



**THE NATIONAL SCHOOL OF PUBLIC HEALTH,  
MANAGEMENT AND PROFESSIONAL DEVELOPMENT  
(NSPHMPDB), BUCHAREST**

**ANNUAL ACTIVITY REPORT**

**2014**

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## General overview

The activity of the National School of Public Health, Management and Professional Development Bucharest (NSPHMPDB) in 2014 has evolved in accordance with the objectives in the annual activity plan, according to the Strategy of institutional development for the period 2010 – 2015. The main objectives to be followed were:

- Improving the existing training programmes;
- Developing new training programmes;
- Diversifying the programmes organised by NSPHMPDB;
- Integration in the international research networks;
- Improving professional performance;
- Diversifying the services offered;
- Improving the functioning of the DRG data collection and reporting system;
- Developing studies and analysis for the increased performance of the health system;
- Increasing the level of visibility of the results obtained;
- Increasing the eligibility level for the reasearch and development;
- Improving the internal managerial control process;
- Increasing the efficiency of resource utilisation;
- Increasing professional performance of the NSPHMPDB.

The main achievements of 2014, according to the above mentioned objectives were:

- Completing the training programme in Hospital management with 4 new modules;
- Revising the training programme in community care;
- Revising the training programme in quality management;
- Developing an introductory course in health management;
- The conceptual development of a training programme for the hospital evaluators;
- The conceptual development of a training programme for the „Reporting, contracting and payment of hospital services”;
- Organising new training programmes in five partnerships;
- The work undertaken under the European network for health technology assessment (EUnetHTA) and the European union network for patient safety and quality of care (PaSQ);
- Developing the institutional capacity in the area of health technology assessment in order to diversify the activities of the NSPHMPDB;

- Developing institutional capacity in the field of patient safety to diversify the activities of the NSPHMPDB;
- Increasing professional performance through further research in areas where there is prior experience (substance use, mental health, community health care);
- Introduction of automated import into the database of the minimum data set at the patient level provided by hospitals, using a login portal available on the [www.drg.ro](http://www.drg.ro) site;
- Updating the DRG National application;
- Introducing a system of data validation of the data submitted by hospitals related to activities done in day hospitalization;
- Publication of 24 articles in journals indexed in international databases, of which 22 articles published in journals with impact factor;
- Six presentations at international events, five presentations at national events;
- Seven systematic reviews of the literature;
- A workshop organized by the project PaSQ;
- 33 articles (of which 2 had co-authors from NSPHMPDB ) and 4 interviews published in the School's own journal "Management in Health";
- Completing the set of procedures and documents related to internal management control;
- Reorganization and clear delineation of staff responsibilities;
- Measures to reduce costs;
- Training and human resource development through participation in training programmes.

The work undertaken in 2014 by NSPHMPDB took into account, in addition to achieving the targets and maintaining a high level of quality and professionalism, also the continuous diversification of activities, so as to meet the needs and demands of partners and collaborators.

## I. Training and professional development activities for health system professionals

Training activity in public health and health management takes place at the three technical levels of the NSPHMPDB:

- the Centre for Management and Health Promotion (CMHP) runs the programmes of training in public health and health management,
- the Centre for Research and Evaluation of Health Services (CREHS) develops mainly training courses in the DRG domain, but also on other topics of health services,
- the National Centre for Professional Development in Health (NCPDH) organizes programmes, courses and trainings in various other areas of health.

The main objectives for the training activity for 2014 were: improving training programmes in progress, the development of new programmes and diversification of training programmes organized by NSPHMPDB. All objectives were successfully achieved.

The objectives of 2014 regarding training were realised by:

- Completing the training programme in Hospital management with 4 new modules;
- Revising the training programme in community care;
- Revising the training programme in quality management;
- Developing an introductory course in health management;
- The conceptual development of a training programme for the hospital evaluators;
- The conceptual development of a training programme for the „Reporting, contracting and payment of hospital services“;
- Organising new training programmes in five partnerships.

The **Centre of Management and Health Promotion**'s (CMHP) main activity is the organization and conduct of courses in public health, health administration and health management. The main programmes run by CMHP in 2014 are summarized in Table 1.

**Table 1. Number of series and number of participants by type of programmes undertaken by CMHP in 2014**

<b>Type of training programme</b>	<b>Series</b>	<b>Participants</b>
Certificate in Health Services Management	6	213
Hospital management – 7 modules	1	42
Hospital management – part II – 4 modules	2	54
Hospital management – 11 modules	2	60
Hospital management for directors of care and chief nurses	2	66
<b>TOTAL</b>	<b>13</b>	<b>435</b>

