

# Obesity Prevention and Control: Provider Education with Patient Intervention

## Summary Evidence Table

| Study  | Intervention and Comparison   | Study Population   | Effect measure | Reported Baseline and Follow-Up | Reported effect | Follow-up time |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
|--|---|--|----------------|---------------------------------|-----------------|----------------|--------|----|----|----|----|----|----|----|---|--|--|---------|--------|--------------|------|-----|---------|-----|-----|--|---------|--------|--------------|-----|-----|---------|------|-----|---|------------------|
| <p><b>Author (year):</b><br/>Cohen et al. (1991)</p> <p><b>Study Period:</b><br/>1987-1988</p> <p><b>Study Design:</b><br/>RCT</p> <p><b>Design Suitability:</b><br/>Greatest</p> <p><b>Quality of Execution:</b> Fair</p> | <p><b>Location:</b><br/>Pittsburgh, PA</p> <p>Physician training session by a behavioral psychologist on importance of weight reduction and information about effects of specific foods on body weight; taught methods to encourage patients. Total training time not reported</p> <p><b>Components:</b><br/>Intervention: Initial consult with physician on caloric content of foods and dietary changes suggested. At following visits (1/month) dietary advice repeated as well as setting short-term goals and providing feedback to encourage further weight loss</p> <p><b>Comparison:</b> Usual care</p> | <p>Family Health Center</p> <p>10 intervention &amp; 8 Usual care residents, selection NR</p> <table border="1"> <thead> <tr> <th>Group</th> <th>N<sub>0</sub></th> <th>N<sub>1</sub></th> <th>N<sub>1</sub></th> </tr> </thead> <tbody> <tr> <td>Interv</td> <td>15</td> <td>15</td> <td>15</td> </tr> <tr> <td>UC</td> <td>15</td> <td>15</td> <td>15</td> </tr> </tbody> </table> | Group          | N <sub>0</sub>                  | N <sub>1</sub>  | N <sub>1</sub> | Interv | 15 | 15 | 15 | UC | 15 | 15 | 15 | <p>1) Mean change in body weight (kg) (direct measure)</p> <p>Intervention<br/>Control</p> <p>2) Mean change in BP (mmHg)</p> <p>Intervention<br/>Control</p> | <table border="1"> <thead> <tr> <th></th> <th>0-6 mos</th> <th>0-1 yr</th> </tr> </thead> <tbody> <tr> <td>Intervention</td> <td>-1.8</td> <td>0.9</td> </tr> <tr> <td>Control</td> <td>0.6</td> <td>0.7</td> </tr> </tbody> </table><br><table border="1"> <thead> <tr> <th></th> <th>0-6 mos</th> <th>0-1 yr</th> </tr> </thead> <tbody> <tr> <td>Intervention</td> <td>1.2</td> <td>1.8</td> </tr> <tr> <td>Control</td> <td>-2.3</td> <td>1.6</td> </tr> </tbody> </table> |  | 0-6 mos | 0-1 yr | Intervention | -1.8 | 0.9 | Control | 0.6 | 0.7 |  | 0-6 mos | 0-1 yr | Intervention | 1.2 | 1.8 | Control | -2.3 | 1.6 | <p>-2.4    0.2</p><br><p>3.5    0.2</p> | <p>12 months</p> |
| Group  | N <sub>0</sub>  | N <sub>1</sub>   | N <sub>1</sub> |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
| Interv   | 15  | 15   | 15             |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
| UC   | 15  | 15   | 15             |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
|  | 0-6 mos   | 0-1 yr   |                |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
| Intervention   | -1.8  | 0.9  |                |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
| Control  | 0.6   | 0.7  |                |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
|  | 0-6 mos   | 0-1 yr   |                |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
| Intervention   | 1.2   | 1.8  |                |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |
| Control  | -2.3  | 1.6  |                |                                 |                 |                |        |    |    |    |    |    |    |    |   |  |  |         |        |              |      |     |         |     |     |  |         |        |              |     |     |         |      |     |   |                  |

