

APPENDIX 5: Main Study Findings and Authors' Conclusions

First Author, Publication Year, Country	Main Findings and Authors' Conclusion																																												
Systematic reviews and meta-analyses																																													
Housden, ^{5,17} 2013, Canada	<p>Main Findings:</p> <table border="1" data-bbox="472 506 1427 947"> <thead> <tr> <th colspan="4" data-bbox="472 506 1427 569">Pooled estimates from RCTs comparing group care versus usual care in patients with diabetes</th> </tr> <tr> <th data-bbox="472 569 711 598">Outcome</th> <th data-bbox="711 569 894 598">No. of RCTs</th> <th data-bbox="894 569 1190 598">WMD (95% CI)</th> <th data-bbox="1190 569 1427 598">Heterogeneity (I²)</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 598 711 627">HbA1c</td> <td data-bbox="711 598 894 627">10</td> <td data-bbox="894 598 1190 627">-0.46 (-0.80, -0.13)</td> <td data-bbox="1190 598 1427 627">82%</td> </tr> <tr> <td data-bbox="472 627 711 657">Systolic BP</td> <td data-bbox="711 627 894 657">5</td> <td data-bbox="894 627 1190 657">-2.81 (-6.84, 1.21)</td> <td data-bbox="1190 627 1427 657">61%</td> </tr> <tr> <td data-bbox="472 657 711 686">Diastolic BP</td> <td data-bbox="711 657 894 686">4</td> <td data-bbox="894 657 1190 686">-1.02 (-2.71, 0.67)</td> <td data-bbox="1190 657 1427 686">55%</td> </tr> <tr> <td data-bbox="472 686 711 716">Total cholesterol</td> <td data-bbox="711 686 894 716">3</td> <td data-bbox="894 686 1190 716">0.04 (-0.21, 0.30)</td> <td data-bbox="1190 686 1427 716">0%</td> </tr> <tr> <td data-bbox="472 716 711 745">HDL</td> <td data-bbox="711 716 894 745">3</td> <td data-bbox="894 716 1190 745">0.01 (-0.07, 0.10)</td> <td data-bbox="1190 716 1427 745">7%</td> </tr> <tr> <td data-bbox="472 745 711 774">Triglycerides</td> <td data-bbox="711 745 894 774">3</td> <td data-bbox="894 745 1190 774">-0.01 (-0.41, 0.38)</td> <td data-bbox="1190 745 1427 774">73%</td> </tr> <tr> <td data-bbox="472 774 711 804">Weight</td> <td data-bbox="711 774 894 804">3</td> <td data-bbox="894 774 1190 804">-0.05 (-3.87, 2.88)</td> <td data-bbox="1190 774 1427 804">0%</td> </tr> <tr> <td data-bbox="472 804 711 833">BMI</td> <td data-bbox="711 804 894 833">4</td> <td data-bbox="894 804 1190 833">0.05 (-0.90, 1.00)</td> <td data-bbox="1190 804 1427 833">9%</td> </tr> <tr> <td data-bbox="472 833 711 947">QoL (using Diabetes QoL questionnaire)</td> <td data-bbox="711 833 894 947">2</td> <td data-bbox="894 833 1190 947">-29.30 (-60.04, 2.05)</td> <td data-bbox="1190 833 1427 947">NR</td> </tr> </tbody> </table> <p data-bbox="472 978 1427 1041">Results from the observational studies comparing group care versus usual care in patients with diabetes</p> <p data-bbox="472 1041 1427 1194">Compared to usual care in group care, HbA1c levels were shown to be statistically significantly improved in 5 studies and not statistically significantly different in 6 studies. One study showed a higher percentage of patients achieving target HbA1c levels in group care compared to usual care but whether the difference was statistically significant was not reported.