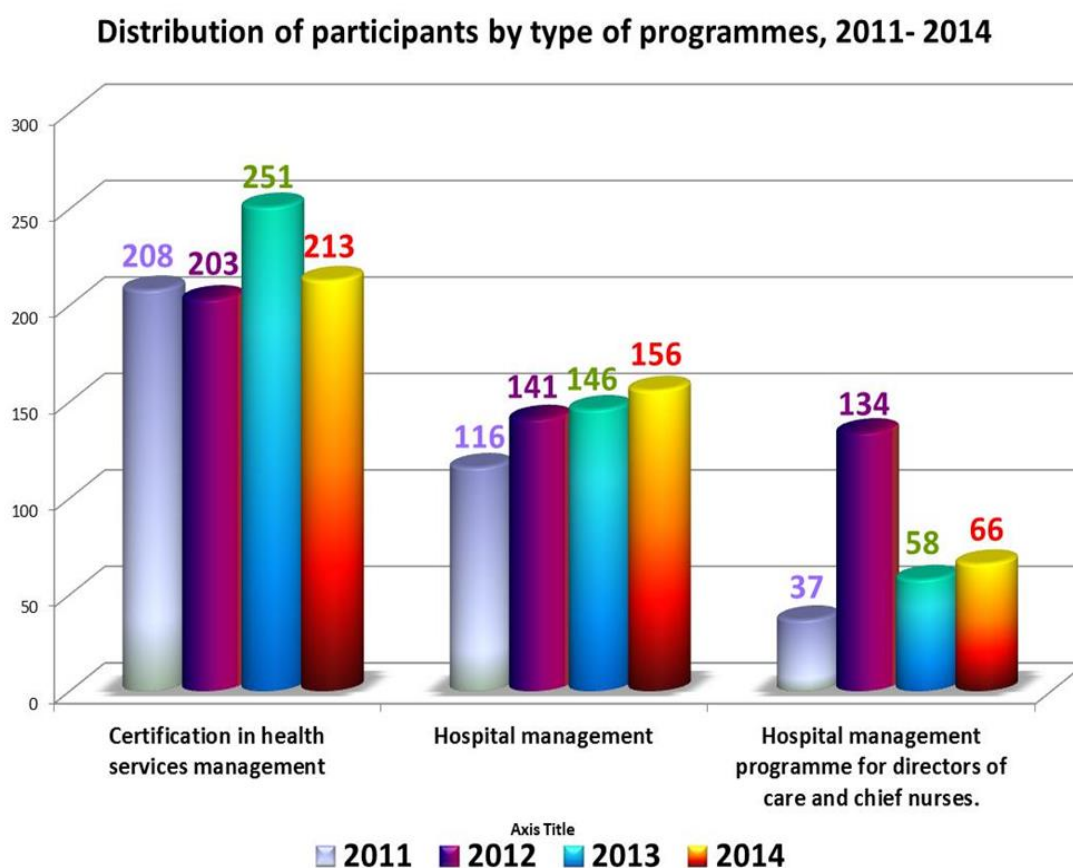
*The training programme for obtaining the certificate in health services management* aims at acquiring knowledge and skills in public health and healthcare management, in order to improve managerial skills in the health units. The programme, lasting 12 weeks, has a modular structure, consisting of 12 modules, and is addressed primarily to physicians willing to occupy a leading position in a health institution. In 2014, there were on-going 6 series: 3 in Bucharest, 2 in Timisoara and one in Iasi. A series in Bucharest, one in Timisoara and one in Iasi will to be completed during 2015. The total number of participants in training programmes, in order to obtain the certificate in health services management in 2014, was 213.

*The hospital management training programme* is organized and provided under Order no. 168/2007 amending the Order of the Minister of Public Health no. 635/2006 approving the organization and conduct of hospital management courses, necessary to fill the position of manager of the public hospital. The programme aims to provide training for hospital managers in order to ensure a high performance management level hospital. In 2014, the internal analysis of the programme developed by CMHP, which compared the course curricula with the current requirements of the position of manager of the public hospital, revealed the need to complete the course with additional subjects. Thus, to the conventional 7 modules were added 4 new modules. Due to numerous requests from alumni, the possibility of completing these studies was created, by covering only the 4 new modules. Thus, in 2014 CMHP organized and conducted five series of hospital management courses. The total number of participants was 156. The distribution by programme type is shown in Table 1.

The **Hospital management programme for directors of care and chief nurses**. The goal of this programme is to provide training for nurses/midwives for the position of director of care or chief nurse in hospital. The course has a modular structure and is conducted over 4 weeks. During 2014, 2 series were conducted, bringing together a total of 66 students.

Through an analysis of programmes provided during the years 2011-2014 by NSPHMPDB (see Figure 1), we find fewer students except for the hospital management programme participants. This is due to the reduction in the offer of training programmes and the increased activity of reviewing programmes and developing new programmes.

**Figure 1. Distribution of participants by type of programmes in 2011- 2014**



The **Centre for Research and Evaluation of Health Services** conducted a training programme in DRG entitled "Minimum set of data at the patient level (SNDP) - from coding to analysing hospital indicators" - 12-intensive hours (6 sessions of 2 hours) for personnel involved in the reporting and monitoring of clinical activity of the hospital. The programme was developed in 2012 and implemented in 2013 and running for eight series to date, attended by 227 people. Of these, 28 participants were trained in 2014.

The lecturers from NSPHMPDB delivered 928 hours of teaching, less than in 2013 (1252), but it represented 80.55% of teaching, as compared to 65% in 2013. Distribution of teaching hours delivered by lecturers of NSPHMPDB by training programme is presented in Table 2.

**Table 2. Distribution of teaching hours delivered by NSPHMPDB lecturers by training programme**

<b>Type of training programme</b>	<b>No. hours</b>
Training for obtaining the certificate in health services management	420
Hospital management	420
Hospital management programme for directors of care and chief nurses	76
SMDP – from coding to analysis of hospital indicators	12
<b>Total</b>	<b>928</b>

The review of training and development of new programmes activities were:

- in the context of a project for the development of human resources with funding from the Structural Funds - EFIACCES HRD/125/5.1/S/127671 80% of the training programme for community nurses was revised and new materials for the course were developed; the programme will run in 2015, with the objective of training 980 nurses in community healthcare specialty;
- in partnership with CNSRL Fratia, the CMHP participated in the "Competencies for adaptability and flexibility in the health system in the context of decentralization" project HRD/81/3.2/S/51596 through the development and implementation of a training programme entitled "Introduction in health management ";
- the Quality management programme has undergone a review process; the programme will resume in 2015;
- concepts for two new programmes of training were developed: a programme for hospital evaluators, developed by CMHP, and a training programme on "Reporting, contracting and reimbursement of hospital services" developed by CREHS; both will be completed and operated starting with 2015;
- towards the development of new courses discussions were initiated on the organization of a specific management course for ambulance services and a course in health technology assessment.



The **National Centre for Professional Development in Health** organized 57 continuing medical education programmes, 49 training programmes in order to obtain the certificate of complementary studies, three training of trainers, 33 internships and 15 specialized nurses programmes totalling 3045 participants (see Table 3). Also NCPDH organised the exam for getting specializations for Spa - Physiotherapy, Laboratory and Radiology - Medical Imaging, for 643 nurses who have received specialized training in these areas.

