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EFFECT OF DRUG COST-SHARING CHANGE ON NON-ADHERENCE TO ESSENTIAL MEDICATIONS FOR ACUTE CORONARY SYNDROME: A POPULATION BASED NATURAL EXPERIMENT

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Background

In July 2012, the Spanish drug cost-sharing scheme was reformed, providing the opportunity to evaluate the consequences of this change on patient adherence. The aim of this study was to assess the impact of the cost-sharing change on medication adherence in patients with acute coronary syndrome (ACS) in the Spanish region of Valencia.

Methods

Population-based retrospective cohort of all patients 35 years old and over discharged after an ACS from public hospitals in the Valencia region during 2009-2011, followed until 2013. We used Difference in Difference to estimate the policy change effect on adherence to antiplatelet, beta-blockers, ACEI/ARB and statins of a control group — low income working population who did not change their status (40% coinsurance, unchanged) — and two intervention groups: pensioners (who moved from full coverage to 10% coinsurance) and middle to high income working population, for whom coinsurance grew from 40% to 50% or 60%

of drug cost.

Results

No significant differences in non-adherence between intervention and control groups were found for medications with low price and low patient maximum coinsurance, such as antiplatelet and beta-blockers. For ACEI/ARB and statins, the change had an immediate effect in the proportion of non-adherence in the pensioner group as compared with the control group (6.8% and 8.3% increase respectively, p<0.01 for both). Non-adherence to statins significantly increased after the reform for the middle to high income group vs. control group (7.8% increase, p<0.01). However, those effects were transitory.

Conclusions

Coinsurance changes may lead to increased non-adherence to proven, effective therapies, especially for higher priced agents with higher patient cost share. Adherence was already suboptimal before the cost-sharing policy change, with a clear cost / income gradient. Consideration should be given to fully exempt high risk patients from drug cost-sharing.