| Study  | Intervention and Comparison   | Study Population  | Effect measure                                 | Reported Baseline and Follow-Up |               |           | Reported effect | Follow-up time |
|--|---|---|--|---------------------------------|---------------|-----------|-----------------|----------------|
|  |   |   |  |                                 |               |           |                 |                |
| <b>Author (year):</b><br>Kastarinen et al. (2002)<br><br><b>Study Period:</b><br>1996-1997<br><br><b>Study Design:</b><br>RCT<br><br><b>Design Suitability:</b><br>Greatest<br><br><b>Quality of Execution:</b> Fair | <b>Location:</b> Finland<br><br><b>Components:</b><br>Study staff trained public health nurses – dealt with counseling and behavior modification on weight reduction; given folder with detailed info and practical tips. Training time unknown<br>Patient Intervention – four individual counseling sessions in year 1, three individual counseling sessions in year 2, and a 2-hour group session each year. Counseling by public health nurses on 5 goals (BMI <25, sodium <5 gm, alcoholic beverages <2/day, moderate exercise 30 min 3x/weeks, stop smoking).<br><br><b>Comparison:</b> Usual care | 10 health care centers<br><br>Public health nurses; sample size unknown<br><br>Group $N_0$ $N_1$ $N_1$<br>Inter 360 317 304<br>Cont 355 275 283 | 1) Change in body weight (kg) (direct measure) | <u>0-1 yr</u>                   | <u>0-2 yr</u> | -1.3 -1.2 | 12, 24 months   |                |
|  |   |   | Intervention                                   | -1.5                            | -1.5          |           |                 |                |
|  |   |   | Control  | -0.2                            | -0.3          |           |                 |                |
|  |   |   | 2) Change in DBP                               |                                 |               |           |                 | -1.6 -1.1      |
|  |   |   | Intervention                                   | -4.0                            | -4.3          |           |                 |                |
|  |   |   | Control  | -2.4                            | -3.2          |           |                 |                |
|  |   |   | 3) Change in SBP                               |                                 |               |           |                 |                |
| Intervention   | -4.7  | -6.2  |  |                                 |               |           |                 |                |
| Control  | -3.4  | -4.2  |  |                                 |               |           |                 |                |
| 4) Change in HDL   |   |   | 0.01 0.03                                      |                                 |               |           |                 |                |
| Intervention   | 0.02  | 0.10  |  |                                 |               |           |                 |                |
| Control  | 0.01  | 0.07  |  |                                 |               |           |                 |                |
| 5) Change in LDL   |   |   |  | -0.05 -0.15                     |               |           |                 |                |
| Intervention   | -0.06   | -0.11   |  |                                 |               |           |                 |                |
| Control  | -0.01   | 0.04  |  |                                 |               |           |                 |                |
| 6) Change in Total Cholesterol   |   |   |  |                                 | -0.02 -0.10   |           |                 |                |
| Intervention   | -0.05   | -0.03   |  |                                 |               |           |                 |                |
| Control  | -0.03   | 0.07  |  |                                 |               |           |                 |                |
| 7) Change in waist circumference   |   |   | -1.5 -1.4                                      |                                 |               |           |                 |                |
| Intervention   | -1.2  | -1.2  |  |                                 |               |           |                 |                |
| Control  | 0.3   | 0.2   |  |                                 |               |           |                 |                |

|   |  |   |                                   |                 |               |              |           |
|---|--|---|-----------------------------------|-----------------|---------------|--------------|-----------|
| <b>Author (year):</b><br>Lojander et al. (1998)<br><br><b>Study Period:</b><br>not reported | <b>Location:</b> Helsinki, Finland<br><br><b>Components:</b><br>Experienced nurses attended a 2-day course on weight loss and behavioral | 1 clinical practice<br><br>$N_0=24$<br>$N_1=23$<br>$N_1=22$ | 1) BMI direct measurement         | <u>Baseline</u> | <u>1.5 mo</u> | <u>12 mo</u> | 12 months |
|   |  |   |                                   | 36              | 31            | 31           |           |
|   |  |   | 2) Weight direct measurement (kg) | 110             | 97            | 99           |           |
|   | 3) Weight reduction (% overwt)   |   | 40                                | 33              |               |              |           |