**Table 3. Professional development programmes organized by NCPDH, 2014**

<b>Type of programme</b>	<b>No. of programmes</b>	<b>No. of participants</b>
Training for getting certified	49	871
EMC doctors and other staff with higher education	23	713
EMC nurses, ambulance drivers, nurses	34	676
Training of trainers	3	60
Specialization of nurses	15	646
Internships	33	79
<b>Total programmes</b>	<b>157</b>	<b>3045</b>

In the course of 2014 a diversification of programmes organized by NCPDH was made, meaning that partnerships were initiated in new areas of training, particularly for certified complementary studies:

- Certificate of inhalosedation - Bucharest University Centre;
- Certificate in general management, clinical and therapeutic sleeping disorders - University Centre Bucharest (Marius Nasta Institute);
- In partnership with CNSRL Fratia, 3 types of new programmes for doctors and nurses were held: "Introduction to radiology and medical imagistics", "Notions of palliative care" and "Introduction in health management";
- Also in the EMC area a programme on foetal ultrasound was initiated in partnership Filantropia Hospital;
- In the area of specialization a training programme was organised for general and paediatric nurses to achieve specializations in: laboratory, physiotherapy, radiology, medical imaging, and nutrition and dietetics.

Course evaluation questionnaires were applied to the programmes run by NCPDH (assessment level I) which allowed assessment of training methodology, the effectiveness of training, etc by course participants. The general conclusions of participants were:

- training content was appropriate to training needs;
- group dynamics generated by training methodology was not always very good, meaning that not always adult learning principles were applied;
- participants require a shift of activities from pure theory into practical field, suggesting more practical experience applied in training programmes;
- participants would like a continuation of training with the purposes of supplying the current training programmes in the respective field with new notions.

All these issues will be considered in the organization of the following training programmes.

## II. Research and development activities

The research activities of the NSPHMPDB were conducted in accordance with the research and development programme for the year 2014. Thus, there were six on-going projects, of which four programmes externally financed by the European Commission:

- EUnetHTA JA2 (DG SANTE) 2012-2015
- PaSQ (DG SANTE) 2012-2015
- ALICE RAP (FP7) 2011-2015
- CEPHOS-LINK (FP7) 2015-2017

A project is financed by the Structural Funds - EFIACCES POSDRU/125/5.1/S/127671.

The main objectives, related to research and development for 2014, were: integration into international research networks, professional performance increase and diversification of services.

The objectives of 2014 on research & development were attained by:

- The work undertaken under the European network for health technology assessment (EUnetHTA) and the European union network for patient safety and quality of care (PaSQ);
- Developing the institutional capacity in the area of health technology assessment in order to diversify the activities of the NSPHMPDB;
- Developing institutional capacity in the field of patient safety to diversify the activities of the NSPHMPDB;
- Increasing professional performance through further research in areas where there is prior experience (substance use, mental health, community health care).

### **"European Network for Health Technology Assessment - Joint Action 2" (EUnetHTA JA2)**

Source of funding: European Commission - DG SANTE and own sources

Project duration: 2012-2015

Partners: The project EUnetHTA JA 2 is implemented by a consortium which includes 51 partners from 30 countries (28 EU Member States, Norway and Switzerland), coordinated by the National Board of Health in Denmark. Besides partners EUnetHTA network has 18 associate members who participate in scientific activities of the network without receiving funds under the project. Network website: <http://www.eunetha.eu/>

The project aims to implement effective and sustainable collaboration in the field of health technology assessment in which to achieve added value at European, national and regional level.

The current collaboration is a continuation of the previous project EUnetHTA Joint Action 1 (2010-2012) in which specific tools for the health technology assessment process have been developed. The present Project reinforces these instruments through the delivery of a transnational collaboration between members of the network, which will produce three HTA reports, using the standardized model developed in Phase 1 of the project ("HTA Core Model") and then reverse, network members adapt and apply the model to existing local conditions.

The strategic objectives of EUnetHTA JA2 are:

- Improving the use of health technology assessment instruments through an international collaboration approach in HTA
- Strengthening and improving the collaboration within EUnetHTA, so to lead to a better understanding (from the EC and Member States) of the methods of establishing a stable structure in HTA in the European Union
- Develop a comprehensive strategy to contain principles and proposals for implementing sustainable cooperation at European level in accordance with provisions of Article 15 of the EC Directive on cross-border collaboration.



NSPHMPDB participates in this project in three working packages: training and dissemination (2), the production of HTA reports by cross-border cooperation (4) and improvement of the model used in the production of HTA reports (8). The work undertaken in 2014 is shown on each working package.

In the working package on training and dissemination activities (WP 2), the following activities were carried out:

- Improvement of the training programmes on the use of EUnetHTA tools and methods in health technology assessment, namely the employee training programme in the partner institutions in the project, and the stakeholders training programme (producers of medical technology, health care providers, funders, patient associations, etc.). The

programmes were developed in the first year of the project, and were conducted by 2 training sessions each. Analysis of each training session, conducted on the basis of evaluation forms completed by course participants, outlining the changes needed for each programme and organization were adopted before each session. NSPHMPDB experts participated in two training sessions for employees of partner institutions;

- Review of training strategy. The training Strategy, including both the training of employees in the partner institutions, and the training of stakeholders, were revised based on the feedback obtained after the completion of the training sessions, but also on discussions between project partners and interested institutions;
- Developing specific distance learning materials: webcasts, slide casts, virtual classroom. These are to be completed, tested and used in 2015;
- Review of communication strategy. The strategy, that include both, communication within and outside the project, was developed in the first year of the project is subject to continuous review process to ensure its relevance and to respond to changes in the external environment;
- Dissemination of project results. This process concerns both external dissemination through participation in actions to publicize the existence and results and exchange of information among project partners. In the latter goal a virtual meeting space was achieved – the Community of those who develop HTA reports. Regarding external dissemination, NSPHMPDB published in an interview with Børlum Finn Kristensen - President of EUnetHTA Network, in the journal Management in Health.

