follow-up.		QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? No EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Large number of subjects did not complete study
	Inclusion/ Exclusion Criteria	Inclusion/ Exclusion Criteria Include: Type I or II diabetes RCT with 2 treatment conditions: 1) Control group 2) Experimental: a) 1-3 Support Group Meetings-SGM b) 4-8 Support	Include: Type I or II diabetes RCT with 2 treatment conditions: n con = 93 n exp = 111 2) Experimental: a) 1-3 Support Group Meetings-SGM lost by 7-month b) 4-8 Support follow up due to Group Meetings-SGM attrition- con: 29; 0-3 SGM: 38; 4-8 SGM: 3 Age range 20-81 W Female: con = 55 exp = 57 Race %: con: 74- Caucasian 17-African Amer 4- Hispanic exp: 70- Caucasian 22-African Amer 5- Hispanic exp: 70- Caucasian 22-African Amer 5- Hispanic exp: 70- Caucasian 13 SGM: 11.3 (2.8) exp = 1-3 SGM = 11.2 (2.6 4-8 SGM = 11.3 (3.2) *SGM—support	Include: Type I or II diabetes RCT with 2 treatment N = 204	Inclusion/ Exclusion Criteria Include: Type I or II diabetes	Include: Type I or II diabetes RCT with 2 treatment conditions:

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3180 Maxwell, Hunt, Bush, 1992				meetings. After the 5 day training and education session.		b) HDL-Cholesterol means (SD): con: 49 (17) base 49 (15) 7 mo 1-3 SGM: 47 (18) base 46 (14) 7 mo 4-8 SGM: 41 (9) base 41 (11) 7 mo *ANOVA indicated no significant between-group differences. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given 4) Psychological Measures: a) Emotional Adjustment- ATT39 Revised t. con: 2.9 (0.3) base 3.1 (0.4) 7 mo 1-3 SGM: 2.9 (0.4) base 3.0 (0.3) 7 mo 4-8 SGM: 2.9 (0.3) base 3.0 (0.4) 7 mo *ANOVA indicated no significant	
						t Higher scores on the ATT39 indicates better emotional adjustment to diabetes.	ited

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 170 Mayer-Davis, D'Antonio, Martin et al 2001	Include: Type II Diabetes, ≥ 50 years old, BMI ≥ 25 Exclude: those with significant comorbidities that would prevent safe or appropriate weight loss	RCT-single center with 2 groups: 1) intensive lifestyle intervention (con) 2) intensive lifestyle intervention plus formal evaluation (tx)	computed in the data analysis	d weight management intervention—low calorie and low-fat diet, moderate physical activity, self-monitoring of eating and physica activity, therapist monitoring and support and problem solving. Ty group received formal continuous quality improvement	(COMPLETER RESULTS 1) Metabolic control: - FBG (mg/dl) means (SD): 158.41 (60.38) base 132.35 (36.2) post *Significant difference in FBG (p<0.03)- test not given 2) Measures of risk: - Weight * Weight loss did not differ between groups. Statistical test not given. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization - clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: Results not analyzed by group

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6920 Mazzuca, Moorman, Wheeler et al. 1986	Include: diabetes diagnosis based on 2 FBS> 130 mg/dl or 1 FBS > 150 mg/dl or 2: hr post-prandial BS >250 mg/dl; ability to perform ≥2 self-care tasks Exclude: psychiatric comorbidity; terminal illness	1) control (con) 2) patient education (pat) 3) physician education (phy) 4) patient & physician education (patphy)	group not given Age Median: Intended to treat:	Education treatment intervention consisted of three parts: 1) didactic -instruction using lecture, discussion, demonstration and feedback 2) goal setting exercises where patients set compliance goals and signed contracts with instructors 3) reinforcement schedule where patients were contacted by phone 2 and 6 weeks after instruction		COMPLETER RESULTS: 1) Metabolic control a) HbA1 means: con: 10.19 base 10.74 post pat: 10.17 base 10.23 post phy: 10.51 base 10.65 post patphy: 11.34 base 10.42 post *ANOVA indicated pat and patphy significantly different from other groups (p<0.05) b) Fasting Blood Glucose (FBG) (mg/dl) means: con: 201.1 base 208.7 post pat: 213.8 base 197.7 post phy: 209.6 base 196.5 post patphy: 229.2 base 190.2 post *t-test (con + phy vs. pat Vs patphy) indicated significant differences on FBG (p<0.05) 2) Measures of risk: a) Weight (kg) means: con: 84.04 base 84.54 post pat: 84.63 base 83.02 post phy: 85.65 base 84.08 post patphy: 87.89 base 85.77 post *ANCOVA indicated no significant effect of group on weight loss.	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? Yes Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? No EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Large number of withdrawals from study: death: 30; physical/psychological incapacitation: 43; physician transfer: 32; relocation: 13; work conflict: 24; personal reasons: 45; failure to keep appointments: 11; lost contact by phone and mail: 58

Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
					b) Systolic blood pressure-SBP	
					con: 137.2 base 144.9 post pat: 139.9 base 138.9 post phy: 142.5 base 146.4 post patphy: 140.4 base	
					*ANCOVA indicated no significant effect of group on SBP.	
					c) Diastolic blood pressure-DBP means: con: 81.4 base 85.2 post pat: 84.7 base 82.4 post phy: 83.1 base 83.4 post patphy: 81.8 base 81.3 post *ANCOVA indicated no significant effect of group on DBP.	
					a) Health care utilization: Not given b) Morbidity/mortality: Not given	
	Inclusion/	Inclusion/ Exclusion Criteria	Inclusion/ Exclusion Criteria	Inclusion/ Exclusion Criteria	Inclusion/ Duration Exclusion Criteria	Inclusion/ Exclusion Criteria b) Systolic blood pressure-SBP means:

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2970 McGrady, Bailey & Good 1991	Include: type I diabetes for at least a year, at least 21, Invitten permission from physician. Exclude: pregnant women	RCT-single center with 2 groups: 1) control (con) 2) biofeedback-assisted relaxation (tx)	N= 19 n con= 8 n tx= 10 * 1 patient in the control group did not complete study Age mean (SD): 42 (9.5) age range: 26-55 72% Female Race %: 100- Caucasian Baseline Blood Glucose (mM) means (SD): Completers: con: 9.62 (1.13) tx: 9.14 (2.69)	Con group was counseled in the management of glycemic problems TX group sessions consisted of biofeedback-assisted relaxation along with taped instructions for autogenic training and progressive relaxation.	minutes) `	COMPLETER RESULTS: 1) Metabolic control: - Blood Glucose (mM) means (SD): con: 9.62 (1.13) pre 9.67 (1.2) post tx: 9.14 (2.69) pre 7.19 (1.25) post *ANOVA indicated post test values were significantly different between groups (p=0.0009) 2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Small sample; no additional measures of risk assessed; results not displayed clearly; control subjects later received tx and showed significant statistical improvements