| Study  | Intervention and Comparison  | Study Population  | Effect measure   | Reported Baseline and Follow-Up   | Reported effect  | Follow-up time |
|--|--|---|--|---|--|----------------|
| <p><b>Study Design:</b> Time series</p> <p><b>Design Suitability:</b> Moderate</p> <p><b>Quality of Execution:</b> Fair</p>  | <p>management, led meetings.</p> <p>Week 1 – overview and group session; Weeks 2-7 VLCD and 3 group meetings; Weeks 8-9 back to low calorie food; Weeks 10-14 1 group meeting on adaptation to new life; Next 7 months had monthly group meetings</p>  |   |  |   |  |                |
| <p><b>Author (year):</b> Moore et al. (2003)</p> <p><b>Study Period:</b> 2000-2002</p> <p><b>Study Design:</b> Group RCT</p> <p><b>Design Suitability:</b> Greatest</p> <p><b>Quality of Execution:</b> Fair</p> | <p><b>Location:</b> Northern and Yorkshire regions of England</p> <p><b>Components:</b> Providers received three 90-min nutritional training sessions; A “ready reckoner” was produced to allow practitioners to estimate daily energy expenditure and then calculate a 500 kcal deficit. Diet sheet and supporting written materials provided. Total training time 4.5 hours Patients seen regularly until 10% of original body weight lost.</p> <p><b>Comparison:</b> Usual care</p> | <p>Recruited practices (4 health areas). All 161 invited; 44 randomized. All practitioners and practice nurses eligible (n = 245).</p> <p>Staff invited to participate consecutively attending obese adults (BMI ≥ 30).</p> <p><u>Group</u> <u>N<sub>0</sub></u> <u>N<sub>1</sub></u><br/>                     Inter 415 256<br/>                     Contr 428 275</p> | <p>1) Weight (kg) (direct measure)</p> <p>Intervention<br/>Control</p> <p>2) BMI</p> <p>Intervention<br/>Control</p> | <p><u>Baseline</u> <u>3m</u> <u>12m</u> <u>18m</u></p> <p>100.8 100.4 100.3 100.8<br/>                     100.2 99.8 99.3 99.5</p> <p>37 36.8 36.9 37.1<br/>                     36.9 36.9 36.8 36.9</p> | <p>Absolute change<br/>0.0 0.4 0.7</p> <p>Absolute change<br/>-0.2 0.0 0.1</p> | 18 months      |

| Study  | Intervention and Comparison   | Study Population  | Effect measure  | Reported Baseline and Follow-Up   | Reported effect                            | Follow-up time   |
|--|---|---|---|---|--|------------------|
| <p><b>Author (year):</b> Ockene et al. (1999)</p> <p><b>Study Period:</b> not reported</p> <p><b>Study Design:</b> Group RCT</p> <p><b>Design Suitability:</b> Greatest</p> <p><b>Quality of Execution:</b> Fair</p> | <p><b>Location:</b> Worcester, MA</p> <p><b>Components:</b> Nutrition alone: Two sessions 2.5 hours in small group and 30 min individual sessions (role play). Focus on counseling. Tools given to practitioners. Nutrition +: same as above plus physicians received office support</p> <p><b>Comparison:</b> Usual care</p> | <p>45 primary care internists (46 available, 1 declined) randomized into 3 groups.</p> <p>1162 patients recruited; 550 completed weight at 1 year</p> <p>161 control<br/>192 nutrition alone (nutri)<br/>197 nutrition plus (nutri +)</p> | <p>1) Weight (kg) (direct measure)<br/>Nutri counseling<br/>Nutri counseling +<br/>Control</p> <p>2) HDL (mmol/L)<br/>Nutri counseling<br/>Nutri counseling +<br/>Control</p> <p>3) LDL (mmol/L)<br/>Nutri counseling<br/>Nutri counseling +<br/>Control</p> <p>4) Saturated Fat (% of energy)<br/>Nutri counseling<br/>Nutri counseling +<br/>Control</p> <p>5) Total Cholesterol (mmol/L)<br/>Nutri counseling<br/>Nutri counseling +<br/>Control</p> <p>6) Total Chol: HDL<br/>Nutri counseling<br/>Nutri counseling +<br/>Control</p> <p>7) Total Fat (% of energy)<br/>Nutri counseling<br/>Nutri counseling +<br/>Control</p> | <p>12 month</p> <p>-1.0<br/>-2.3<br/>0</p> <p>0.01<br/>0.01<br/>-0.02</p> <p>0.02<br/>-0.11<br/>-0.01</p> <p>-0.04<br/>-1.10<br/>0</p> <p>0.05<br/>-0.10<br/>0.03</p> <p>0.1<br/>-0.1<br/>0.1</p> <p>-1.0<br/>-2.3<br/>-0.7</p> | <p>-1.0<br/>-2.3</p> <p>0.02<br/>-0.13</p> | <p>12 months</p> |