The activities of the Working Package on production, testing HTA reports by cross-border cooperation (WP 4) were:

- Selection of the second technology to assess and the development of the HTA report. The theme was "The use of intravenous immunoglobulin in the treatment of Alzheimer's disease";
- Choice of subject and initiation of the third HTA report - "Telemonitoring of patients with chronic cardiovascular diseases";
- Development of the national HTA report. As planned in the project, until its completion, will be delivered 40 HTA reports developed at national level. These are adaptations of the reports produced at European level to the specific countries. NSPHMPDB chose to adapt to Romania report on "Fecal immunochemical (FIT) vs. occult blood (FOBT) testing in colorectal cancer screening." In 2014 the documentation phase was initiated with a report to be completed in 2015.

In the working package on improving the basic model used in the production of HTA reports (WP 8), during 2014, activities initiated in the first year have continued, namely:

- Internal and public consultation regarding the improvement of the basic model for health technology assessment (HTA Core Model);
- Changing the basic model for health technology assessment;
- Testing and updating the online application to use the basic model;
- Development of a policy of awarding business licenses;
- Identification of ways to support the development of national HTA reports.



NSPHMPDB's participation in this project contributed to the development of new skills and expertise in an area which is very topical at European level, namely health technology assessment. Under Article 15 of the EC Directive on cross-border healthcare in each EU Member State will have to operate an agency in health technology assessment, and these institutions will need to cooperate and to exchange information in an European network. The EUnetHTA network of which NSPHMPDB is part contributes to the implementation of this Article. As a result of involvement in this project, the School is developing a training programme in health technology assessment and use of EUnetHTA instruments. Also the School provides technical advice in this area to the Ministry of Health.

### **"Joint Action for Patient Safety and Quality of Care" (PaSQ)**

Funding Source: European Commission - DG SANCO and its own sources

Duration of project: 2012-2015

Partners: The project is implemented by a consortium that includes 44 health care organizations in 39 countries (28 EU Member States and Norway), namely the organization responsible for the quality of medical services. NSPHMPDB represents Romania in this partnership. The project coordinator is the Haute Autorité de Santé (HAS). Network website:

<http://www.pasq.eu/>

The project aims to organize platforms for promoting patient safety and quality in healthcare in all European countries, by exchanging information, experiences and implementing best practices in patient safety and quality in health.

The overall objective is to contribute to improving patient safety and quality of care by supporting the implementation of the EC Recommendation on patient safety through cooperation between Member States, EU and international organizations on issues related to quality and patient safety. This will be done through the dissemination of knowledge, experiences and best practices, and will explore their transferability between countries, with the support of the European Commission and other relevant organizations.

The specific objectives are:

- Creation of a mechanism for the exchange of good clinical practices (SCP - safety clinical practices) in the field of patient safety and quality and management strategies at health organizations level (GOP - good operational practices) in the Member States;
- Creation of a web platform to facilitate the exchange of SCP and GOP;
- Implementation of good safety and quality practices in member countries (feasibility criteria, transferability, patient involvement, etc.);
- Collection of information on the impact of the implementation of good practices of quality and safety;
- Improving the mechanism for cooperation and exchange of good practices.

Activities During 2014, the work packages involving NSPHMPDB were:

- Development of the Glossary of terms;
- Development of the questionnaires for gathering data on good clinical practices, quality management systems and the exchange of best practices for project sustainability;
- Collection of good clinical practice in Romania and best practices on quality management systems and uploading them to project web-site;
- Validation of completed questionnaires;



- Revision of literature on best clinical practice;
- Organization of a workshop in Romania, with international participation on "Best practices in patient safety and quality improvement", aimed at raising awareness and informing healthcare decision makers and clinicians on the need to introduce safety practices in the patient's clinical work and in the organization and management of medical services, as required by EU Council Recommendation on patient safety and control of healthcare associated infections;
- Experience exchange by the participation of School experts to the international seminar "Reporting and learning systems - to increase patient safety", organized in Italy;
- Experience exchange by the participation of School experts to the international seminar "Patient safety culture", organized in Croatia.

This project has also contributed to the development of new capacity, leading to the accumulation of new theoretical and practical knowledge on patient safety and quality of care. This new expertise will be used both in the training by completing and updating existing modules and in consultancy work and technical assistance.

**"Addictions and Lifestyles in contemporary Europe - reframing addictions project"  
(ALICE RAP)**

Source of funding: European Commission - FP7

The project period: 2011 – 2015

Partners: The project is run by a consortium of 42 partner institutions, but has a much larger number of participants, the project intends to address the issue at the EU level and is divided into seven themes and 21 working groups. NSPHMPDB is participating in this project, based on a sub-contract with Clinical Foundation for Biomedical Research of Barcelona, within working package 5 of the project, having the responsibility to collect and process information available regarding the prevalence of and dependence on alcohol, tobacco, illegal drugs, and gambling to estimate addictions nationwide. Project website: <http://www.alicerap.eu/>

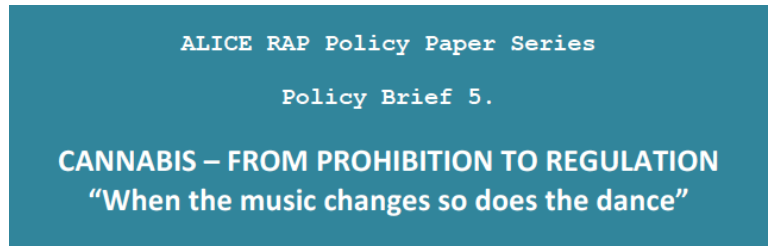
The project aims to provide scientific evidence that stimulate dialogue among civil society and decision-makers and lead to productive discussions on current and alternative modes of dependency approach.