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients		Treatment Duration	Outcomes/Results	Comments
# 350 McGrady & Horner 1999	Include: IDDM > 1 year duration; Exclude: severe diabetic complications severe psychiatric disorders; other chronic non-diabetes- related illnesses	RCT- single-center design with 2 groups 1) control 2) biofeedback	n biofeedback=9 *7 dropped before randomization Age mean: 41 Age range=21-64 % Female: 44 Completer Race %: 88.9- Caucasian	Both control and treatment groups monitored blood glucose and reviewed logs biweekly with nurse. Biofeedback group participated in twelve 45-minute sessions of biofeedback assisted relaxation. Focused on autogenic phrases and diaphragmatic breathing.	twelve-session completion. Follow up at 1 mo and 3 mo.		QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized: Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. withdrawals stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: Participants received treatment for varied lengths of time; investigators note small sample size; drop-outs all women, younger, and had

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2370 Oh, Kim, Yon & Choi 2003	Include: diabetes; ability to perform self-care tasks Exclude: HbA1c<7%; psychiatric comorbidity; severe medical illness	RCT with 2 groups:		sessions consistir of continuous education and reinforcement of	e within 12-week ig time period	COMPLETER RESULTS: 1) Metabolic control: a) HbA1c means (SD) con: 8.4 (1) base 9.0 (1.2) post tx: 8.9 (1.2) base 7.7 (1) post *t-tests indicated significantly greater decreases in HbA1c in the tx group than con (p=0.000). b) Fasting blood glucose- FBG (mg/dl) means (SD): con: 180.2 (62.4) base 173.3 (53.4) post tx: 176.6 (56) base 160.9 (56.8) post *t-tests indicated no significant difference between groups at post c) 2-hour postprandial blood glucose- PP2h (mg/dl) means (SD): con: 278 (71.7) base 297.6 (89.1) post tx: 302.8 (94) base 260.2 (76.6) post *t-test indicate no significant differences between groups at post 2) Measures of risk: - BMI means (SD): con: 24.5 (2.6) base 24.7 (2.6) post tx: 24.6 (2.8) base 24.9 (2.8) post *t-tests indicated no significant differences between groups at post	enough to reproduce? No Intervention codified in manual? No Provider training described?
						Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2910 Perry, Mann, Lewis-Barned Duncan, Waldron & Thompson, 1997.	Include: IDDM > 1 year duration; age 20- 69 years old I, Exclude: severe comorbid illness or disability	RCT with 2 treatment conditions: 1) intensive (Group 1) 2) standard (Group 2) -Participants switched conditions for the second six months of the study	n Grp1 = 31 n Grp2 = 30 * no withdrawals d Age means (SD): Completers:	1) Intensive—participants met with research team monthly to achieve dietary goals balanced with insulin regimens, and to increase physical activity—translated into individualized dietary and exercise prescriptions. Participants were provided with a resource booklet and were asked to record food, exercise and lab results. Physical fitness appraisal and training program was administered to those participants deemed eligible 2) Standard care—consisted ousual diabetes care from GP or Diabetes clinic once every 3 months.	group one received in the first six months; and group 1 received the standard program.	COMPLETER RESULTS: 1) Metabolic control a) HbA1 % means (SD): Grp1: 8.9 (2.6) base 8.6 (2.1) 6 mo 8.4 (1.8) 12 mo Grp2: 8.7 (2.0) base 8.8 (2.3) 6 mo 7.9 (1.5) 12 mo *RM-ANOVA indicates significant difference between groups in change in the control of the con	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? in No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Overall, Grp2 showed significant change on many outcomes after switched to treatment.

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2910						c) HDL-Cholesterol means (SD): Grp1: 1.2 (0.2) base	
Perry, Mann, Lewis- Barned,						1.3 (0.3) 6 mo 1.3 (0.3) 12 mo Grp2: 1.3 (0.3) base	
Duncan,						1.3 (0.4) 6 mo	
Waldron &						1.3 (0.3) 12 mo	
Thompson,						*RM-ANOVA indicates no significant	
1997.						between group differences.	
						d) LDL-Cholesterol means (SD):	
						Grp1: 3.1 (0.9) base ` ´	
						3.1 (0.9) 6 mo	
						3.1 (0.9) 12 mo	
						Grp2: 3.5 (0.9) base	
						3.7 (1.0) 6 mo	
						3.4 (0.9) 12 mo	
						*RM-ANOVA indicated significant difference between groups at 6 mo	
						(p=0.022)	
						(β=0.022)	
						e) Systolic blood pressure-SBP	
						means (SD):	
						Grp1: 127 (21) base	
						128 (17) 6 mo	
						127 (18) 12 mo	
						Grp2: 131 (18) base	
						134 (17) 6 mo	
						129 (15) 12 mo *RM-ANOVA indicates significant	
						decrease in SBP in Grp2 from 6 to 12	2
						mo (p=0.002)	=
						πο (ρ 0.002)	

Study Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 1090 Include: NIDDM, younger than 65, not receiving insulin, fasting serum glucose Wilson, Streja levels over 135 mg/dl, and physician assessment of diabetes being "stable" Exclude: not stated	Individualized dietary review and	N = 40 n.beh = 20 n ind = 20 *2 subjects excluded due to illness, and disinterest (both in ind) Age means (SD): beh = 52.7(1.7) ind = 55.0(2.2) % Female: Beh = 65% Ind = 50% Race % not given Baseline Fasting Serum Glucose (mg/dl) means (SD): Intention to treat: ind = 221(12) beh = 221(16)	diabetes and its complications. Taught meal planning and given a tailored meal plan. Counseled on the necessity of losing weight. Follow up 6 and 12 weeks later. 2) Behavioral—6 1.5 hour weekly group meetings aimed at behavioral	Follow-up at 6 and 12 weeks	COMPLETER RESULTS: 1) Metabolic control a) Fasting Serum Glucose (mg/dl) Change means (SD): ind: -18 (9) base-6 weeks -26 (10) base-12 weeks beh: -22 (10) base-12 weeks 't-tests indicated no significant differences in fasting serum glucose between groups, but there were significant reductions within group for beh at 6-weeks. 2) Measures of risk: a) Weight (kg) Change means (SD): ind: -1.7 (0.05) base-6 weeks -3.0 (0.5) base-12 weeks beh: -0.4 (0.6) base-6 weeks -0.9 (0.4) base-12 weeks *t-tests indicated a significant difference in weight change, with ind group losing significantly more than beh group at 12 weeks (p<0.01) b) LDL-Cholesterol Change means Estimated from Graph: ind: 5.0 base-6 weeks 2.0 base-12 weeks beh:: 5.0 base-6 weeks 1.0 base-12 weeks *t-tests indicated no significant differences between groups in LDL-C. c) HDL-Cholesterol Change means Estimated from Graph: ind: -3.0 base-6 weeks 1.0 base-12 weeks	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? Yes Patients assessed for DSM dx? No Biases, etc: means (SD) not reported for all measures;

Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
			·		*t-tests indicated no significant	
			observation with		differences between groups in Tible-O	•
			daily eating		3) Events:	
eja			records.		a) Health care utilization:	
	Inclusion/ Exclusion Criteria	Inclusion/ Exclusion Criteria	Inclusion/ Exclusion Criteria	Inclusion/ Exclusion Criteria with emotions, an encouraging self-observation with daily eating	Inclusion/ Exclusion Criteria with emotions, and encouraging self-observation with daily eating	Inclusion/ Exclusion Criteria with emotions, and encouraging selfobservation with daily eating Duration *t-tests indicated no significant differences between groups in HDL-Conservation with daily eating 3) Events:

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3820 Rickheim, Weaver, Flader, Kendall 2002	Include: Type II diabetes; either newly diagnosed with diabetes or no history of prior systematic diabetes education; age 30-80 Exclude: Mental disability	Group education setting (grp) Individual education (ind)	N = 170 n grp= 87 n ind = 83 *78 patients did not complete 6 month follow-up- grp: 44; ind: 34 Age means (SD): grp = 51.6 (9.2) ind = 52.9 (12.8) % Female: grp = 64.4 ind = 67.5 Race % not given Baseline HbA1c means (SD): Intended to treat: grp = 8.9 (1.9) ind = 8.0 (1.7) Completers: grp: 9.0 (1.6) ind: 8.2 (1.7)	Both group and individual educational sessions received same curriculum with ind group receiving individual sessions, while grp group had groups sessions occurred four separate times for a total of about 5-7 hrs of education. Topics discussed were: carb counting, portion control, meal spacing, self-monitoring for blood glucose, physical activity, heart-healthy eating, foot care, sick day management, complications, problem solving, and progression of type II diabetes. Patients kept food and bg records.	7 hrs) 3 and 6 month follow-up	-COMPLETER RESULTS: 1) Metabolic control: - HbA1c means (SD): grp: 9.0 (1.6) base 6.5 (0.7) 6 mo ind: 8.2 (1.7) base 6.5 (0.9) 6 mo *t-tests indicated both groups significantly decreased HbA1c (p<0.01 for both), with grp showing greater improvement than ind, but groups were not significantly different from each other at 6 mo. 2) Measures of risk: a) BMI means (SD): grp: 34.1 (5.9) base	Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 310 Ridgeway, Harvill, Harvil et al. 1999		1) control (con) 2) behavior modification (tx)	N= 56 n con=20 n tx= 18 * 18 patients withdrew from study: con: 8; tx: 10 Age means: con: 65 tx: 62 %Female: con: 67 tx: 75 Race % not given Baseline GHb % means (SD): con: 12.3 (3) tx: 12.3 (2.2)	Tx group received both education and behavior modification components: 0 education: designed to help patients understand diabetes, its treatments and its consequences behavior modification: patients given individualized diet and exercise instructions, contracts to emphasize personal responsibility, and feedback and sociareinforcement was given. Control group completed assessments but received no behavior modification	1.5 hours a month for six months. F/u at 12 mo.	COMPLETER RESULTS: 1) Metabolic control a) GHb % means: con: 12.26 base 11.18 6 mo 11.64 12 mo tx: 12.28 base 10.21 6 mo 11.52 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.17) and 12 mo (p=0.87). b) Fasting Blood Glucose-FBG means: con: 210 base 195 6 mo 185 12 mo tx: 215 base 180 6 mo 205 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.32) and 12 mo (p=0.51). 2) Measures of risk: a) Weight (lbs) means: con: 189 base 185 6 mo 186 12 mo tx: 194 base 190 6 mo 186 12 mo *t-tests indicated no significant differences between groups at 6 mo 186 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.94) and 12 mo (p=0.20).	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? Yes Patients assessed for DSM dx? No Biases, etc: Results not presented clearly Small sample with high number of withdrawals (n=18)

# 310 Ridgeway, Harvill, Harvill et al 1999 Biggin and a service of the service	# 310	
Ridgeway, 233 6 mo Harvill, Harvill 234 12 mo bt: 259 base 221 6 mo 219 12 mo **t-tests indicated a significant differences between groups at 6 mo (p=0.167) but not at 12 mo (p=0.09). c) HDL-Cholesterol means: con: 40 base 37 6 mo 37 12 mo tx: 40 base 39 6 mo 36 12 mo **t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo t-tests indicated no significant differences between groups at 6 mo *t-tests indicated no significant differences between groups at 6 mo		
### ##################################		
et al 1999 tx: 259 base 221 6 mo 219 12 mo 13 mo 12 mo 13 mo 12 mo 13 m		
221 6 mo 219 12 mo *t-tests indicated a significant differences between groups at 6 mo (p=0.167) but not at 12 mo (p=0.09). c) HDL-Cholesterol means: con: 40 base 37 6 mo 37 12 mo tx: 40 base 39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant		
219 12 mo *t-tests indicated a significant differences between groups at 6 mo (p=0.167) but not at 12 mo (p=0.09). c) HDL-Cholesterol means: con: 40 base 37 6 mo 37 12 mo tx: 40 base 39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64).		
*t-tests indicated a significant differences between groups at 6 mo (p=0.167) but not at 12 mo (p=0.09). c) HDL-Cholesterol means: con: 40 base 37 6 mo 37 12 mo tx: 40 base 39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64).		
differences between groups at 6 mo (p=0.167) but not at 12 mo (p=0.09). c) HDL-Cholesterol means:		
(p=0.167) but not at 12 mo (p=0.09). c) HDL-Cholesterol means:		
c) HDL-Cholesterol means: con: 40 base 37 6 mo 37 12 mo tx: 40 base 39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo		
con: 40 base 37 6 mo 37 12 mo tx: 40 base 39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo	(p=0.167) but i	not at 12 mo (p=0.09).
con: 40 base 37 6 mo 37 12 mo tx: 40 base 39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo	c) HDL-Choles	sterol means:
37 6 mo 37 12 mo tx: 40 base 39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo		
tx: 40 base 39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo		
39 6 mo 36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo	37	7 12 mo
36 12 mo *t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means:	tx: 40) base
*t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means:	39	9 6 mo
*t-tests indicated no significant differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means:	36	3 12 mo
differences between groups at 6 mo (p=0.26) and 12 mo (p=0.64). d) LDL-Cholesterol means:	*t-tests indicate	ted no significant
d) LDL-Cholesterol means: con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo		
con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo	(p=0.26) and 1	12 mo (p=0.64).
con: 119 base 116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo	d) I DI -Chol	lesterol means:
116 6 mo 125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo		
125 12 mo tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo		
tx: 133 base 113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo		10 0 1110
113 6 mo* 130 12 mo *t-tests indicated no significant differences between groups at 6 mo		33 base
130 12 mo *t-tests indicated no significant differences between groups at 6 mo		
*t-tests indicated no significant differences between groups at 6 mo		
differences between groups at 6 mo		

