**Table 21b. Weight change outcomes in interventional studies on CVD\_T2DM**

| **Author, year** | **Arm** | **Outcome defined** | **Baseline N** | **Baseline weight, mean** | **N at 12 months** | **Weight, 12 months, mean** | **Change from BL** | **Final measure, months** | **N at Final Measure** | **Weight, final measure, mean** | **Change from BL** | **Measure of Association** | **Test for Trend** | **Variables Adjusted for** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Diet Interventions** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Razquin, 20109 | 1 | kg | 196 | Mean : 74.5.3  SE: 11.8 |  |  |  | 36 | Not reported | SE : 0.3  Mean change : -0.10 |  | Arm 1 N=196  Arm 2 N=302  36-mo body weight change (36 mo vs baseline)  0.202 (95% CI:  -0.593 to 0.997)  P=0.618 |  |  |  |
|  | 2 |  | 302 | Mean : 75.6  SE: 11.9 |  |  |  | 36 | Not reported | Mean  SE: 0.2  Mean change : -0.21 |  |  |  |  |  |
|  | 3 |  | 239 | Mean : 74.6  SE: 10.3 |  |  |  | 36 | Not reported | Mean  SE : 3.8  Mean change : -0.07 |  |  |  |  |  |
| Abraira, 198010 | 2 | abs weight in kg; |  | Mean : 63.0 | Mean change : 0.74 |  | Mean change : 0.94 |  |  |  |  | Mean between-group change at 12 mo: -0.8 (reference=unmeasured diet) | note "no significant changes in either group" |  | % change in weight reported at 12 mo and 24 mo; abstracted 12- and 24- mo data from Fig 1 using Engauge |
|  | 3 |  |  | mean : 64.4 | mean change : 1.58 |  | mean change : 0.96 |  |  |  |  |  |  |  |  |
| **Physical Activity Interventions** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Yates, 20105 | 1 | kg | 26 | mean : 82.7, SD : 14.7 | n : 26 | Mean: 81.9 | Mean: -0.8, 95%CI: -2.3 to 0.6 |  |  |  |  |  |  | Other : baseline weight |  |
|  | 2 |  | 24 | mean: 80.7, SD: 17.2 | n : 24 | Mean: 81.2 | Mean: 0.5, 95% CI: -1.2 to 2.2 |  |  |  |  | Arm 1 N =26  Arm 2 N=24  Mean between-group difference from baseline  1.4 (95% CI:  -0.8 to 3.5)  P=0.199  Reference=Arm 1 |  |  |  |
|  | 3 |  | 24 | mean : 82.8,SD : 14.6 | n : 24 | Mean: 82.3 | Mean: -0.5, 95% CI: -2.1 to 1.1 |  |  |  |  | Arm 1 N =26  Arm 3 N=24  Mean between-group difference from baseline  0.3 (95% CI:  -1.8 to 2.5)  P=0.749  Reference=Arm 1 |  |  |  |
| Anderssen, 199511 | 1 | kg | 43 | Mean: 89.3, SEM: 2.1 | n: 43 | Mean: 90.4 | Mean: 1.1, SEM: 0.4 |  |  |  |  |  |  |  |  |
|  | 2 |  | 49 | Mean: 89.7, SEM: 1.7 | n: 49 | Mean: 88.8 | Mean: -0.9, SEM: 0.7 |  |  |  |  | Mean between-group difference from baseline  -2  95% CI: -3.4 to -0.6, P=0.007 |  |  |  |
| **Combination Interventions** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kumanyika, 200512 | 1 | kg | 577 |  |  |  |  | 36 | NR | SD : 5.3  Mean change : 1.8 |  |  | None of these weight change differences attained statistical significance |  | Within ethnicity-gender subgroups, changes were smaller in the active intervention versus control for men and larger for women. Weight change differences were not statistically significant overall or in subgroups. |
|  | 2 |  | 582 |  |  |  |  | 36 | NR | SD : 5.2  Mean change : 1.7 |  | Mean between-group change: -0.1, SE: 0.31, P=0.75  Reference=arm1 |  |  |  |