The objectives are:

- Providing an epidemiological overview of the addictions related to alcohol, tobacco, illegal drugs and gambling for different countries;



- Estimation of the prevalence of dependence at national level, by sex and age;
- Determining the prevalence of the abuse and harmful use;
- Estimating the mortality, years of life lost and the burden of disease, attributable to addiction and substance use, by country, gender and age.



The activities carried out under this project in 2014 were:

- Participation in the development and revision of the report entitled "Prevalence of substance use, addiction and gambling problem in Europe";
- Participation in the development and revision of the paper entitled "Cannabis - from prohibition to regulation / When the music changes, the dance changes too" from the "Policy papers" series of the project;
- Development of a questionnaire for the purposes of comparing subsequent substance use.

Involvement in this project is a result of the expertise of NSPHMPDB obtained by previous participation in similar projects. Through this project data were updated and completed and analyses were made in order to complete the existing information in the field of project study. The data collected in this project will be used for further analysis that will complement existing knowledge and the results can be used to develop recommendations on future policy guidance in this area.

**"Comparative Effectiveness Research on Psychiatric Hospitalization by Administrative Record Linkage of large date Sets" (CEPHOS-LINK)**

Source of funding: European Commission and own sources - FP7

The project period: 2013 - 2016

Partners: Consortium consisting of seven partners from six European countries (Finland, Austria, Romania, Norway, Italy, Slovenia) under the coordination of the National Institute for Health and Welfare in Finland.

The project aims to reduce readmissions and to support continuity of care after discharge for patients with psychiatric disorders.

The overall objective of the project is to compare different types of health services in terms of the differences between the results recorded among readmission to hospital, for discharged adults with psychiatric diagnoses and to identify factors related to the patient, medical service or health system that affect patterns of rehospitalisation. This will be achieved through comparative analysis of data from six European countries on daily practice, thus improving knowledge and developing tools to support decision making in the field of mental health.

Specific objectives:

- Comparison in rehospitalisation outcomes in adult patients discharged with a primary or secondary psychiatric diagnosis, in two different hospitals, from six European countries through an observational study, in terms of treatment:
  - treatment of patients in a hospital/psychiatric ward
  - treatment of patients in a non-psychiatric hospital/ward,
 and identification of specific factors at the patient level, medical service and system related to readmissions to hospital, within a period of 18 months,
- Comparison of the results of patients discharged with a primary or secondary psychiatric diagnosis from a psychiatric ward/hospital in six European countries, which had two different types of interventions after discharge:
  - taken over, after discharge, by ambulatory psychiatric services;
  - lack of specialized care after discharge,
 and identification of the influence of these different post-discharge interventions and of other factors related to readmissions within a period of 18 months,
- Development of a toolkit for making such registration studies in mental health within and between European countries in order to improve evaluation of mental health services in Europe,
- Development of recommendations, practice guidelines and a toolkit for policy makers for mental health in order to improve our understanding of the factors influencing patients' psychiatric rehospitalisation.



In 2014 NSPHMPDB participated in the following activities:

- Collection and analysis of data on readmission rate of patients with psychiatric diseases and identification of factors related to patient health service or system that influence the rate of rehospitalisation;
- Development of the Country Report for Romania;
- Preparations for carrying out two systematic reviews of literature: one on the effect on continuity of care and another one on the influence of post-discharge variables on the psychiatric readmission rate.

Experts involved in the project also participated in a course in which they were presented methods of data analysis and modelling methods, focusing on the possibility of interrelation of health databases. Thus, this project may be included among those projects which have the collateral effect of developing new skills and expertise. Also, by obtaining information on the practice of psychiatry and analysing services in the context of other factors and comparing them to other countries, we will develop a set of recommendations, guides and tools that can support decision making on improvement of the psychiatric services.

***"EFIACCES" - project funded by Human Resources Development Operational Programme 2007 - 2013 European Social Fund***

The project period: 2014 – 2015

Partners: The project is run by the Association for socio-economic development and promotion CATALACTICA in partnership with NSPHMPDB, the County Agency for the Workforce Caraş-Severin and County Agency for the Workforce Mureş. Project website: <http://www.efiacces.ro/>

The project aims to create opportunities that contribute to the growth of employment and human resources while increasing the population coverage with community health services. The overall objective of the project is providing integrated services for matching and implementation of professional experience and personal skills to the current requirements and socio-economic context.

For this, the project has to achieve two objectives:

- Providing a specialized programme for active employment measures for 980 unemployed nurses, consisting of motivation activities, developing self-confidence and self-personality assessment, information services on the evolution of occupations in health services, customized professional counselling;

- Providing a training programme to strengthen the set of general and specific skills and to develop practical skills in the area of community healthcare for 900 unemployed persons.

The project was launched through a conference in July 2014. The activities until December of 2014 were:

- Developing the Operational Plan and the Methodology for Organisation and Implementation of the Continuous Professional Training Programme;
- Developing Practice Guidelines for community nurses;
- Conceptual development of the Trainer Manual and the Student Manual and elaboration of corresponding manuals for each of the 7 modules of the training programme;



EFIACCES project is a continuation of the project “Promoting social inclusion by developing human and institutional resources in community health care” ID 18786, conducted during 2009-2012, with funding from the same European Social Fund Operational Programme on Human Resources Development. The success of the previous project led to the proposal of the second project, the training activities are not only replicated but are in a high proportion revised. On the one hand, course materials were radically restructured and updated. On the other hand, following completion of the training programme the occupational standards for the profession of community nurse, developed and introduced in the classification of occupations in Romania by NSPHMPDB after the completion of the first project will be reviewed.

### III. Consultancy and technical assistance activities

Results of research and development carried out by NSPHMPDB are used, as we have shown, to develop new training programmes, but also in consultancy work and technical assistance to various partner institutions to increase health system performance.

The main objectives set in this direction for 2014 were: improving the operation of the collection and reporting of DRG data and conducting studies and analysis to support the growth of health system performance.