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
Cole & McGill 1991.	Include: adults with type I or II diabetes; GHb >8% Exclude: acute psychiatric illness; life threatening medical illness; on insulin pump; non-literate	RCT with 2 treatment conditions: 1) control group 2) experimental group	n con = 31 n exp = 30	1) control patients received comprehensive 3-day evaluation and educational program 2) experimental intervention involved a 45-min patient activation intervention including the discussion of information seeking and decision making, and introduction a decision tree, taking active roles past difficulties in communication with physicians, common obstacles/strategirs to overcome them, and writing down questions the patient wants to ask the physician. A 1-hr self-administered booster was completed by those in the experimental group in addition to the program	eval. Experimental— 45 min session and 1-hr take home instructional package 4 month post- discharge follow- up.	COMPLETER RESULTS: 1) Metabolic control: -GHb % means (SD): con: 13.5 (3.6 base 12.4 (3.3) f/u exp: 13.0 (3.5) base 11.8 (3.0) f/u *ANCOVA indicated the groups were not significantly different at f/u. -2) Measures of risk: Not given 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? Yes Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? No EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: No measures of weight, cholesterol, or blood pressure assessed

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 3200				consisting of tips o	n		
Rost, Flavin,				question			
Cole & McGill	,			construction,			
1991.				question introduction and			
				clarification, with a			
				simulated medical			
				visit and a role plage exercise.	y		

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 4880 Sadur, Moline Costa, et al., 1999.	HbA1c>8.5%; no	RCT with 2 treatment conditions: 1) Diabetes Cooperative Care Clinic Intervention (int 2) Control (con)	n int = 97 n con = 88 *29 drop-outs: con:		o I	COMPLETER RESULTS: 1) Metabolic control: - HbA1c % means: int: 9.48 base 8.18 post con: 9.55 base 9.33 post * ANOVA indicated a significant difference in HbA1c between groups at post (p<0.0001). 2) Measures of risk: Not given 3) Events: a) Health care utilization: i) Hospitalization Rates Estimated from Graph: int: 18 pre-randomization 16 post-randomization con: 17 pre-randomization con: 17 pre-randomization * ANOVA indicated a significant difference in hospitalizations at post-randomization (p=0.04) ii) Nutritionist visited in last 2 years int: 50 base 85 post con: 40 base 39 post * ANOVA indicated a significant difference in number indicating having visited a nutritionist between groups at	Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: No measures of risk assessed; first cohort so small all assigned to int (non-

Study	Selected Inclusion/ Exclusion Crite	Study Design eria	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 4880						iii) Physician visits Estimat	ed from
						Graph :	
Sadur, Moli						int: 310 base	
Costa, et al	.,					250 during	
1999.						270 post	
						con: 360 base	
						340 during	
						370 post	
						*ANOVA indicated no significal	nt
						differences between groups in	
						physician visits.	
						b) Morbidity/mortality:	
						Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 550 Smith, Heckemeyer, Kratt, & Mason, 1997	Include: NIDDM; women; weight 120- 200% ideal body weight; age>50 years old Exclude: insulin treatment; cardiovascular disease; inability to walk for exercise	(standard)	n st = 10	program incorporating	4-month post- treatment assessment	COMPLETER RESULTS: 1) Metabolic control a) GHb % means (SD): st: 10.8 (3.1) post mot: 9.8 (1.3) post *ANCOVA indicated significant effect or group on GHb at post (p=0.05): 2) Measures of risk: a) Weight (kg) Change means (SD): st: 4.5 (2.2) base-post mot: 5.5 (3.9) base-post *ANCOVA indicated no significant effect of group on weight loss. 3) Events a) Health care utilization: Not given b) Morbidity/mortality: Not given	Concealment of allocation?

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 550				2) Same as			
Smith, Heckemeyer, Kratt, & Mason, 1997				standard with three individualized motivational interviewing session added (one at the beginning and two at mid-treatment). Interviews explored ambivalence about behavior change, elicited personal goals and self-motivational statements, formulated personal goals, and identified barriers to change. Therapist uses open-ended questions and reflective listening.	d : al		

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 130 Surwit, van Tilburg, Zucker et al. 2002	Include: Type II diabetes; ≥30 years old; diabetes currently managed by diet, exercise, and/or oral medication Exclude: Prior training in relaxation or stress management; current use of psychoactive drugs; current psychiatric treatment; use of insulin; pregnancy or lactation	2) stress managemen (tx)	n tx= 38 nt* 36 patients did no complete study: con: 9; tx: 17 Age means (SD): con: 58.33(11.33) tx: 56.53 % Female: con: 43.8 tx: 40 Race %: con: 87.5- Caucasian 10.4- African Amer. int: 85- Caucasian	1) progressive muscle relaxation (consecutively tensing and relaxing a prescribed set of muscles) 2) instruction in the use of cognitive behavioral skills to recognize and reduce physiological stress levels r 3) education on the health consequences of stress; Diabetes education focused on		-HDA1c % means Estimated from	Large number of withdrawals from study (n=36) with differential drop-out between groups; f/u results not presented in table; results for some measures taken at baseline not reported for f/u

