OBJECTIVE: To evaluate the cost consequences of LMWH compared with unfractionated heparin in the treatment of unstable angina pectoris in Japan.

METHODS: A cost-consequence analysis was performed using decision-analytic modeling using evidence from the FRISC (Fragmin during Instability in Coronary Artery Disease) study group, Sweden. The decision tree models a patient presenting with unstable angina pectoris and facing the alternative treatments of LMWH or heparin as a basic model. Also, an advanced model was constructed with treatment options that reflected more realistic practice patterns in Japan. Cardiologists reviewed the modeldevelopment process to make the model relevant to the Japanese medical environment. The direct costs were obtained from pilot studies of DRGs in Japanese national hospitals.

RESULTS: In the basic model, we estimated a slight difference in expected costs between LMWH and heparin, favoring LMWH. However, this model was limited in two main areas: 1) difference in effects between LMHW and heparin were not statistically significant in the FRISC study; 2) opportunity costs such as monitoring for heparinization and treatment of bleeding with heparin were not included. When we incorporated realistic assumptions regarding the opportunity costs and Japan's treatment patterns, we found that the total medical costs for the LMWH group were much lower than for the heparin group even if the clinical effects for heparin and LMWH were set as equal. In this case, the estimated cost in the LMWH group was about \$11,300 per patient and \$19,600 for the heparin group assuming LMWH is properly used in clinical practice. This result was robust to a range of sensitivity analyses.

CONCLUSION: The use of LMWH for unstable angina pectoris in actual clinical practice where heparin monitoring can be avoided appears to be cost-saving in Japan. Considering the target population of 700,000 patients in Japan, the LMWH will have a great economic impact on society.

the Ravenna Local Health Unit. By crosschecking with the registry office and hospital database, gender, age and previous hospitalizations for cardiovascular diseases were also made available. All new users over 20 years old receiving a first prescription for diuretic, beta-blocker, calcium-channel-blocker, angiotensin-converting-enzyme inhibitor or angiotensin II antagonist between 01/01/1997 and 12/31/1997 were included. According to persistency of treatment, patients were classified as continuers (duration of therapy over 273 days with the initial antihypertensive class), switchers (duration of therapy over 273 days with a different class of antihypertensive than originally prescribed) and discontinuers (duration of therapy less than 273 days). The follow-up period lasted 365 days.

RESULTS: A total of 16,783 patients were enrolled, including 7409 men (44.1%) and 9374 women (55.9%) with an average age of 56.1 \pm 18.3 years. Continuers and switchers represented 26.9% and 8.2% of enrolled subjects, respectively. The percentage of treatment interruptions (64.9%) ranged from 42.0% with angiotensin II antagonists to 69.8% with diuretics, and 53.8% of the population interrupted therapy after the first prescription. Age, co-morbidities and previous hospitalizations were higher for continuers and switchers than for discontinuers. The overall expenditure accounted for €1,076,053.55 of which 54.8% was for continuers, 19.8% for switchers and 25.4% for discontinuers. The percentage of the overall cost for discontinuers ranged from 14.8% with angiotensin II antagonists to 30.6% with calcium-channel blockers.

CONCLUSION: The high percentage of discontinuers translated into an expense incurred improperly. The high percentage of interruptions after the first prescription seemed to indicate that medication prescribed at enrollment was not appropriate.

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PERSISTENCY OF TREATMENT IN PATIENTS INITIATED ON FIVE DIFFERENT CLASSES OF **ANTIHYPERTENSIVE THERAPY:** A PHARMACO-UTILIZATION AND PHARMACO-ECONOMIC ANALYSIS

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OBJECTIVE: To quantify and qualify the antihypertensive pharmaceutical expenditure incurred for the treatment of a population in the real world.

METHODS: An administrative database, collecting information on all purchased drugs, was used to perform a retrospective analysis for each health-assisted subject by Gabriel S, Dinet J, Guilhaume C, Carita P Sanofi-Synthelabo, Bagneux, France

A POPULATION-BASED EUROPEAN STUDY OF

PERSISTENCE IN NEWLY DIAGNOSED

HYPERTENSIVE PATIENTS

Patients' persistence with chronic treatment is a major component in the effectiveness assessment.

OBJECTIVE: To evaluate whether the initial choice of antihypertensive agent impacts newly diagnosed hypertensive patients' persistence with treatment at one year.

METHODS: The comparisons were between patients initially prescribed irbesartan, angiotensin II receptor antagonists (AIIRA) versus other antihypertensive drugs. We compared the proportion of patients who remained on the monotherapy initially prescribed, added to their initial therapy, switched to another therapy, or discontinued therapy at one year using chi-squared tests. Monotherapy

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