Objectives of 2014 related to consultancy and technical assistance work were:

- Introduction of automated import into the database of the minimum data set at the patient level provided by hospitals, using a login portal available on the [www.drg.ro](http://www.drg.ro) site
- Updating the DRG National application;
- Introducing a system of data validation of the data submitted by hospitals related to activities done in day hospitalization.

#### *Activities in the DRG area*

Under the current legislation, NSPHMPDB, through the **Centre for Research and Evaluation of Health Services** receives reports of all hospitals in Romania in a contractual relationship with the National Health Insurance and manages the National DRG database. To this end, NSPHMPDB concludes annual contracts with National Health Insurance House (NHIH) under which it implements annually the following activities: gathering and validating of data on discharged patients, patient classification, evaluation of hospitals activity and performance, evaluation of the quality of care, monitoring compliance with quality of collected data and proposals for tariff calculation methodology.

The contract with NHIH includes a set of studies and analyses based on which NSPHMPDB makes proposals to develop patient classification systems and costing methodologies, participates in developing methods for adjusting the financing of health units, management performance evaluation criteria and benchmarking tools.

The activity on DRG is presented on a dedicated website: <http://www.drg.ro/>

In 2014, based on the research and analysis carried out, improvements were made in the functioning of DRG data collection and reporting system by introducing an automated import into the database of the minimum data set at the patient level provided by hospitals, using a login portal available on the www.drg.ro site and by updating the application DRG National.



The update consisted in changing the data collection interface for

continuous and day hospitalization, according to the successive amendments to the minimum data set for continued and day hospitalization, changes made by the Minister of Health and President of the National Public Health Insurance Order no. 1782/576/2006 regarding the registration and statistical reporting of patients receiving medical services for continued hospitalization and day care. Also in the light of research and analysis performed, a system of validating data submitted by hospitals for the work done in day hospitalization was introduced in 2014. The validation system was introduced in June, it was verified in June and July, and currently an analysis of clinical activity of hospitals and how coding and data transmission of the minimum set of data at the patient level in day hospitalization is done, is effectuated together with the National Health Insurance House and the Ministry of Health, with the purpose to adjust validation rules.

Studies and analyses carried out on DRG envisaged, as usual, the identification of critical issues and methods of financing of work done in the hospitals in Romania, and monitoring and evaluation of health services provided by hospitals to ensure the technical support necessary to streamline monitoring and control activity. Thus, there have been made a number of proposals aimed at increasing the performance of service providers after performing, among others, the following analyses:

- Analysis of patients reported as emergency according to criteria of admission and pathology;
- Analysis of the "Top 50 hospitals that had the highest proportion of expensive DRGs out of the total discharges reported and validated";
- Analysis of reporting and coding errors that signals problems related to settlement;

- Analysis of the first 10 surgical procedures that generate the biggest differences in the classification of the cases, in terms of weighted cases;
- Analysis of the 20 most common types of cases and services reported in day hospitalization;
- Comparative analysis of cases reported on day and continuous hospitalization for pathologies and procedures suitable for day hospitalization (according to Annex 22 of the Implementation Norms of the Framework Contract).

***Other consultancy and technical assistance activities done in 2014:***

- Analysis of hospital morbidity for anti-pneumonia, anti-rotavirus, HPV vaccine preventable diseases and the pathology related to benign prostatic hyperplasia (BPH), reported under continuous hospitalization in the years 2010, 2011, 2012 - SC GlaxoSmithKline SRL;
- Calculating the incidence and distribution of intestinal and musculoskeletal disorders reported under continuous hospitalization in the years 2011, 2012, 2013 - Alfa Wassermann LLC;
- Evaluation of rubella and measles cases reported under continuous hospitalization in the years 2011, 2012 - WHO;
- Calculation of indicators for Statistical Yearbook - National Statistics Institute;
- Analysis and computing of Health Accounts indicators - National Statistics Institute;
- Analysis and calculation of some hospital indicators for "Hospitals Purchasing Power Parity (PPP) Survey" done by OECD and the European Commission - National Statistics Institute;
- Analysis and calculation of indicators for the paper "Joint Data Collection on Non-Monetary Health Care Statistics" conducted by OECD, Eurostat and WHO Europe - National Statistics Institute;
- Collection and verification of data on tobacco for Romania to be included in international survey "Global Youth Tobacco Survey GYTS" of the World Health Organization - Institute "Marius Nasta";
- Participation in the Technical Working Group to reform community healthcare services under the National Health Strategy 2014-2020 - Ministry of Health.

## IV. Dissemination of research results

NSPHMPDB role in the formation and development of health personnel is not limited to training programmes. The results of research, studies and projects undertaken by NSPHMPDB reach health professionals through publications and communications in various scientific events. Thus, through research projects, NSPHMPDB makes an important contribution to the dissemination of information on new concepts, methodologies and developments in its area of expertise, both resulting from research, studies and projects themselves and from other sources.

Among the NSPHMPDB objectives for 2014 were: to increase the visibility of NSPHMPDB scientific results and to increase NSPHMPDB eligibility for R & D projects.

Objectives of 2014 regarding the dissemination of research results have been achieved through:

- Publication of 24 articles in journals indexed in international databases, of which 22 articles published in journals with impact factor;
- Six presentations at international events, five presentations at national events;
- Seven systematic reviews of literature;
- A workshop organized within the project PaSQ;
- 33 articles (of which 2 had co-authors from SNSPMPDSB) and 4 interviews published in the School's own "Management in Health" journal.

An own source of dissemination is the "Management in Health" quarterly journal, a bilingual scientific quarterly publication (<http://journal.managementinhealth.com>). The journal qualified in 2010 for the category B + journals according to the scores set by the National Council of Scientific Research in Higher Education and, meanwhile, has been included in five international databases: Google Scholar, Index Copernicus, DOAJ (Directory Journals of Open Access), Scopus and Elsevier. Since 2011, the journal is being evaluated ISI Thompson. The journal is also credited by the College of Physicians in Romania with 5 points.