</p> <p data-bbox="472 1257 1427 1287">Authors' Conclusion:</p> <p data-bbox="472 1287 1427 1440">"Group medical visits for patients with diabetes were found to be effective in terms of reducing HbA1c. The results of our meta-analysis, combined with the other benefits reported by patients and providers, suggest that wider implementation of group medical visits for patients with diabetes will have a positive effect on patient outcomes." P.E642</p>	Pooled estimates from RCTs comparing group care versus usual care in patients with diabetes				Outcome	No. of RCTs	WMD (95% CI)	Heterogeneity (I ²)	HbA1c	10	-0.46 (-0.80, -0.13)	82%	Systolic BP	5	-2.81 (-6.84, 1.21)	61%	Diastolic BP	4	-1.02 (-2.71, 0.67)	55%	Total cholesterol	3	0.04 (-0.21, 0.30)	0%	HDL	3	0.01 (-0.07, 0.10)	7%	Triglycerides	3	-0.01 (-0.41, 0.38)	73%	Weight	3	-0.05 (-3.87, 2.88)	0%	BMI	4	0.05 (-0.90, 1.00)	9%	QoL (using Diabetes QoL questionnaire)	2	-29.30 (-60.04, 2.05)	NR
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Edelman, ³ 2012, USA	<p>Main Findings:</p> <table border="1" data-bbox="472 1503 1427 1850"> <thead> <tr> <th colspan="4" data-bbox="472 1503 1427 1566">Pooled estimates from RCTs comparing SMA versus UC in adults with diabetes</th> </tr> <tr> <th data-bbox="472 1566 711 1596">Outcome</th> <th data-bbox="711 1566 894 1596">No. of RCTs</th> <th data-bbox="894 1566 1190 1596">MD (95% CI)</th> <th data-bbox="1190 1566 1427 1596">Heterogeneity (I²)</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 1596 711 1625">HbA1c</td> <td data-bbox="711 1596 894 1625">13</td> <td data-bbox="894 1596 1190 1625">-0.55 (-0.99, -0.11)</td> <td data-bbox="1190 1596 1427 1625">93%</td> </tr> <tr> <td data-bbox="472 1625 711 1654">Systolic BP</td> <td data-bbox="711 1625 894 1654">5</td> <td data-bbox="894 1625 1190 1654">-5.22 (-7.40, -3.05)</td> <td data-bbox="1190 1625 1427 1654">0%</td> </tr> <tr> <td data-bbox="472 1654 711 1684">Total cholesterol</td> <td data-bbox="711 1654 894 1684">5</td> <td data-bbox="894 1654 1190 1684">-4.92 (-17.82, 7.97)</td> <td data-bbox="1190 1654 1427 1684">86%</td> </tr> <tr> <td data-bbox="472 1684 711 1713">LDL</td> <td data-bbox="711 1684 894 1713">5</td> <td data-bbox="894 1684 1190 1713">-6.64 (-16.11, 2.82)</td> <td data-bbox="1190 1684 1427 1713">79%</td> </tr> <tr> <td data-bbox="472 1713 711 1787">HRQoL (disease specific measure)</td> <td data-bbox="711 1713 894 1787">3</td> <td data-bbox="894 1713 1190 1787">-1.34 (-1.93, -0.74)*</td> <td data-bbox="1190 1713 1427 1787">86%</td> </tr> <tr> <td data-bbox="472 1787 711 1850">HRQoL (general measure)</td> <td