,	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
	Include: Type II diabetes; age <80 years; followed ≥ 1 year Exclude: insulintreated	RCT with 2 treatment conditions: 1) group care (grp) 2) individual educatior control (ind)	n grp = 56 n ind = 56	1) Group care—educational sessions held every 3 months discussion food choices, meal planning, physical exercise, metabolic control, smoke cessation, medication and complications 2) individual (control)—3-monthly visits in general diabetes clinic. Info on diabetes self-care and educational reinforcement were offered with special reference to eating habits home monitoring of blood glucose and preventing complications plus one-to-one educational reinforcement yearly	4 years	COMPLETER RESULTS: 1) Metabolic control a) HbA1c % means (SD): grp = 7.4 (1.4) base 7.0 (1.1) 4 yr ind = 7.4 (1.4) base 8.6 (2.1) 4 yr * Reported a significant difference in HbA1c at 4 yr. Statistical test and p value not given. b) Fasting Blood Glucose means (SD): grp = 9.8 (2.6) base 9.3 (2.6) 4 yr ind = 10.2 (3.2) base 11.0 (4.6) 4 yr * Reported no significant differences in fasting blood glucose between groups at 4 yr. Statistical test and p value not given. 2) Measures of risk: a) Weight (kg) means (SD): grp = 77.8 (13.6) base 75.2 (13.0) 4 yr ind = 77.8 (15) base 76.9 (16.1) 4 yr * Reported no significant differences in weight between groups at 4 yr. Statistical test and p value not given. b) Systolic blood pressure-SBP means (SD): grp = 160 (26) base 154 (21) 4 yr ind = 151 (19) base 149 (15) 4 yr * Reported no significant differences in SBP between groups at 4 yr. Statistical test and p value not given.	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? Yes Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Statistical analyses not reported clearly

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 2360						c) Diastolic blood pressure-DBP	
Trento, Passera, Bajardi, et al., 2002						means (SD): grp = 95 (11) base 88 (7) 4 yr ind = 92 (10) base 86 (9) 4 yr * Reported no significant differences DBP between groups at 4 yr. Statisti test and p value not given. d) Total Cholesterol means (SD): grp = 5.84 (1.11) base 5.77 (1.34) 4 yr ind = 5.46 (0.93) base 5.59 (1.29) 4 yr * Reported no significant differences total cholesterol between groups at 4 yr. Statistical test and p value not given.	cal
						e) HDL-Cholesterol means (SD): grp = 1.27 (0.31) base 1.42 (0.31) 4 yr ind = 1.32 (0.31) base 1.37 (0.28) 4 yr * Reported no significant differences HDL-C between groups at 4 yr. Statistical test and p value not given. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6240 Vanninen, Uusitupa, Siitonen, Laitinen, & Lansimies, 1992.	Include: Newly diagnosed type II diabetes patients; 40- 64 years old; blood glucose >6.7 mmol/I Exclude: comorbid chronic diseases affecting glucose tolerance	RCT with 2 treatment conditions: 1) Conventional treatment (con) 2) Intervention (int)	N = 78 n con = 40 n int = 38 *4 participants did not complete study. Age means (SD): Men: 53 (7) Women: 54 (6) % Female: 42.3 con: 40 int = 44.7 Race % not given Baseline HbA1c % means (SD): Intended to treat: con: men = 7.3 (1.7) women = 8.1 (2.4) int: men = 7.1 (1.5) women = 7.1 (1.5)	1) Intervention—physician gave printed and oral instructions for effective exercise training. Physical activity was regularly monitored by daily exercise records. Participants were encouraged to increase their physical activity level over the course of bimonthly visits to the outpatient clinic for the 12 month treatment pd. 2) basic information session attended by all subjects—two sessions (at baseline and 6 weeks) where participants received information concerning the benefits of diet and exercise.	bi-monthly visits	COMPLETER RESULTS: 1) Metabolic control: a) HbA1c means % (SD): con: men: 7.3 (1.7) base 7.4 (1.6) 12 mo women: 8.1 (2.4) base 7.2 (1.6) 12 mo int: men: 7.1 (1.5) base 7.0 (1.9) 12 mo women: 7.1 (1.5) base 6.2 (1.0) 12 mo *RM-ANOVA indicated a significant difference in HbA1c for women between groups at 12 mo (p<0.05). b) Fasting Blood Glucose (mmol/l) means (SD): con: men: 6.7 (2.2) base 7.3 (2.2) 12 mo women: 8.5 (3.5) base 7.2 (1.9) 12 mo int: men: 6.6 (2.1) base 6.7 (2.1) 12 mo women: 6.3 (1.2) base 5.7 (1.4) 12 mo *RM-ANOVA indicated a significant difference in fasting blood glucose for women between groups at 12 mo (p<0.05).	QUALITY ASSESMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? No EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Change by gender was a secondary analysis

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6240						2) Measures of risk:	
Vanninen, Uusitupa, Siitonen, Laitinen, & Lansimies, 1992.						a) Body Mass Index-BMI means (SD): con: men: 30.1 (3.1) base 30.9 (3.3) 12 mo women: 34.2 (6.2) base 34.0 (5.9) 12 mo int: men: 31.1 (3.7) base 30.5 (3.6) 12 mo women: 33.4 (6.7) base 32.6 (6.5) 12 mo *RM-ANOVA indicated a significant difference in BMI for men over time both con (p<0.01) and int (p<0.05).	for
						b) Serum Cholesterol means- mmol/l (SD): con: men: 6.1 (1.0) base 6.2 (1.0) 12 mo women: 6.5 (0.8) base 6.7 (0.7) 12 mo int: men: 6.3 (1.2) base 6.0 (1.0) 12 mo women: 6.0 (1.2) base 6.0 (1.0) 12 mo *RM-ANOVA indicated a significant difference in serum cholesterol for women across groups at 12 mo (p<0.05).	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 6240						c) HDL-Cholesterol means- mmol/l (SD):	
Vanninen, Uusitupa, Siitonen, Laitinen, & Lansimies, 1992.						con: men: 1.1 (0.24) base 1.15 (0.27) 12 mo women: 1.25 (0.36) base 1.29 (0.29) 12 mo int: men: 1.0 (0.28) base 1.11 (0.28) 12 mo women: 1.13 (0.18) base 1.25 (0.22) 12 mo *RM-ANOVA indicated a significant difference in HDL-C for both men (p<0.05) and women (p<0.01) in int group over time.	
						3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 1030 White, Carnahan, Nugent et al. 1986	Include: men with NIDDM; less than satisfactory control of glucose; infrequent hypoglycemic reactions; body weigh >15% above mean value for height Exclude: history of alcohol abuse; history of severe personality disorder; current use of glucocorticoids	2) group managemen (tx) t	N= 41 n con=16 n tx= 16 t*9 participants did not complete study: con: 5; tx: 4 Age means (SD): Intended to Treat: con: 60.7 (6.9) tx: 62.4 (6.1) Completers: con: 60.7 (6.4) tx: 62.4 (5.5) % Female: 0 Race % not given Baseline GHb % means (SD): Intended to Treat: con: 11.5 (3.5) tx: 11.0 (2.6) Completers: con: 11.3 (3.5) tx: 10.4 (2.6)	The treatment group was divided into smaller groups in which they were encouraged to interact and assess each other's progress and to offer advice and support, using problem solving format. The advice-education group minimized patient interaction, with instructors lecturing on the disease and its management.	6 mo. period	r COMPLETER RESULTS 1) Metabolic control:	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: Results not reported in table- form; statistical analyses not reported clearly; small sample with large number of drop-