| Study  | Intervention and Comparison   | Study Population   | Effect measure  | Reported Baseline and Follow-Up | Reported effect | Follow-up time |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
|--|---|--|---|---------------------------------|-----------------|----------------|----|----|-----|-----|----|--|---|--|-------|-------|------------------|-----|---|--------------------------|-----|-----|------------------------|------|------|--|-----|------|--|----------|
|  |   |  | 8) Triglyceride (TG) (mmol/L)<br>Nutri counseling<br>Nutri counseling + Control | 0.06<br>-0.01<br>0.12           |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
| <p><b>Author (year):</b> Richman et al. (1996)</p> <p><b>Study Period:</b> not reported</p> <p><b>Study Design:</b> NRCT</p> <p><b>Design Suitability:</b> Greatest</p> <p><b>Quality of Execution:</b> Fair</p> | <p><b>Location:</b> Australia</p> <p><b>Provider intervention:</b> 2 half day training sessions</p> <p>Session 1: Dietary information (emphasis on fat content), exercise training, behavior modification techniques (emphasis on goal setting), and medical update on obesity management (emphasis on identifying patients at risk); Session 2: individual session to observe procedures and counseling sessions</p> <p><b>Shared care (SC):</b> weekly meeting (20 min) with general practitioner (GP) up until week 9. Patients given 10 brochures on nutrition, exercise, and behavioral aspects of obesity management; also asked to keep food and exercise logs</p> | <p>24 GP attended 1<sup>st</sup> training, 12 attended 2<sup>nd</sup> training</p> <table border="1" data-bbox="661 535 919 625"> <thead> <tr> <th>Group</th> <th>N<sub>0</sub></th> <th>N<sub>1</sub></th> </tr> </thead> <tbody> <tr> <td>SC</td> <td>37</td> <td>17</td> </tr> <tr> <td>MOS</td> <td>101</td> <td>27</td> </tr> </tbody> </table> | Group   | N <sub>0</sub>                  | N <sub>1</sub>  | SC             | 37 | 17 | MOS | 101 | 27 | <p>1) Weight loss (direct measure) (kg)</p> <p>SC 4.8<br/>MOS 2.6</p> <p>2) BMI (kg/m<sup>2</sup>)</p> <p>SC 1.8<br/>MOS 0.9</p> <p>3) Excess weight loss (%)</p> <p>SC 17.7<br/>MOS 9.5</p> | <table border="1" data-bbox="1251 378 1598 771"> <thead> <tr> <th></th> <th>10 wk</th> <th>26 wk</th> </tr> </thead> <tbody> <tr> <td>Weight loss (kg)</td> <td>4.8</td> <td>5</td> </tr> <tr> <td>BMI (kg/m<sup>2</sup>)</td> <td>1.8</td> <td>1.9</td> </tr> <tr> <td>Excess weight loss (%)</td> <td>17.7</td> <td>15.2</td> </tr> <tr> <td></td> <td>9.5</td> <td>19.4</td> </tr> </tbody> </table> |  | 10 wk | 26 wk | Weight loss (kg) | 4.8 | 5 | BMI (kg/m <sup>2</sup> ) | 1.8 | 1.9 | Excess weight loss (%) | 17.7 | 15.2 |  | 9.5 | 19.4 |  | 26 weeks |
| Group  | N <sub>0</sub>  | N <sub>1</sub>   |   |                                 |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
| SC   | 37  | 17   |   |                                 |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
| MOS  | 101   | 27   |   |                                 |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
|  | 10 wk   | 26 wk  |   |                                 |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
| Weight loss (kg)   | 4.8   | 5  |   |                                 |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
| BMI (kg/m <sup>2</sup> )   | 1.8   | 1.9  |   |                                 |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
| Excess weight loss (%)   | 17.7  | 15.2   |   |                                 |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |
|  | 9.5   | 19.4   |   |                                 |                 |                |    |    |     |     |    |  |   |  |       |       |                  |     |   |                          |     |     |                        |      |      |  |     |      |  |          |