data-bbox="711 1787 894 1850">2</td> <td data-bbox="894 1787 1190 1850">-0.84 (-1.64, -0.03)*</td> <td data-bbox="1190 1787 1427 1850">0%</td> </tr> </tbody> </table> <p data-bbox="472 1850 1427 1873">*SMD (95% CI)</p>	Pooled estimates from RCTs comparing SMA versus UC in adults with diabetes				Outcome	No. of RCTs	MD (95% CI)	Heterogeneity (I ²)	HbA1c	13	-0.55 (-0.99, -0.11)	93%	Systolic BP	5	-5.22 (-7.40, -3.05)	0%	Total cholesterol	5	-4.92 (-17.82, 7.97)	86%	LDL	5	-6.64 (-16.11, 2.82)	79%	HRQoL (disease specific measure)	3	-1.34 (-1.93, -0.74)*	86%	HRQoL (general measure)	2	-0.84 (-1.64, -0.03)*	0%												
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	<p>Results from the observational studies comparing SMA versus UC in adult patients with diabetes</p> <p>One study showed that compared to control, there was a statistically significant benefit with SMA (P=0.002)</p> <hr/> <p>Results from RCTs comparing SMA versus UC in older adult with high healthcare utilization</p> <p>Both RCTs showed that there was no difference in outcomes with the SMA versus UC for overall health status (using the Likert scale) and functional status based on activities of daily living or instrumental activities of daily living. One study assessing HRQoL using a 10-point scale (with 10 indicating highest QoL) showed higher HRQoL with SMA compared to UC (7.2 with SMA versus 6.3 with UC, P=0.002).</p> <p>Both RCTs found significantly higher quality ratings for patient experience with SMA compared to UC (P= 0.019 and P= 0.048).</p> <hr/> <p>Authors' Conclusion:</p> <p>“Our review shows that SMAs—typically using closed groups with individual breakouts and opportunity for medication management—improve intermediate clinical outcomes for type 2 diabetes. A smaller literature shows positive effects on patient experience in older adults and the possibility of lower health care utilization. SMAs may be most effective for illnesses such as diabetes that have a phase in which the risk of complication is relatively high while the disease is simultaneously asymptomatic, and in which medication titration and self-management are important. Until further studies are done that allow for comparisons across conditions, the targeting of SMA interventions for chronic conditions other than diabetes will remain speculative.” P. 7</p> <p>(SMA – shared medical appointment)</p>																																																
Steinsbekk, ¹⁰ 2012, Norway	<p>Main Findings:</p> <p>Pooled estimates from RCTs comparing DSME versus routine treatment in adults with diabetes</p> <table border="1" data-bbox="467 1352 1432 1883"> <thead> <tr> <th>Outcome</th> <th>No. of RCTs</th> <th>MD (95% CI)</th> <th>Heterogeneity (I²)</th> </tr> </thead> <tbody> <tr> <td>HbA1c (6 m)</td> <td>13</td> <td>-0.44 (-0.69, -0.19)</td> <td>55.8%</td> </tr> <tr> <td>HbA1c (12 