The 4 numbers published during 2014 contained 33 articles and four interviews. Two articles had authors or co-authors from the School, 20 articles had authors from abroad, and interviews were taken to personalities in health management such as: Zsuzsanna Jakab - WHO Regional Director for Europe, Radu Deac - Executive Director of the National Agency of Transplant, Dana Elena Burduja - President of the International Forum of patient Classification System, and Børlum Finn Kristensen - President of EUnetHTA Network

The results of the scientific work carried out by the National School of Public Health, Management and Professional Development in 2014 were disseminated through (see Annexes 1, 2 and 3):

- 24 articles published in journals indexed in international databases, of which 22 articles published in journals with impact factor;
- Six presentations at international events, five presentations at national events;
- Seven systematic reviews of literature;
- One workshop organized within the project PaSQ;



## **V. Management and institutional development**

The Development Strategy of the National School of Public Health Management and Professional Development has among its objectives organizational development and training, and optimization of management, organization and operation of the School. For 2014 the main objectives established under the strategic direction regarding organizational development were: improving internal management control, increasing resource efficiency and increased professional performance of NSPHMPDB.

The objectives of 2014 on organizational development and training have been achieved by:

- Completing the set of procedures and documents related to internal management control;
- Reorganization and clear delineation of staff responsibilities;
- Measures to reduce costs;
- Training and human resource development through participation in training programmes.

### ***Improving the internal management control***

In 2014 the process of improving the internal management control system in the institution continued, by developing 11 new system procedures, 9 new operational procedures and revisions of the Risk Register. There have also been developed: Regulation on internal self-control systems of NSPHMPDB, Rules of organization and functioning of the Commission of monitoring, coordination and methodological guidance to develop the internal management control system of NSPHMPDB and The managerial control strategy.

Also there have been revised the compenence of the Commission for the implementation and development of the internal control system (Decision no. 204/12.12.2012, modified by Decision no. 96/07.07.2014) and the Committee for health and security in work (Decision no. 25/03.03.2014, modified by Decision no. 61/21.05.2014).

### ***Increasing the efficiency in resource utilisation***

In order to streamline the use of resources both aspects of human resource use and the use of financial and material resources were taken into account.

For a better use of human resources there was made a delimitation of functional compartments within the existing centres of NSPHMPDB, without leading position, just to reflect clearly the responsibilities and to define their correspondence to specific of activities of each centre. Thus:

- Management and Health Promotion Centre includes in its structure:
  - Compartment of Health Promotion,
  - Training Programme Management Unit, and
  - Community Healthcare Management Unit.
- Centre for Research and Evaluation of Health Services includes in its structure:
  - Compartment of Hospital Services Evaluation, and
  - Research and Development in Health Office.
- National Centre for Professional Development in Health includes in its structure:
  - Nursing Professional Development Compartment.

Each compartment has established specific duties and responsibilities and related personnel have appropriate responsibilities in their job description.

In order to streamline costs, after the situation analyses, a series of measures to decrease costs have been taken (ex. repair and modernization works to reduce waste and, as a result, the expenditures for utilities).

Also, 5 persons from administrative support structures have benefited from courses in the following areas:

- Financial management and budget (2 persons);
- Public administration (1 person);
- Health and safety at work evaluation (2 persons).

### ***Increasing professional performance of staff from NSPHMPDB***

In order to develop and increase institutional capacity for research training and technical assistance, about 25 people attended various training programmes, thereby complementing existing expertise of the School in the fields of:

- Health technology assessment (3 persons trained in 2014 under the project EUnetHTA);
- Accessing European Structural and Cohesion Funds (16 people);
- Management of Projects funded by the European Structural and Cohesion Funds (17 people);
- Training of Trainers (6 persons).

Besides participating in classical training programmes some of the technical staff of NSPHMPDB was sustained in their professional development of new skills through "on the job training". Thus, in on-going projects, people from outside the project team were involved to develop institutional capacity in certain areas (ex. EUnetHTA project). In order to increase the numbers of lecturers on specific training programmes, for each module of the programmes provided by NSPHMPDB additional persons who may be involved in teaching, were identified.

The most important feature of NSPHMPDB's activity remained during 2014 integrating research, training, and technical advice or assistance by translating the results of research projects into training programmes and technical assistance activities, adapting training programmes to the realities and the needs of the Romanian system and developing them so as to have as much practical effect as possible, and in accordance with scientific advice and technical assistance activities to produce a positive impact on the health system in Romania.

## Appendixes

### Appendix 1. Publications in 2014

No crt	Title of publication	Authors	Journal	Impact factor ISI/SSC I	Other categories CNCSIS/ BDI
<b>Published articles</b>					
1	Associations between DSM-IV mental disorders and diabetes mellitus: a role for impulse control disorders and depression.	de Jonge, P., Alonso, J., Stein, D.J., Kiejna, A., Aguilar-Gaxiola, S., Viana, M.C., Liu, Z., O'Neill, S., Bruffaerts, R., Caldas-de-Almeida, J.M., Lepine, J.P., Matschinger, H., Levinson, D., de Girolamo, G., Fukao, A., Bunting, B., Haro, J.M., Posada-Villa, J.A., Al-Hamzawi, A.O., Medina-Mora, M.E., Piazza, M., Hu, C., Sasu, C., Lim, C.C., Kessler, R.C., Scott, K.M. (2014).	<i>Diabetologia</i> . 2014 Apr;57(4):699-709. doi: 10.1007/s00125-013-3157-9. Epub 2014 Feb 2. <a href="http://www.ncbi.nlm.nih.gov/pubmed/24488082">http://www.ncbi.nlm.nih.gov/pubmed/24488082</a>	6.88	
2	The effects of comorbidity in defining major depression subtypes associated with long-term course and severity.	Wardenaar, K.J., van Loo, H.M., T. Cai, T., Fava, M., Gruber, M.J., Li, J., de Jonge, P., Nierenberg, A.A., Petukhova, M.V. Rose, S., Sampson, N.A., Schoevers, R.A., Wilcox, M.A., Alonso, J., Bromet E.J., Bunting, B., Florescu, S., Fukao, A., Gureje, O., Hu, C., Huang, Y.Q., Karam, A.N., Levinson, D., Medina Mora, M.E., Posada-Villa, J., Scott, K.M., Taib, N.I., Viana, M.C., Xavier, M., Zarkov, Z., Kessler, R.C.	<i>Psychological Medicine</i> . 2014 Nov; 44(15):3289-302. doi: 10.1017/S0033291714000993. Epub 2014 Jul 17. <a href="http://www.researchgate.net/journal/1469-8978_Psychological_Medicine">http://www.researchgate.net/journal/1469-8978_Psychological_Medicine</a>	5.59	
3	Cumulative traumas and risk thresholds: 12-month PTSD in the World Mental Health (WMH) Surveys.	Karam, E.G., Friedman, M.J., Hill, E.D., Kessler, R.C., McLaughlin, K.A., Petukhova, M., Sampson, L., Shahly, V., Angermeyer, M.C., Bromet, E.J., de	<i>Depression and Anxiety</i> . 2014 Feb;31(2):130-42. doi: 10.1002/da.22169. Epub 2013 Aug 27.	4.288	

