

## PP194 Intersectoral Costs And Benefits In The Societal Perspective

Ruben Drost ([r.drost@maastrichtuniversity.nl](mailto:r.drost@maastrichtuniversity.nl)), Inge van der Putten, Dirk Ruwaard, Silvia Evers and Aggie Paulus

**Introduction.** Many health care interventions have costs and benefits that spill over to sectors outside the healthcare sector. Little is known about these inter-sectoral costs and benefits (ICBs). However, to achieve an efficient allocation of scarce resources, insights on ICBs are indispensable. The main objective of this study was to identify the ICBs related to health care and provide a sector-specific classification scheme for these ICBs. For this sector-specific classification scheme mental disorders were taken as an example, as we expect that this is the sector with the most ICBs.

**Methods.** Using PubMed, a literature search was conducted for ICBs of mental disorders and related (psycho)social effects. A policy perspective was used to build the scheme's structure, which was adapted to the outcomes of the literature search. In order to validate the scheme's international applicability inside and outside the mental health domain, semi-structured interviews were conducted with (inter)national experts in the broad fields of health care.

**Results.** The searched-for items appeared in a total of fifty-two studies. The ICBs found were classified in one of four sectors: "Education", "Labor and Social Security", "Household and Leisure" or "Criminal Justice System". Psycho(social) effects were placed in a separate section under "Individual and Family". Based on interviews, the scheme remained unadjusted, apart from adding a population-based dimension.

**Conclusions.** This is the first study which offers a sector-specific classification of ICBs. Given the explorative nature of the study, no guidelines on sector-specific classification of ICBs were available. Nevertheless, the classification scheme was acknowledged by an international audience and could therefore provide added value to researchers and policymakers in the field of health technology assessment. The identification and classification of ICBs offers decision makers supporting information on how to optimally allocate scarce resources. By exploring a new area of research, which has remained largely unexplored until now, the current study has an added value as it may form the basis for the development of a tool which can be used to calculate the ICBs of health care interventions.

## PP207 Evaluation On Effects Of Antimicrobial Stewardship In Tertiary Comprehensive Public Hospitals in Hainan, China

Hong Zhou ([2632264556@qq.com](mailto:2632264556@qq.com))

**Introduction.** The National Health Commission issued a special task force on antimicrobial stewardship (AMS). We assess the effects of AMS from 2012 to 2016 in four tertiary comprehensive

hospitals in Hainan Province, China, to explore the achievement of AMS to facilitate rational use, to control antimicrobial resistance (AMR), to ensure safety and quality of care.

**Methods.** Data from Hospital Information System (HIS) of hospitals according to the criteria of AMS were analyzed. Microsoft Excel data entry and SAS version 9.3 was used for analysis.

**Results.** The indicators were general compliance to the national criteria from 2012 to 2016. The percentage of following results in hospitals were gradually reduced: the proportion of antibiotic use in outpatient care (11.09 to 3.25 percent); that in emergency departments (8.46 to 1.53 percent); antibiotics use rate of inpatient care (9.13 to 3.12 percent); antibiotics prophylactic use in type I surgical sites (24.19 to 3.38 percent); the proportion of drug cost (5.54 to 0.12 percent) and total cost of antibiotics (3.27 to 0.45 percent); total cost of antibiotics in outpatient care and emergency departments, which was below 10 percent. Pathogenic detection rate of antibiotics from 2013 to 2016 in three hospitals was increased from 38.75 to 59.6 percent. Hainan Provincial Antibiotics Resistance Monitoring Network conscientiously performs duties, several important and special detection rates of AMR close to the average national level, which have been effectively controlled.

**Conclusions.** It is needed to continue AMS and to enhance the capacity of rational use of antibiotics by medical professionals. Information systems need to be developed, coordinated and correlated to monitor the consumption of antibiotic use, surveillance of AMR and control of hospital infection.

## PP210 Identification Of Frailty to Healthy Ageing In European Population

Lucinda Paz-Valiñas, Maria José Faraldo Vallés and Rosendo Bugarín-González ([avalia-t2@sergas.es](mailto:avalia-t2@sergas.es))

**Introduction.** The European population is aging rapidly. The number of Europeans aged over sixty-five will double in the next fifty years. Active and healthy aging is a societal challenge shared by all European countries, but also an opportunity. The World Health Organization indicated that frailty has become an indicator of lack of successful aging. Therefore, identification of frail elderly is becoming important. However, there are many different screening tools that are currently used to identify frailty. The optimal test should have the capacity to easily identify from the community-dwelling population, those older people at risk of adverse outcomes. During the past years, gait speed has been repeatedly reported as an appealing instrument as a screening tool to detect frailty.

**Methods.** Systematic review of literature on gait speed as predictor of frailty was performed.

**Results.** A total of 992 articles were retrieved from the literature search and only eleven studies met the inclusion criteria. Frailty is a common geriatric syndrome, characterized by decreased reserve and increased vulnerability to adverse outcomes, including falls, hospitalization, institutionalization and death. Despite frailty is being increasingly recognized in the literature, there is a paucity of direct evidence to guide interventions to reduce frailty. Many single and composite tools to detect the frailty have been