m)</td> <td>11</td> <td>-0.46 (-0.74, -0.18)</td> <td>64.6%</td> </tr> <tr> <td>HbA1c (12 years)</td> <td>3</td> <td>-0.87 (-1.25, -0.49)</td> <td>0%</td> </tr> <tr> <td>Fasting blood glucose (6 m)</td> <td>3</td> <td>-0.73 (-2.22, 0.76)</td> <td>68.1%</td> </tr> <tr> <td>Fasting blood glucose (12 m)</td> <td>5</td> <td>-1.26 (-1.69, -0.83)</td> <td>0%</td> </tr> <tr> <td>Weight (6 m)</td> <td>3</td> <td>-2.08 (-5.55, 1.39)</td> <td>48.2%</td> </tr> <tr> <td>Weight (6 m)</td> <td>4</td> <td>-1.66 (-3.07, -0.25)</td> <td>0%</td> </tr> <tr> <td>BMI (6 m)</td> <td>7</td> <td>-0.21 (-0.86, 0.43)</td> <td>0%</td> </tr> <tr> <td>BMI (12 m)</td> <td>7</td> <td>-0.22 (-1.13, 0.69)</td> <td>62.2%</td> </tr> <tr> <td>Systolic BP (6 m)</td> <td>5</td> <td>-0.34 (-5.19, 4.51)</td> <td>67.9%</td> </tr> <tr> <td>Systolic BP (12)m)</td> <td>2</td> <td>-2.61 (-6.74, 1.52)</td> <td>0%</td> </tr> </tbody> </table>	Outcome	No. of RCTs	MD (95% CI)	Heterogeneity (I ²)	HbA1c (6 m)	13	-0.44 (-0.69, -0.19)	55.8%	HbA1c (12 m)	11	-0.46 (-0.74, -0.18)	64.6%	HbA1c (12 years)	3	-0.87 (-1.25, -0.49)	0%	Fasting blood glucose (6 m)	3	-0.73 (-2.22, 0.76)	68.1%	Fasting blood glucose (12 m)	5	-1.26 (-1.69, -0.83)	0%	Weight (6 m)	3	-2.08 (-5.55, 1.39)	48.2%	Weight (6 m)	4	-1.66 (-3.07, -0.25)	0%	BMI (6 m)	7	-0.21 (-0.86, 0.43)	0%	BMI (12 m)	7	-0.22 (-1.13, 0.69)	62.2%	Systolic BP (6 m)	5	-0.34 (-5.19, 4.51)	67.9%	Systolic BP (12)m)	2	-2.61 (-6.74, 1.52)	0%
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	Total cholesterol (6 m)	7	-0.04 (-0.17, 0.10)	0%
	Total cholesterol (12 m)	4	0.07 (-0.09, 0.24)	0%
	Triglycerides (6 m)	7	-0.16 (-0.35, 0.03)	0%
	Triglycerides (12 m)	4	0.03 (-0.42, 0.48)	79.7%
	LDL (12 m)	6	-0.05 (-0.20, 0.10)	0%
	HDL (6 m)	6	0.02 (-0.05, 0.08)	0%
	QoL ((6 m)	3	0.31 (-0.15, 0.78)*	77.1%
	Treatment satisfaction (6 m)	2	0.65 (0.44, 0.85)*	0%
	Treatment satisfaction (12 m)	3	0.39 (0.21, 0.57)*	0%
	*SMD (95% CI)			
<p>Authors' Conclusion: "Group-based DSME in people with type 2 diabetes results in improvements in clinical, lifestyle and psychosocial outcomes." P. 1 (DMSE = diabetes self-management education)</p>				
Randomized controlled trials				
Weinger, ¹¹ 2011, USA	Main Findings:			
	Results from RCT with adults with diabetes			
	Outcome	Effect size (mean ± SD)		
		Structured behavioral group	Attention control group	Individual group
	HbA1c (%) - baseline	9.1 ± 1.1	9.1 ± 1.2	8.9 ± 1.1
	HbA1c (%) – 3m	8.3 ± 1.1	8.7 ± 0.9	8.5 ± 1.2
	HbA1c (%) – 6m	8.4 ± 1.1	8.7 ± 1.1	8.6 ± 1.0
	HbA1c (%) - 12m	8.5 ± 1.3	8.6 ± 1.3	8.7 ± 1.3
	HDL- baseline	50.9 ± 15.2	48.9 ± 16.2	53 ± 18.7
	HDL - 6m	52.8 ± 19.3	49.7 ± 18.2	52.4 ± 18.1
	HDL – 12m	52.1 ± 21.4	47.6 ± 17.1	51.5 ± 18.6
	LDL- baseline	105.8 ± 33.5	108.5 ± 35	103.4 ± 25.2
	LDL - 6m	108.3 ± 32	100.4 ± 26.5	108.6 ± 28.8
	LDL – 12m	103.1 ± 29	98.7 ± 31.9	103.4 ± 34.7
	BMI - baseline	29.1 ± 6.6	31 ± 7.3	29.9 ± 6.6
