**Appendix 1- US and UK cardiovascular prevention guideline targets**

*Methods*

Achievement of targets for US and UK guidelines for blood pressure (BP), cholesterol and antiplatelet therapy for trial participants at 12 months was assessed in the same way as for the European guidelines. For the US, targets were obtained from the American College of Cardiology (ACC) / American Heart Association (AHA) for BP (<130/80 mm Hg)1 and from the AHA / ACC Foundation for low density lipoprotein cholesterol (<70 mg/dL [1.8 mmol/L; or non-high density lipoprotein cholesterol of <100 mg/dL [2.6 mmol/L]] for those with a prior event, otherwise <100 mg/dL [2.6 mmol/L]; or non-high density lipoprotein cholesterol of <130 mg/dL [3.4 mmol/L]) and antiplatelet therapy for secondary prevention.2 The most recent US guideline for the treatment of cholesterol focuses on the appropriate intensity of statin therapy as opposed to target cholesterol levels.3 UK targets were obtained from National Institute for Health and Care Excellence (NICE) guidelines (BP <140/90 mm Hg,4 total cholesterol <5 mmol/L,5 and antiplatelet therapy for secondary prevention6-8).

*Results*

*Appendix 1 Table 1.* Achievement of treatment targets by guideline at 12 months

|  |  |  |  |
| --- | --- | --- | --- |
| Target | Polypill  n/N (crude %) | Usual care  n/N (crude %) | RRa (95% CI) |
| **UK guidelines** | | | |
| BP | 887/1393 (64%) | 794/1347 (59%) | 1.08 (1.02-1.14)\* |
| TC | 1154/1371 (84%) | 1062/1333 (80%) | 1.06 (1.02-1.10)\* |
| Antiplatelet | 1038/1086 (96%) | 1031/1078 (96%) | 1.00 (0.98-1.01) |
| BP and TC and antiplateletb | 746/1393 (54%) | 642/1352 (47%) | 1.13 (1.05-1.22)\* |
| **US guidelines** | | | |
| BP | 585/1393 (42%) | 447/1347 (33%) | 1.27 (1.16-1.40)\* |
| LDL | 524/1343 (39%) | 443/1294 (34%) | 1.13 (1.02-1.25)\* |
| Antiplatelet | 1038/1086 (96%) | 1031/1078 (96%) | 1.00 (0.98-1.01) |
| BP and LDL and antiplateletb | 223/1386 (16%) | 158/1343 (12%) | 1.37 (1.13-1.66)\* |
| Non-HDL cholesterol | 608/1364 (45%) | 560/1323 (42%) | 1.05 (0.96-1.14) |

BP=blood pressure, CI=confidence interval, HDL=high density lipoprotein, LDL=low density lipoprotein cholesterol, RR=risk ratio, TC=total cholesterol

\*p<0.05 after Holm-Bonferroni correction for multiple testing of targets within the same guideline

aRRs were obtained from a log-binomial regression model as described in the methods section

bAntiplatelet target only applicable to people with established cardiovascular disease

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