Study	Selected Inclusion/ Exclusion Criteria	, ,	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 8640 Williams, Mullen, Lang Considine, and Wing, 1999.	J, years ago, were at least 120% of ideal body weight, were not receiving insulin Exclude: those with history of	weeks 2,7, 12, 17. (Treatment 1). 3) VLCD for 5 consecutive days in week 2, then 1 day a week for weeks 3-17 (Treatment 2).	*7 subjects withdrew after 3 weeks and their data were analyzed separately Age mean (SD): 52.0 (7.9) 57.4% Female Race: 79.6- Caucasian 18.5- African Amer 1.9- Hispanic Baseline HbA1c % mean (SD): 8.1(1.7) *all participants combined	overcoming behavioral impediments of weight loss. Subjects also received written feedback based or diary content. 2) control group was assigned to a	obtained at baseline, week 3, 10 and 20.	COMPLETER RESULTS: 1) Metabolic control: HbA1c % means and significance no reported by intervention group. 2) Measures of risk: a) Weight-kg means and significance not reported by intervention group. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	Yes Method of randomization clearly described? No Concealment of allocation?

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 8640				4) VLCD for 5 consecutive days			
Williams,	_			in week 2 then for	r		
Mullen, Lang Considine,] ,			one day a week for weeks 3 through	or		
and Wing,				17. In the			
1999.				remaining days the participant was	ie		
				assigned a			
				moderate caloric restriction of 1500			
				to 1800 kcal/day			

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 430 Williams, Kelley, Mullen, & Wing, 1998.	Include: Type II diabetes; age 30-70; >20% above ideal body weight based on established norms Exclude: history of liver, renal, or heart disease that would contradict the use of a very low calorie diet	2) 1-day very low- calorie diet- (1vlcd) 3) 5-day very low- calorie diet- (5vlcd)	n sbt = 18 n 1vlcd = 18 n 5vlcd = 18 *7 drop-outs Age means (SD): sbt = 54.1(7) 1vlcd = 51.4 (7.9) 5vlcd = 50.3 (8.6) % Female: sbt = 61.6 1vlcd = 50 5vlcd = 61.6 Race %: sbt: 88.9- Caucasian 11.1- African American 1vlcd: 83.3- Caucasian 11.1- African American 5.6- Hispanic	consecutive days in week two, followed by intermittent VLCD for 1 day/week for the next 15 weeks	g O	COMPLETER RESULTS: 1) Metabolic control a) HbA1c Change means (SD): sbt: -0.03 (1.03) base-10 wk 1vlcd: -0.65 (1.35) base-10 wk 5vlcd: -0.40 (1.14) base-10 wk * ANOVA indicated no significant differences in HbA1c changes between groups (p=0.38). 2) Measures of risk: a) Total Cholesterol means (SD): sbt: 5.46 (1.17) base 5.03 (0.95) 10 wk 5.21 (1.06) 20 wk 1vlcd: 5.6 (1.01) base 5.1 (1.39) 10 wk 5.29 (1.33) 20 wk 5vlcd: 5.26 (0.91) base 5.01 (0.85) 10 wk 4.96 (0.76) 20 wk * ANOVA indicated no significant differences in total cholesterol between groups. b) LDL-Cholesterol means (SD): sbt: 3.31 (1.01) base 3.08 (0.66) 10 wk 3.12 (0.71) 20 wk 1vlcd: 3.48 (0.87) base 3.15 (1.08) 10 wk 3.33 (1.08) 20 wk 5vlcd: 3.36 (0.69) base 3.21 (0.63) 10 wk 3.17 (0.56) 20 wk * ANOVA indicated no significant differences in total cholesterol between groups.	Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 430 Williams, Kelley, Mullen, & Wing, 1998.						c) HDL-Cholesterol means (S sbt: 1.20 (0.30) base 1.07 (0.24) 10 wk 1.05 (0.30) 20 wk 1vlcd: 1.10 (0.20) base 1.03 (0.19) 10 wk 1.13 (0.23) 20 wk 5vlcd: 1.09 (0.17) base 1.06 (0.21) 10 wk 1.08 (0.22) 20 wk * ANOVA indicated no significar differences in total cholesterol b groups.	nt
						3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients		Treatment Duration	Outcomes/Results	Comments	
# 640	Include: >30% or >18		N= 93	All participants	12 months,	COMPLETER RESULTS:	QUALITY ASSESSMENT:	
Wing & Anglin, 1996	kg above ideal weight, NIDDM, 30-70 years old,		n LCD=14 n VLCD= 13	attended weekly session for a full year that consisted	•	s 1) Metabolic control: a) HbA1 % means (SD): Caucasian: 10.3 (2.0) base	INTERNAL VALIDITY: Described as randomized: Yes	
		periods of VLCD +	Intend to treat:	of a		8.4 (1.9) 6 mo	Method of randomization	
		behavior therapy	* 16 patients	lecture/discussion		8.9 (2.4) 1 year	clearly described? No	
	health problems that would interfere with use VLCD		withdrew before the end of treatment	behavioral		African Amer.: 11.2 (1.5) base 9.8 (2.0) 6 mo	Concealment of allocation? No	
	use VLCD		Age means (SD):	techniques, or exercise. Also, all		9.8 (2.0) 1 year *Differences between intervention	Described as double-blind?	
			Blacks: 49.4(9.0) Whites: 52.4(9.4)	pts were		groups not reported. b) Fasting Glucose (mmol/l) means	No Patient blinded? No	
				increase activity		(SD):	Investigators blinded? No	
			68% female	gradually until they were walking 2 mi.		Caucasian: 12.3 (3.8) base 8.9 (3.3) 6 mo	Outcome assessors blinded?	
			Race %:	a day/ 5 days a		9.7 (3.6) 1 year	No. withdrawals stated? Yes	
			80.6- Caucasian	week. Participants	3	African Amer.: 12.5 (3.8) base		
			17.2- African Amer.	learned techniques		8.7 (2.9) 6 mo	EXTERNAL VALIDITY:	
				2.2- Other (not	such as stimulus	ch as stimulus	10.4 (3.3) 1 year	Pop. Described? Yes
			analyzed)	control, goal setting, self-monitoring.		*Differences between intervention groups not reported.	Intervention described well enough to reproduce? Yes Intervention codified in	
			Baseline HbA1	1)LCD—given a		2) Measures of risk:	manual? Yes	
			means (SD): African Amer.:	goal of 1000-1200 kcal/day.		a) Weight (kg) Loss means estimated from graph::	Provider training described? Yes	
			11.0 (1.6) Caucasian:	2)VLCD—VLCD for weeks 1-12 and	or	LCD: Caucasian: -14.0 6 mo	Patients assessed for DSM dx? No	
			10.2 (2.0)	24-36 (~500		-12.0 1 year African Amer.: -10.5 6 mo	Biases, etc:	
				kcal/day) and a LCD for the		-7.0 1 year	No results reported by	
				remaining weeks.		VLCD: Caucasian: -17.5 6 mo -17.0 1 year African Amer.: -14.0 6 mo - 7.5 1 year	intervention group, but by race	
						*Differences between intervention groups not reported.		

