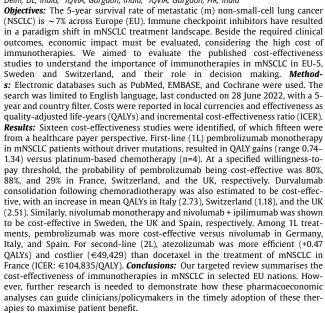
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unbalanced covariates in the propensity score model were included for covariates in the ECM. Outcomes for the ECM were total medical cost, insurance benefit cost, and out-of-pocket expenses for three years. **Results:** After propensity score matching and the ECM, total medical cost, insurance benefit cost, and out-of-pocket expenses for three years were significantly higher than the control group (p<0.01). The incremental total medical cost was estimated at 1,706\$ before and 2,959\$ after reimbursement. It was 34.21% more than the control group after reimbursement (p=0.080). The insurance benefit cost was increased by 41.31% for the DME group after reimbursement (p=0.178). For out-of-pocket expenses, incremental cost was 30.73% compared control group after reimbursement (p=0.053). **Conclusions:** Despite the reimbursement of expensive drugs in DME, the economic impact on payers was not significantly increased. The patient's disease burden is also increased through active and various treatments due to reimbursement. However, to evaluate the precise effect of reimbursement policy, we need to consider the economic impact on various aspects, including clinical effectiveness after reimbursement

EE643

A TARGETED REVIEW OF COST-EFFECTIVENESS OF IMMUNOTHERAPIES USED IN TREATMENT OF METASTATIC NON-SMALL-CELL LUNG CANCER PATIENTS IN EU-5, SWEDEN, AND SWITZERLAND





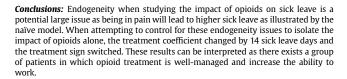
EE645

THE EFFECT OF OPIOID USE ON SICK LEAVE AMONG PATIENTS WITH OSTEOARTHRITIS UNDERGOING JOINT REPLACEMENT: A PROPENSITY SCORE ADJUSTMENT APPROACH

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Objectives: Estimate the impact of high-dose opioid use on sick leave among patients with osteoarthritis (OA) undergoing joint replacement, adjusting for endogeneity through propensity scores (PS). Methods: This was a non-interventional observational study using the Swedish Patient, Prescription Drug and sick leave registers in patients with hip/knee OA and a hip/knee joint replacement between 2011 and 2014. High-dose opioid use was defined as being dispensed \geq 4500 oral $morphine\ equivalents\ (OMEQ)\ (binary\ variable)\ during\ the\ exposure\ period\ from\ one$ month to one year after surgery. The outcome variable was the number of sick leave days in the year following the end of the exposure period. A PS model was estimated including age and sex at surgery, comorbidities (Elixhauser index and chronic pain related), NSAID and opioid use measured during three-year pre-surgery. Two OLS regression models were estimated, one naïve model regressing sick leave on opioid use, and one model also including the PS. Results: In total 19,901 patients were identified. The mean age at surgery was 53.6, 47% were male and 10% were dispensed ≥4500 OMEQs during exposure. In the naïve model, opioid use was associated with 7.3 more sick leave days (95% CI: 5.2-9.4). When adding the PS, use of opioids was associated with 6.9 fewer days on sick leave (95% CI: -10 - -3.7).

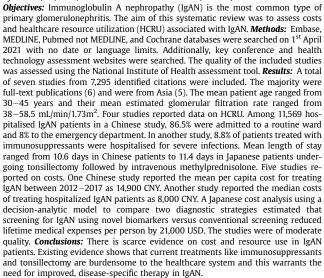


EE646

SYSTEMATIC REVIEW ON COST AND HEALTHCARE RESOURCE UTILIZATION IN IMMUNOGLOBULIN A NEPHROPATHY (IGAN)



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EE647

REAL-WORD EFFECTIVENESS AND COST CONSEQUENCE OF ANTIPSYCHOTIC TREATMENT CHOICES IN THE TREATMENT OF SCHIZOPHRENIA IN ITALY: A BAYESIAN HIERARCHICAL INFERENCE MODEL

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Objectives: The use of long-acting injectable antipsychotics (LAIs) is considered an important option in the management of schizophrenia, as their pharmacokinetics offer considerable advantages in terms of compliance and drug plasma level compared with oral antipsychotics (OAPs). Aim: To investigate factors affecting the efficacy of antipsychotics in terms of relapse prevention in the real-world and to estimate their real-life impact in terms of overall disease management cost. Methods: We conducted a literature search using MEDLINE/PubMed with the aim of extracting efficacy and effectiveness data of LAIs and OAPs. The primary outcome was relapse rate (RR). RRs reported from RCTs and low risk of bias observational studies were pooled and analyzed in a Bayesian hierarchical model in order to estimate the real-world effectiveness of relapse prevention as function of antipsychotic generation (second- vs. first-generation, SGA vs. FGA), administration route (parenteral vs. oral) and frequency. Resulting estimates were used as inputs for an economic evaluation of the management costs of schizophrenia from the Italian NHS perspective. Results: 50 studies reporting on 71 direct comparisons met inclusion criteria. The model estimates indicate increasing effectiveness with LAIs vs. OAPs, SGAs vs. FGAs, and lower administration frequency. The lowest RR is predicted for SGA LAIs administered once every 3 or 6 months, with relative reductions of 77% and 83% compared to FGA OAPs. Economic evaluation results show that the least expected cumulative cost is associated to SGAs administered every 180 days, with an overall cost reduction of more than € 2,000 per patient at 1 year, if compared to FGA OAPs. Conclusions: In the Italian setting, SGA LAIs administered every 180 days are expected to be the a high value option for the treatment of patients with schizophrenia from both the clinical and economic perspectives.

EE648

ECONOMIC ANALYSIS OF NEW SINGLE-INHALER TRIPLE THERAPIES IN PATIENTS WITH COPD IN THE UK

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