Conclusions. This systematic review allows both to identify gaps and opportunities in psychosocial interventions research and be the base for the CDSS algorithm. In the future professionals, careers and people diagnosed with ASD will validate the mobile CDSS.

PP170 Quantifying the Life-Cycle Value of Second Generation Antipsychotics

Mikel Berdud (mberdud@ohe.org), Niklas Wallin-Bernhardsson, Bernarda Zamora, Peter Lindgren and Adrian Towse

Introduction. We estimate the life-cycle value of risperidone – Second-Generation Antipsychotics (SGA) – to balance the view that cost per Quality-Adjusted Life Year (QALY) estimates at launch are enough to guide access decisions. Study results will also drive discussion on access and price to recognize the dynamic nature of pharmaceutical pricing over the long-run.

Methods. We estimated number of patients treated for schizophrenia with risperidone in Sweden and the United Kingdom (UK) between 1994-2017 based on usage data form national statistics and volume sales data from IQVIA. We collected data from literature on the effectiveness (QALYs) and costs (EUR 2017) of risperidone (SGA) and haloperidol – First-Generation antipsychotic (FGA). We estimate the life-cycle value added by risperidone versus haloperidol, and the life-cycle distribution of the social surplus between the payer (consumer surplus) and the innovator (producer surplus).

Results. We estimated the consumer surplus, the producer surplus, the Net Monetary Benefit (NMB) and Incremental Cost-Effectiveness Ratio (ICER) at each year and in aggregate terms (1993-2017). For the UK the producer surplus was \sim 28 percent out of the total surplus before patent expiration and five percent after patent expiration. In Sweden, producer surplus was around 6 percent out of the total surplus before patent expiration and one percent thereafter. In both countries, during the life-cycle of risperidone, the NMB per patient increased and the ICER decreased as a response to: (i) the launch of Risperidone Long-Acting Injectable (RLAI); and (ii) the generic entry.

Conclusions. The value added by risperidone increased during the life-cycle due to the launch of RLAI and the generic competition. This suggests that, considering the entire life-cycle, the value added by SGAs to the system is higher than the expected value estimated using cost-effectiveness analysis at launch. Pricing and reimbursement decisions should take into account the dynamic nature of pharmaceutical markets and the value added by innovative medicines over the long-run.

PP171 Cost And Effectiveness Of Chronic Hepatitis C Treatment In Brazil

Karin Hepp Schwambach (karinhsch@yahoo.com.br), Mareni Rocha Farias, Giacomo Balbinotto Neto and Carine Raquel Blatt **Introduction.** With the discovery of new direct-acting antivirals, the cure for hepatitis C appears to be a reality, but its high price and the availability of new antivirals are a major obstacle. In Brazil, treatments for hepatitis C have been available in the public health system since the 1990s, and in 2015 were made available the antivirals sofosbuvir, daclatasvir and simeprevir. The calculation of the budgetary impact of this merger estimated expenditures between 467 and 666 million Reais (USD 121 and 172 million) per year. This study aims to present and discuss the cost and effectiveness of hepatitis C treatment with direct-acting antivirals with or without alfapeginterferon and ribavirin, based on real-life data, and compare it with the world scenario.

Methods. We analyzed the treatment data and outcomes of 253 patients from a retrospective cohort performed in a Specialized Care Service, in the city of Porto Alegre. In relation to costs, the direct costs of antiviral drugs, per unit (tablet), were considered according to financial receipts from public purchases. The total cost of the medications used by each individual in each treatment and the cost per cure obtained, expressed in Sustained Viral Response (SVR), were calculated.

Results. Most patients (66.8 percent) had genotype 1 of the hepatitis virus and 92.9 percent achieved SVR. The mean total cost of treatment of patients with genotype 1 was USD 5,862.31 and USD 6,310.34 per cure; while in patients with genotype 3 the cost was USD 5,144.27 and USD 5,974.76 per cure. The cost with the most commonly used treatment regimen, sofosbuvir, daclatasvir and ribavirin was USD 5,961.25 and USD 6,536.46 per cure. These values were 30 percent lower than the values estimated at the time of drug incorporation.

Conclusions. Cost and effectiveness data contextualize a real-life scenario in Brazil. The evaluated treatments presented good effectiveness, but high costs.

PP173 Is Early Modelling Too Late? Preventing Pitfalls And Optimizing Value

Andrea Berardi (Andrea.Berardi@PAREXEL.com), Richard Macaulay and Sukhvinder Johal

Introduction. Drug development is a risky business. Manufacturers are faced with the dilemma of whether or not to invest at any stage in the development process. Even once marketing authorization has been attained, payers are becoming increasingly demanding of evidence to justify price premiums in the face of increasing budgetary pressures. Cost-effectiveness is a critical decision-making criterion for many payers, and restrictions to sub-populations is common. Early economic modelling at very early phases of the development pathway can inform optimal investment decision-making, including go/no-go decisions and clinical trial design, particularly in population selection. To test the hypothesis of changing payer requirements, we carried out a study on the trends in reimbursement submissions where payers approved but ultimately restricted the population compared to the marketing license or the company's target population.

Methods. A systematic literature review of all single technology appraisals (STAs) by the National Institute for Health and Clinical Excellence (NICE) was carried (01/01/2006- to 16/11/