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 640 Wing & Anglin, 1996						COMPLETER RESULTS: 3) Events: a) Health care utilization: Not given	
• ,						b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 750 Wing, Blair, Marcus, Epstein, Harvey, 1994.	Include: Type II diabetes; weight >30% or 18 kg above ideal body weight; age 30-70 years old Exclude: inability to follow very low calorie diet	ecalorie diet (LCD) 2) Low-calorie diet with periods of a very- low-calorie diet	n LCD = 48 n VLCD = 45 *14 dropped out by	1) LCD—group was assigned a calorie intake goal of 1,000—1,200. Weekly group meetings were held for 50 weeks consisting of a weigh-in, review of the self-monitoring records, lecture and discussion on nutrition, exercise or behavior modification. 2) VLCD—same as the LCD but were prescribed a diet of 400-500 calories a day for weeks 1-12 and 24-36 of the 50 week treatment period.	f	COMPLETER RESULTS: ar 1) Metabolic control a) HbA1 % means (SD): LCD: 10.5 (2.0) base	No Patients assessed for DSM dx? No

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 750						b) Systolic blood pressure- SBP	
Wing, Blair, Marcus, Epstein, Harvey, 1994.						means (SD): LCD: 140 (15) base 134 (17) 6 mo 137 (14) 12 mo VLCD: 139 (15) base 130 (15) 6 mo 133 (14) 12 mo *RM-ANOVA indicated no significant	
						effect of group on SBP over time.	
						c) Diastolic blood pressure- DBP means (SD): LCD: 87 (11) base 84 (13) 6 mo 84 (11) 12 mo VLCD: 87 (9) base 81 (9) 6 mo 79 (9) 12 mo *RM-ANOVA indicated a significant effect of group on DBP at 12 mo (p=0.03).	
						d) Cholesterol means (SD): LCD: 5.3 (0.81) base 4.73 (0.81) 6 mo 4.99 (0.91) 12 mo VLCD: 5.41 (1.01) base 5.10 (1.22) 6 mo 5.43 (1.14) 12 mo *RM-ANOVA indicated no significant effect of group on cholesterol over tin (p=0.058).	ne

Study	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 750						e) LDL-Cholesterol means (SD): LCD: 3.22 (0.78) base	
Wing, Blair, Marcus, Epstein, Harvey, 1994.						2.91 (0.73) 6 mo 3.09 (0.91) 12 mo VLCD: 3.3 (0.73) base 3.22 (0.99) 6 mo 3.43 (0.96) 12 mo *RM-ANOVA indicated no significan effect of group on LDL-C over time (p=0.14).	t.
						f) HDL-Cholesterol means (SD): LCD: 1.09 (0.23) base 1.14 (0.21) 6 mo 1.17 (0.91) 12 mo VLCD: 1.12 (0.21) base 1.17 (0.23) 6 mo 1.25 (0.23) 12 mo *RM-ANOVA indicated no significan effect of group on HDL-C over time.	t
						3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

Study	Selected Inclusion/ Exclusion Criteria	,, <u>.</u>	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 8770 Wing, Marcus, Blair, Watanabe, Bononi, Bergman, 1994	old, at least 30% above ideal body weight Exclude: liver disease,	RCT with 2 groups: 1) 400 kcal diet (VLCD 2) 1000 kcal diet (VLCD 2) 1000 kcal diet (LCD) Post-tx, 2 groups above groups divided into 4: 1) VLCD that achieved 11% weight loss goal (VLCDA) 2) VLCD that did not achieve 11% weight loss goal (VLCDN) 3) LCD that achieved 11% weight loss goal (LCDA) 4) LCD that did not achieve 11% weight loss goal (LCDN)	n LCD= 48 eAge means (SD): VLCDA= 53.5 (1.6)	techniques to promote diet adherence and to increase daily activity. VLCD group was restricted to 400 kcal per day. For first 12 weeks. LCI group restricted to 1000 kcal per day for 12 weeks. Both groups were encouraged to gradually increase	, D	COMPLETER RESULTS: s1) Metabolic control: Fasting Glucose means (mmol/l) Estimated from Graph: VLCDA: 13.5 base 7.5 12 week 8.0 27 week LCDA: 13.5 base 10.0 12 week 8.0 27 week * Reported a significant difference between groups at 12 week, but not at 27 weeks. Statistical test not given. 2) Measures of risk: a) Weight-kg means Estimated from Graph: VLCDA: 104 base 92 12 week 85 27 week LCDA: 100 base 88 12 week 83 27 week *Reported similar reductions in weight for both groups. Statistical analyses not reported. 3) Event: a) Health care utilization: Not given b) Morbidity/mortality: Not given	EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described?