| Study  | Intervention and Comparison   | Study Population  | Effect measure | Reported Baseline and Follow-Up | Reported effect | Follow-up time |     |     |      |     |     |  |  |                                       |                  |
|--|---|---|----------------|---------------------------------|-----------------|----------------|-----|-----|------|-----|-----|--|--|---------------------------------------|------------------|
|  | <p><b>Hospital based Metabolism and Obesity Service (MOS):</b> Same as SC without the integration of trained general practitioner. Program administered weekly by primary therapist. Eating plan prescribed.</p>  |   |                |                                 |                 |                |     |     |      |     |     |  |  |                                       |                  |
| <p><b>Author (year):</b><br/>Willaing et al. (2004)</p> <p><b>Study Period:</b><br/>2000-2001</p> <p><b>Study Design:</b><br/>Before-after, all using only general practitioner</p> <p><b>Design Suitability:</b><br/>Least</p> <p><b>Quality of Execution:</b> Fair</p> | <p><b>Location:</b><br/>Copenhagen, Denmark</p> <p><b>Components:</b><br/>General practitioner counseling (GPs trained 1 day in motivational interviewing) – Patients provided with commercially available information on healthy diet; individual counseling for 30 min with 4 additional sessions of 12 min.</p> <p><b>Comparison</b> (data not being used):<br/>Dietetic counseling – individual counseling 1 hour with 4 additional sessions of 30 min.</p> | <p>60 general practitioners</p> <table border="1" data-bbox="661 678 917 768"> <thead> <tr> <th>Group</th> <th>N<sub>0</sub></th> <th>N<sub>1</sub></th> </tr> </thead> <tbody> <tr> <td>GP</td> <td>191</td> <td>130</td> </tr> <tr> <td>Diet</td> <td>312</td> <td>209</td> </tr> </tbody> </table> | Group          | N <sub>0</sub>                  | N <sub>1</sub>  | GP             | 191 | 130 | Diet | 312 | 209 | <p>1) Change in body weight (kg; direct measure)</p> <p>GP all<br/>Diet all<br/>GP completers<br/>Diet completers</p> <p>2) Change in BMI (kg/m<sup>2</sup>)</p> <p>GP all<br/>Diet all<br/>GP completers<br/>Diet completers</p> <p>3) Change in waist circumference (cm)</p> <p>GP all<br/>Diet all<br/>GP completers<br/>Diet completers</p> <p>4) Change in TG (mmol/L)</p> <p>GP all<br/>Diet all<br/>GP completers<br/>Diet completers</p> <p>5) Change in LDL (mmol/L)</p> <p>GP all<br/>Diet all</p> | <p><u>12 mo</u></p> <p>-2.5<br/>-3.2<br/>-2.4<br/>-4.5</p> <p>-0.88<br/>-1.14<br/>-0.88<br/>-1.60</p> <p>-2.98<br/>-2.87<br/>-3.26<br/>-4.17</p> <p>-0.19<br/>-0.67<br/>-0.18<br/>-0.68</p> <p>-0.42<br/>-0.39</p> | <p>-2.5</p> <p>-0.88</p> <p>-2.98</p> | <p>12 months</p> |
| Group  | N <sub>0</sub>  | N <sub>1</sub>  |                |                                 |                 |                |     |     |      |     |     |  |  |                                       |                  |
| GP   | 191   | 130   |                |                                 |                 |                |     |     |      |     |     |  |  |                                       |                  |
| Diet   | 312   | 209   |                |                                 |                 |                |     |     |      |     |     |  |  |                                       |                  |

