

(Pharmaco)economic evaluations for mental health related services: the PECUNIA project

J. Simon^{1*}, A. Konnopka², V. Brodzky³, S. Evers⁴, L. Hakkaart-van Roijen⁵, P. Serrano-Pérez⁶, L. Salvador-Carulla⁷, A.-L. Park⁸, W. Hollingworth⁹

pecunia-project.eu @Pecunia_EU judit.simon@muv.ac.at

Key Messages

- The PECUNIA project developed compatible European multi-sectoral, multi-national and multi-person costing and outcome assessment tools.
- Methods & tools allow the harmonised measurement of broader economic & societal impacts of mental health related services, and improve the transferability & comparability of economic evaluations/HTAs.

Background

- Mental health disorders affect large proportions of the general public resulting in major cost consequences within the health care sector (14% of health expenditure) and beyond.
- Currently health economic evaluations lack harmonized costing and outcome tools across economic sectors and countries (Fig. 1).
- The PECUNIA project aims to establish standardised costing and outcome assessment measures for optimised healthcare provision in the EU for multi-sectoral, multi-national and multi-person (pharmaco)economic evaluations using selected mental health disorders as illustrative examples. (Fig. 2)

Figure 1. National unit cost valuation programmes and outcome evaluation methods (EQ-5D) in Europe (2017)

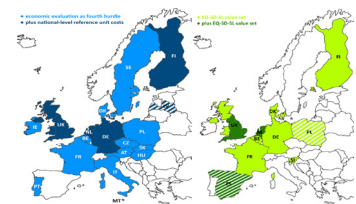
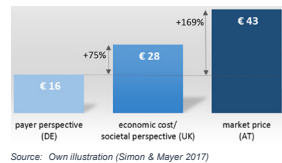


Figure 2. Variation in the unit cost of GP consultation in Austria by different valuation approaches (2015)

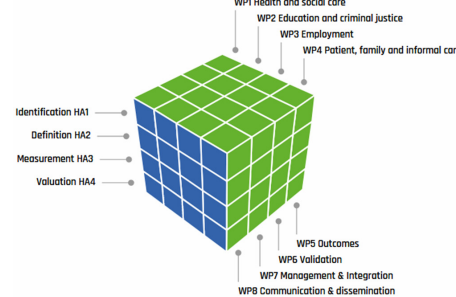


Source: Own illustration (Simon & Mayer 2017)

Source: Own illustration (Simon et al. 2017) ©PECUNIA Consortium

Methods

Figure 3. The PECUNIA cube



Source: Own illustration (Simon et al. 2017) ©PECUNIA Consortium

- Harmonised Identification (HA1), Definition (HA2), Measurement (HA3) and Valuation (HA4) of service and other resource costs in multiple sectors (WP1, 2, 3, 4) (Fig. 3).
- Initial survey of all mental health related services in 6 European countries (AT, DE, ES, HU, NL, UK).
- Followed by harmonised definition and cost valuation of identified service and other resource items.
- Development of matching self-reported resource use measurement (RUM) questionnaire.

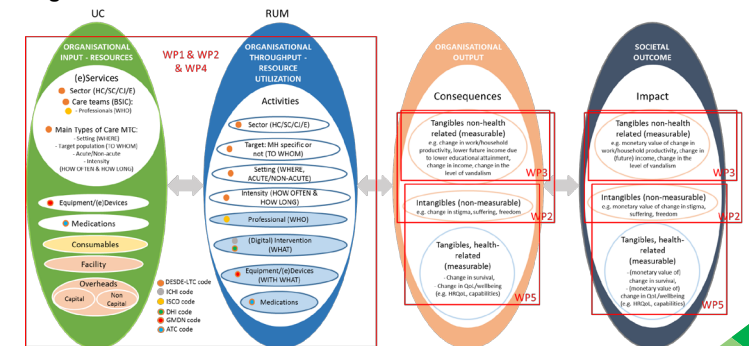
Results

Many taxonomical and conceptual discrepancies hinder comparability in (pharmaco)economic evaluations across countries and sectors.

Development of a new harmonized multi-sectoral costing concept which forms the basis of further international coding, resource use measurement and reference unit cost methods and tools (PECUNIA care atom, Fig. 4)

Multiple standardized and harmonized tools such as DESDE PECUNIA coding system, PECUNIA RUM, PECUNIA Unit Costing Templates, European PECUNIA Unit Cost Compendium, PECUNIA PROM Compendium.

Figure 4. The PECUNIA care atom



Source: Own illustration (Simon et al. 2019) ©PECUNIA Consortium

¹Medical University of Vienna, Department of Health Economics, Wien, Austria, ²University Medical Center Hamburg-Eppendorf, Zentrum für Psychosoziale Medizin, Hamburg, Germany, ³Corvinus University of Budapest, Department of Health Economics, Budapest, Hungary, ⁴Maastricht University, Department of Health Services Research, Maastricht, Netherlands, ⁵Erasmus University Rotterdam, Erasmus School of Health Policy & Management, Rotterdam, Netherlands, ⁶Hospital Universitari Vall d'Hebron, Psychiatry, Barcelona, Spain, ⁷Research School of Population Health, ANU College of Health and Medicine, Australian National University, Centre for Mental Health Research, Sydney, ACT, Australia, ⁸London School of Economics (LSE), Department of Health Policy, London, UK, ⁹Bristol Medical School, University of Bristol, Department of Population Health Sciences, Bristol, UK