| Samaras,  19977 | 1 | kg at 12 mo minus baseline | 13 | Mean : 98.2  SE : 3.4 | Check if this is the last timepoint reported | Mean : 0.79  SE : 1.09 |  |  |  |  |  |  | No between-arm difference on ANOVA or Mann Whitney |  | Measures at 12 months are "changes since baseline measures) |
|  | 2 |  | 13 | Mean : 83.0  se : 3.6 | Check if this is the last reported timepoint | Mean : 0.14  se : 1.09 |  |  |  |  |  |  |  |  |  |
| Babazono, 20078 | 1 | kg | 41 | Mean : 58.6  SD : 9.1 | N : 41  check if this is the last timepoint reported | Mean : 58.1  SD : 8.8 | -0.5 |  |  |  |  |  | no statistically significant differences in body weight between the two groups at baseline or after 1 yr follow up |  |  |
|  | 2 |  | 46 | Mean : 58.5  SD : 9.7 | N : 46  Check if this is the last reported timepoint | Mean : 57.1  SD : 9.5 | -1.4 |  |  |  |  | Mean between-group change from baseline: -0.9 |  |  |  |
| Gram, 20106 | 1 | kg | 22 | Mean : 99  SD : 15 | N: 20  check if this is the last timepoint reported | Mean : 98.8  SD  SE: 3.2 |  |  |  |  |  | Arm 1 N= 20  Arm 2 N=24 |  |  |  |
|  | 2 |  | 24 | Mean : 93.6  SD : 14.8 | N: 24  Check if this is the last reported timepoint | Mean : 92.5  SD  SE: 3.2 | Mean difference between Groups  -1.26 (95%CI  -3.09 to : 0.58)  Se: 0.9 |  |  |  |  |  |  |  |  |
|  | 3 |  | 22 | Mean : 88.9  SD : 14.3 | N : 21  Check if this is the last reported timepoint | Mean : 87.1  SD  se : 3.3 | Mean between Group difference: -1.1, SE: 1.1, 95%CI: -3.31 to 1.11 |  |  |  |  |  |  |  |  |
| Stefanick, 199813  Women | 1 | kg | 45 | Mean: 69.6,  SD: 10.5 (for all 4 arms) | 45 |  | Mean: 0.8,  SD: 4.2 |  |  |  |  | P<0.001 from ANOVA comparing weight change across all 4 arms |  |  | P values adjusted for multiple comparisons using Bonferroni’s adjustment |
|  | 2 |  | 43 |  | 43 |  | Mean:  -0.4, SD: 2.5 |  |  |  |  | Mean between-group difference (95% CI): -1.2 (-2.6 to 0.2)  Reference=arm1 |  |  |  |
|  | 3 |  | 46 |  | 46 |  | Mean: -2.7, SD: 3.5 |  |  |  |  | P<0.05 versus Arm 2, P<0.001 versus Arm 1;  Mean between-group difference (95% CI): -3.5 (-5.1 to -1.9)  Reference=arm1 |  |  |  |
|  | 4 |  | 43 |  | 43 |  | Mean: -3.1, SD: 3.7 |  |  |  |  | P<0.01 versus Arm 2, P<0.001 versus Arm 1  Mean between-group difference (95% CI): -3.9 (--5.6 to -2.2)  Reference=arm1 |  |  |  |
| Stefanick, 199813  Men | 1 | kg | 46 | Mean: 84.2,  SD: 10.8 (for all 4 arms) | 46 |  | Mean: 0.8,  SD: 2.7 |  |  |  |  | P<0.001 from ANOVA comparing weight change across all 4 arms |  |  |  |
|  | 2 |  | 47 |  | 47 |  | Mean:  -0.6,  SD: 3.1 |  |  |  |  | Mean between-group difference (95% CI): -1.4 (--2.6 to -0.2)  Reference=arm1 |  |  |  |
|  | 3 |  | 49 |  | 49 |  | Mean:  -2.8, SD: 3.5 |  |  |  |  | P<0.05 versus Arm 2, P<0.001 versus Arm 1  Mean between-group difference (95% CI): -3.6 (--4.9 to -2.3)  Reference=arm1 |  |  |  |
|  | 4 |  | 48 |  | 48 |  | Mean:  -4.2, SD: 4.2 |  |  |  |  | P<0.001 versus Arm 2, P<0.001 versus Arm 1  Mean between-group difference (95% CI): -5.0 (--6.4 to -3.6)  Reference=arm1 |  |  |  |

Abs = Absolute; ANOVA = Analysis of Variance test; BL = Baseline; Kg= kilogram; N = Sample Size; SD = Standard Deviation; SEM = Standard Error of the Mean

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