

Hypertension 2008







Poster Session 20 - Implementation of Guidelines & Integrated Treatment Approaches in Cardiovascular and

PS20/MON/05 - Effectiveness of quality circles to improve hypertension control in Spanish primary care

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Objectives: The purpose of our study was to evaluate the effect of a quality improvement intervention in the care of cardiovascular risk factors in hypertensive patients. Methods Quality assurance study. Two health centres with fourteen family doctors. One centre (seven doctors) was assigned to receive a quality improvement intervention while the other centre was assigned the control group. 482 hypertensive patients were in the in study group (64% females, mean age 61.4 years (SD 6.8)), and 360 were in the control group (63% females, mean age 60.7, (SD 7.4)). Quality improvement circles consisting of audit, feedback, training sessions, and guidelines discussion were implemented. Criteria of hypertension control, blood pressure, weight, lipids, smoking, cardiovascular risk and antihypertensive drugs used was measurement before intervention and again one year later.

Results: The mean improvement in process criteria after the intervention was 5.3 percent points (CI95%:3.7-6.9). Systolic blood pressure was decreased by 3.5 mmHg(IC95%:1.6-5.3) and Diastolic blood pressure by 2.5 mmHg(IC95%:1.3-3.8). Adequate BP control was significantly increased in the intervention group (29.1% to 40.9%;p<0.01), while no effect was achieved in the control group. Absolute cardiovascular risk decreased (15.86 to14.34%, p<0.01) in the study group, with no changes in the control group. Absolute risk decreases 2.07(IC95%:1.21-2.93) and relative risk 0.25 (IC95%:0.14-0.35) percent points. The mean consumption of antihypertensive drugs increased more in the study group (1.25 to 1.41) than in the control group (1.27 to 1.32).

Conclusion: The quality intervention was effective in improving the quality care process and decreased blood pressure and absolute and relative cardiovascular risk.

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