Study	Selected Inclusion/ Exclusion Criteria		Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 1070 Wing, Epstein Nowalk et al. 1985	30-70, 20% or more above ideal weight,	1) standard care (con) 2) nutrition education (edu) 3) behavior	N= 53 *no drop-outs Age mean (SD): 55.1(1) % Female: 62 Race % not given Baseline HbA1% mean (SD): Completers: 9.3 (0.3)	con- patients attended monthly meetings where nutritional information was given edu- patients attended 16 weekl sessions that provided basic diabetes, exercise & nutrition information beh- patients attended 16 weekl sessions in which they were given diabetes information along with behavior strategies that would help change behavior, i.e., diet, exercise, cognitions, environment and eating behaviors	10 and 16 mo.	COMPLETER RESULTS 1) Metabolic control a) HbA1 %: *RM-ANOVA indicated no significant differences in HbA1c between groups over the 16 mo period. b) Fasting Blood Sugar-FBS mean (SD): *RM-ANOVA indicated no significant differences between groups on FBS over the 16 mo period. 2) Measures of risk: a) Approximate Weight (kg) means: con: 97.4 base 94.6 4 mo 94.3 16 mo edu: 96.8 base 93.2 4 mo 94.2 16 mo beh: 96.8 base 90.5 4 mo 95.0 16 mo *simple effects showed weight loss for beh group was significantly greater that con or edu groups (p<0.01) 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes, none EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? Yes Patients assessed for DSM dx? No Biases, etc: Investigators did not separate majority of findings by group since there were no group differences

,	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 1020 Wing, Epstein, Nowalk, Scott, Koeske, & Hagg, 1985	Exclusion Criteria Include: NIDDM; age 35-65; ≥20% above ideal body weight based on norms; development of diabetes after the age of 30 Exclude: prior experience with home monitoring of blood glucose	RCT with 2 treatment conditions: 1) Weight Control - standard behavioral weight control program (WC) 2) Glucose monitoring - weight control program including	n WC = 25 n GM = 25 *5 dropouts during study- WC: 3; GM: 2	1) Behavioral weight control program, incl daily calorie goal based on individual weight, calorie books, self-monitoring diaries. Encouraged walking. Behavior modification involving reducing stimuli associated with eating, slowing the act of eating, preplanning for holidays and vacations, and eliciting social support. Focused on weight reduction as the goal of therapy. 2) Included above aspects of weight control therapy but focused more on the relationship btwn. Weight loss and blood glucose control. Patients taught to monitor blood glucose with chemstrips and	Treatment weekly for 12 wks, monthly for 6 mo. Post at 6 mo, f/u at 9 mo.	COMPLETER RESULTS: 1) Metabolic control: a) GHb % means (SD): WC: 10.86 (2.0) base 10.0 (2.08) post 10.44 (2.16) f/u GM: 10.19 (2.51) base 9.68 (1.95) post 10.19 (2.29) f/u *RM-ANOVA indicated no significant effect of group on GHb, but a significant effect of time on weight loss for both groups at post (p<0.001). b) Fasting Blood Glucose-FBG (mg/dl) means (SD): WC: 207.5 (70.5) base 190.7 (65.0) post 210.2 (73.1) f/u GM: 209.2 (69.7) base 197.3 (50.0) post 216.2 (58.7) f/u *RM-ANOVA indicated no significant effect of group on FBS, and no significant effect of time on FBS for both groups. 2) Measures of risk: a) Weight (kg) means (SD): WC: 96.35 (23.57) base 89.53 (21.75) post 88.11 (17.79) f/u GM: 99.02 (16.13) base 93.19 (15.25) post 94.92 (16.5) f/u	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? No Provider training described? No Patients assessed for DSM dx? No Biases, etc: None noted Positive points: Also assessed effects of treatment on medications.
				took five fasting and two pre- and postprandial BG		*RM-ANOVA indicated no significant effect of group on weight loss, but a significant effect of time on weight loss	eating and exercise behaviors, mood, and compliance with glucose

Study Selected Inclusion/ Exclusion C	, ,	tients Interventions	Treatment Duration	Outcomes/Results	Comments
# 1020 Wing, Epstein, Nowalk, Scott, Koeske, & Hagg, 1985		Per week. Values were recorded and self-monitored. Patients were encouraged to kee BG levels w/in normal range by adjusting caloric intake/expenditure and to observe relationship between their eating, exercise behavior, weight, and blood glucose level—and make appropriate adjustments if BG levels were elevated	d ep	3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	

ı	Selected Inclusion/ Exclusion Criteria	Study Design	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
Wing, Marcus, 2 Epstein, and \ Jawad, 1991 a	diabetes; weight ≥ 20% above ideal body weight; spouse >15% above ideal body weight; age 30-70	2) alone—subject treated alone	49 spouses pt.alone = 23 sp.alone = 22	loss program. 1 h sessions. Glucose levels monitored & medication adjusted accordingly. Subjects self-monitored caloric intake. Subjects given step-wise goals for a walking program. Trained in behavior	treatment session with post rat 20 weeks and f/u at 1 year.	COMPLETER RESULTS: 1) Metabolic control a) HbA1 Change means (SD): pt. alone: -2.1 (2.1) pre-post -0.7 (2.7) pre-1 year pt. tog: -1.2 (1.9) pre-post -0.1 (1.9) pre- 1 year *ANOVA indicated no significant effect of group on GHb. b) Fasting Blood Sugar-FBS Change means (SD): pt. alone: -64 (83) pre-post -36 (85) pre-1 year pt. tog: -50 (52) pre-post -11 (61) pre- 1 year *ANOVA indicated no significant effect of group on FBS 2) Measures of risk: a) Weight Change means (SD): pt. alone: -19.9 (18.2) pre-post -11.6 (22.9) pre-1 year pt. tog: -19.1 (11.2) pre-post -7.0 (11.7) pre- 1 year *ANOVA indicated no significant effect of group on weight loss. 3) Events: a) Health care utilization: Not given b) Morbidity/mortality: Not given	QUALITY ASSESSMENT: INTERNAL VALIDITY: Described as randomized? Yes Method of randomization clearly described? No Concealment of allocation? No Described as double-blind? No Patient blinded? No Investigators blinded? No Outcome assessors blinded? No No. of withdrawals in each group stated? Yes EXTERNAL VALIDITY: Pop. Described? Yes Intervention described well enough to reproduce? Yes Intervention codified in manual? Yes Provider training described? No Patients assessed for DSM dx? No Biases, etc: None noted

Study	Selected Inclusion/ Exclusion Criter	Study Design ia	Patients	Interventions	Treatment Duration	Outcomes/Results	Comments
# 900				described above. This program also			
Wing, Marcu				emphasized the			
Epstein, and				importance of			
Jawad, 1991				spousal support in modifying diet and			
				exercise and were			
				taught positive			
				reinforcement and			
				support skills.			