| Study  | Intervention and Comparison  | Study Population  | Effect measure   | Reported Baseline and Follow-Up  | Reported effect | Follow-up time |   |    |    |    |    |    |    |    |    |    |    |    |   |  |  |                         |
|--|--|---|--|--|-----------------|----------------|---|----|----|----|----|----|----|----|----|----|----|----|---|--|--|-------------------------|
|  |  |   | GP completers<br>Diet completers<br><br>6) Change in HDL (mmol/L)<br>GP all<br>Diet all<br>GP completers<br>Diet completers<br><br>7) Change in Total Cholesterol (mmol/L)<br>GP all<br>Diet all<br>GP completers<br>Diet completers | -0.41<br>-0.35<br><br>0.12<br>0.02<br>0.13<br>0.03<br><br>-0.45<br>-0.56<br>-0.45<br>-0.58 | -0.45           |                |   |    |    |    |    |    |    |    |    |    |    |    |   |  |  |                         |
| <b>Author (year):</b> Woolard et al. (2003)<br><br><b>Study Period:</b> not reported<br><br><b>Study Design:</b> RCT<br><br><b>Design Suitability:</b> Greatest<br><br><b>Quality of Execution:</b> Fair | <b>Location:</b> Perth, Western Australia<br><br>Nurses received 170 hours training on transtheoretical model<br><br><b>Components:</b><br>High level – individual face-to-face counseling once a month (up to 60 minutes) for 12 months by nurse counselor (total time up to 720 minutes)<br><br>Low level – one initial face-to-face counseling and contacted by phone once a month (10-15 minutes) for 12 months by nurse | 7 general practices<br>Number of nurses used is unknown<br><br><table border="1"> <thead> <tr> <th>Group</th> <th>N<sub>0</sub></th> <th>N<sub>1</sub></th> <th>N<sub>2</sub></th> </tr> </thead> <tbody> <tr> <td>C</td> <td>69</td> <td>53</td> <td>57</td> </tr> <tr> <td>Lo</td> <td>69</td> <td>49</td> <td>52</td> </tr> <tr> <td>Hi</td> <td>74</td> <td>48</td> <td>54</td> </tr> </tbody> </table> | Group  | N <sub>0</sub>   | N <sub>1</sub>  | N <sub>2</sub> | C | 69 | 53 | 57 | Lo | 69 | 49 | 52 | Hi | 74 | 48 | 54 | 1) BMI (kg/m <sup>2</sup> )<br>Low<br>High<br>Control<br><br>2) Weight (kg) (direct measure)<br>Low<br>High<br>Control<br><br>4) Total energy (kJ)<br>Low<br>High<br>Control<br><br>5) Total fat (% of energy)<br>Low<br>High<br>Control<br><br>Can't use lipid information because some subjects received lipid-lowering drugs | Change at <u>12 mo</u> <u>18 mo</u><br><br>0.38 0.21<br>0.18 0.50<br>0.70 0.60<br><br>1.0 0.5<br>0.5 1.2<br>2.0 1.7<br><br>-1520 -801<br>-815 -1214<br>-720 -1200<br><br>-3.7 -3.8<br>-3.8 -2.0<br>-1.9 -1.8 | -0.32 -0.39<br>-0.52 -0.10<br><br>-1.0 -1.2<br>-1.5 -0.5 | 12 months and 18 months |
| Group  | N <sub>0</sub>   | N <sub>1</sub>  | N <sub>2</sub>   |  |                 |                |   |    |    |    |    |    |    |    |    |    |    |    |   |  |  |                         |
| C  | 69   | 53  | 57   |  |                 |                |   |    |    |    |    |    |    |    |    |    |    |    |   |  |  |                         |
| Lo   | 69   | 49  | 52   |  |                 |                |   |    |    |    |    |    |    |    |    |    |    |    |   |  |  |                         |
| Hi   | 74   | 48  | 54   |  |                 |                |   |    |    |    |    |    |    |    |    |    |    |    |   |  |  |                         |

| Study | Intervention and Comparison   | Study Population | Effect measure | Reported Baseline and Follow-Up | Reported effect | Follow-up time |
|-------|---|------------------|----------------|---------------------------------|-----------------|----------------|
|       | counselor (total time up to 144 minutes)<br><br><b>Comparison:</b> Usual care, under care of general practitioner and offered heart health literature |                  |                |                                 |                 |                |

Absolute effect size is calculated unless otherwise noted.

Abbreviations

- BMI, Body Mass Index
- DBP, diastolic blood pressure
- GP, general practitioner
- HDL, high density lipoprotein
- kg, kilogram
- kJ, kilojoule
- LDL, low density lipoprotein
- N<sub>0</sub>, sample size at baseline
- N<sub>1</sub>, sample size at time 1
- N<sub>2</sub>, sample size at time 2
- NRCT, non-randomized control trial
- RCT, randomized control trial
- RD, registered dietitian
- SBP systolic blood pressure
- TG, triglyceride
- VLCD, very low calorie diet