	BMI – 3m	28.6 ± 6.3	31 ± 7.5	29.5 ± 6.4
	BMI – 6m	28.4 ± 5.5	31.5 ± 7.3	29.5 ± 6.3
	BMI – 12m	28.9 ± 6.7	31.3 ± 7.4	30.1 ± 6.5
	QoL - baseline	67.0 ± 10.2	66.4 ± 10.4	67.8 ± 11.4
	QoL – 3m	69.8 ± 10.7	70.5 ± 11.3	70.5 ± 10.7
QoL – 6m	68.8 ± 10.8	69.4 ± 12.1	71.6 ± 11.6	
QoL -12m	69.4 ± 11.3	72.2 ± 10.5	71.6 ± 11.2	

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	<p>Authors' Conclusion: "A structured, cognitive behavioral program is more effective than two control interventions in improving glycemia in adults with long-duration diabetes. Educators can successfully utilize modified psychological and behavioral strategies." P.1</p>																																																																																																																				
Ferrara, ¹² 2012, Italy	<p>Main Findings:</p> <table border="1" data-bbox="467 558 1432 1667"> <thead> <tr> <th colspan="4" data-bbox="467 558 1432 590">Results from RCT with patients with hypertension</th> </tr> <tr> <th data-bbox="467 590 802 621">Outcome</th> <th data-bbox="802 590 1052 621">Group - EC</th> <th data-bbox="1052 590 1279 621">UC</th> <th data-bbox="1279 590 1432 621">P value</th> </tr> </thead> <tbody> <tr><td>Fasting blood glucose, mg/dL - baseline</td><td>98.6 ± 26</td><td>102.7 ± 27</td><td>NS</td></tr> <tr><td>Fasting blood glucose, mg/dL – 6 m</td><td>103.2 ± 36</td><td>99.9 ± 20</td><td>NS</td></tr> <tr><td>Fasting blood glucose, mg/dL – 12 m</td><td>99.2 ± 22</td><td>104.9 ± 33</td><td>NS</td></tr> <tr><td>SBP, mm Hg - baseline</td><td>136.0 ± 17</td><td>132.3 ± 15</td><td>NS</td></tr> <tr><td>SBP, mm Hg – 6 m</td><td>127.3 ± 12</td><td>133.1 ± 16</td><td>0.05</td></tr> <tr><td>SBP, mm Hg – 12 m</td><td>124.5 ± 10</td><td>133.5 ± 15</td><td>0.001</td></tr> <tr><td>DBP, mm Hg - baseline</td><td>85.4 ± 12</td><td>83.3 ± 9</td><td>NS</td></tr> <tr><td>DBP, mm Hg – 6 m</td><td>80.3 ± 8</td><td>81.9 ± 10</td><td>NS</td></tr> <tr><td>DBP, mm Hg – 12 m</td><td>77.9 ± 9</td><td>81.3 ± 9</td><td>0.01</td></tr> <tr><td>Cholesterol mg/dL - baseline</td><td>199.7 ± 36</td><td>195.6 ± 37</td><td>NS</td></tr> <tr><td>Cholesterol mg/dL – 6 m</td><td>200.4 ± 39</td><td>194.5 ± 33</td><td>NS</td></tr> <tr><td>Cholesterol mg/dL – 12 m</td><td>183.8 ± 32</td><td>192.1 ± 33</td><td>NS</td></tr> <tr><td>LDL-C, mg/dL - baseline</td><td>126.8 ± 32</td><td>119.5 ± 36</td><td>NR</td></tr> <tr><td>LDL-C, mg/dL – 6 m</td><td>126.0 ± 38</td><td>113.3 ± 37</td><td>0.05</td></tr> <tr><td>LDL-C, mg/dL – 12 m</td><td>110.8 ± 33</td><td>113.3 ± 35</td><td>NS</td></tr> <tr><td>HDL-C, mg/dL - baseline</td><td>49.1 ± 12</td><td>49.8 ± 13</td><td>NS</td></tr> <tr><td>HDL-C, mg/dL – 6 m</td><td>49.3 ± 13</td><td>51.6 ± 12</td><td>NS</td></tr> <tr><td>HDL-C, mg/dL – 12 m</td><td>49.7 ± 12</td><td>52.0 ± 14</td><td>NS</td></tr> <tr><td>Triglycerides, mg/dL - baseline</td><td>127.1 ± 97</td><td>142.0 ± 82</td><td>NS</td></tr> <tr><td>Triglycerides, mg/dL -</td><td>142.0 ± 95</td><td>133.5 ± 60</td><td>NS</td></tr> <tr><td>Triglycerides, mg/dL -</td><td>115.2 ± 48</td><td>134.9 ± 54</td><td>0.01</td></tr> <tr><td>Weight, kg - baseline</td><td>79.5 ± 15</td><td>80.0 ± 12</td><td>NS</td></tr> <tr><td>Weight, kg – 6 m</td><td>77.1 ± 14</td><td>80.7 ± 12</td><td>0.05</td></tr> <tr><td>Weight, kg – 12 m</td><td>76.5 ± 14</td><td>80.9 ± 13</td><td>0.02</td></tr> <tr><td>BMI - baseline</td><td>28.7 ± 5</td><td>29.6 ± 4</td><td>NS</td></tr> <tr><td>BMI – 6 m</td><td>27.9 ± 4</td><td>29.9 ± 4</td><td>0.001</td></tr> <tr><td>BMI -12 m</td><td>27.6 ± 4</td><td>30.0 ± 4</td><td>0.001</td></tr> </tbody> </table> <p>Authors' Conclusion: "The present investigation shows that involving patients in a face-to-face program with doctors and dieticians is a low-cost/benefit procedure able to improve the outcome of the disease and reduce the risk of cardiovascular events, possibly preventing increasing costs and drug therapy"</p>	Results from RCT with patients with hypertension				Outcome	Group - EC	UC	P value	Fasting blood glucose, mg/dL - baseline	98.6 ± 26	102.7 ± 27	NS	Fasting blood glucose, mg/dL – 6 m	103.2 ± 36	99.9 ± 20	NS	Fasting blood glucose, mg/dL – 12 m	99.2 ± 22	104.9 ± 33	NS	SBP, mm Hg - baseline	136.0 ± 17	132.3 ± 15	NS	SBP, mm Hg – 6 m	127.3 ± 12	133.1 ± 16	0.05	SBP, mm Hg – 12 m	124.5 ± 10	133.5 ± 15	0.001	DBP, mm Hg - baseline	85.4 ± 12	83.3 ± 9	NS	DBP, mm Hg – 6 m	80.3 ± 8	81.9 ± 10	NS	DBP, mm Hg – 12 m	77.9 ± 9	81.3 ± 9	0.01	Cholesterol mg/dL - baseline	199.7 ± 36	195.6 ± 37	NS	Cholesterol mg/dL – 6 m	200.4 ± 39	194.5 ± 33	NS	Cholesterol mg/dL – 12 m	183.8 ± 32	192.1 ± 33	NS	LDL-C, mg/dL - baseline	126.8 ± 32	119.5 ± 36	NR	LDL-C, mg/dL – 6 m	126.0 ± 38	113.3 ± 37	0.05	LDL-C, mg/dL – 12 m	110.8 ± 33	113.3 ± 35	NS	HDL-C, mg/dL - baseline	49.1 ± 12	49.8 ± 13	NS	HDL-C, mg/dL – 6 m	49.3 ± 13	51.6 ± 12	NS	HDL-C, mg/dL – 12 m	49.7 ± 12	52.0 ± 14	NS	Triglycerides, mg/dL - baseline	127.1 ± 97	142.0 ± 82	NS	Triglycerides, mg/dL -	142.0 ± 95	133.5 ± 60	NS	Triglycerides, mg/dL -	115.2 ± 48	134.9 ± 54	0.01	Weight, kg - baseline	79.5 ± 15	80.0 ± 12	NS	Weight, kg – 6 m	77.1 ± 14	80.7 ± 12	0.05	Weight, kg – 12 m	76.5 ± 14	80.9 ± 13	0.02	BMI - baseline	28.7 ± 5	29.6 ± 4	NS	BMI – 6 m	27.9 ± 4	29.9 ± 4	0.001	BMI -12 m	27.6 ± 4	30.0 ± 4	0.001
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<p>BMI = body mass index, BP = blood pressure, DBP = diastolic blood pressure, CI = confidence interval, HbA1c = glycated hemoglobin, HDL = high density lipoprotein, HDL-C = HDL cholesterol, LDL = low density lipoprotein, LDL-C = LDL cholesterol, NR = not reported, NS = not significant, QoL = quality of life, SBP = systolic blood pressure, SMD = standardized mean difference, WMD = weighted mean difference</p>	