		Girolamo, G., de Graaf, R., Demyttenaere, K., Ferry, F., Florescu, S., Haro, J.M., He, Y., Karam, A.N., Kawakami, N., Kovess-Masfety, V., Medina-Mora, M.E., Oakley Browne, M.A., Posada-Villa, J.A., Shalev, A.Y., Stein, D.J., Viana, M.C., Zarkov, Z., Koenen, K.C.	<a href="http://www.ncbi.nlm.nih.gov/pubmed/23983056">http://www.ncbi.nlm.nih.gov/pubmed/23983056</a>		
4	Under-reporting bipolar disorder in large-scale epidemiologic studies.	Karam, E.G., Sampson, N., Itani, L., Andrade, L.H., Borges, G., Chiu, W.T., Florescu, S., Horiguchi, I., Zarkov, Z., Akiskal, H.	<i>Journal of Affective Disorders</i> . 2014 Apr;159:147-54. doi: 10.1016/j.jad.2014.01.011. Epub 2014 Jan 28. Volume 159, 20 April 2014, Pages 147–154 <a href="http://www.ncbi.nlm.nih.gov/pubmed/24679403">http://www.ncbi.nlm.nih.gov/pubmed/24679403</a>	3.705	
5	A comparative analysis of role attainment and impairment in binge-eating disorder and bulimia nervosa: results from the WHO World Mental Health Surveys.	Kessler, R.C., Shahly, V., Hudson, J.I., Supina, D., Berglund, P.A., Chiu, W.T., Gruber, M., Aguilar-Gaxiola, S., Alonso, J., Andrade, L.H., Benjet, C., Bruffaerts, R., de Girolamo, G., de Graaf, R., Florescu, S., Haro, J.M., Murphy, S.D., Posada-Villa, J., Scott, K., Xavier, M.	<i>Epidemiology and Psychiatric Sciences</i> . 2014 Mar;23(1):27-41. doi: 10.1017/S2045796013000516. Epub 2013 Sep 23. <a href="http://www.ncbi.nlm.nih.gov/pubmed/24054053">http://www.ncbi.nlm.nih.gov/pubmed/24054053</a>	3.362	
6	Are there gender differences in service use for mental disorders across countries in the European Union? Results from the EU-World Mental Health survey.	Kovess-Masfety V, Boyd A, van de Velde S, de Graaf R, Vilagut G, Haro JM, Florescu S, O'Neill S, Weinberg L, Alonso J; EU-WMH investigators.	<i>Journal of Epidemiology and Community Health</i> 2014 Jul; 68(7):649-56. doi: 10.1136/jech-2013-202962. Epub 2014 Mar 10. <a href="http://www.ncbi.nlm.nih.gov/pubmed/24616352">http://www.ncbi.nlm.nih.gov/pubmed/24616352</a>	3.294	
7	Association	Jordi Alonso, Peter de	<i>Journal of</i>	3.277	

	between mental disorders and subsequent adult onset asthma	Jonge, Carmen C.W. Lim, Sergio Aguilar-Gaxiola, Ronny Bruffaerts, Jose Miguel Caldas-de-Almeida, Zhaorui Liu, Siobhan O'Neill, Dan J. Stein, Maria Carmen Viana, Ali Obaid Al-Hamzawi, Matthias C. Angermeyer, Guilherme Borges, Marius Ciutan, de Girolamo G., Fiestas F., Haro J.M., Hu C., Kessler R.C., Lépine J.P., Levinson D., Nakamura Y., Posada-Villa J., Wojtyniak B.J., Scott K.M.	<i>Psychiatric Research</i> 2014 Dec;59:179-88. doi: 10.1016/j.jpsychires.2014.09.007. Epub 2014 Sep 16. <a href="http://www.journalofpsychiatricresearch.com/article/S0022-3956(14)00274-X/pdf">http://www.journalofpsychiatricresearch.com/article/S0022-3956(14)00274-X/pdf</a>		
8	New psychoactive substances and illicit drugs used among 16-yrs-old high school students in Romania	Oprea, S., Visan M., G., Iliescu R., Florescu S., Nitescu V.	<i>Journal of Toxicology - Clinical Toxicology</i> 2014, 52: 295–443 <a href="http://informahealthcare.com/doi/abs/10.3109/15563650.2014.906213?src=recsys">http://informahealthcare.com/doi/abs/10.3109/15563650.2014.906213?src=recsys</a>	3.12	
9	Associations between mental disorders and subsequent onset of hypertension.	Stein, D.J., Aguilar-Gaxiola, S., Alonso, J., Bruffaerts, R., de Jonge, P., Liu, Z., Caldas-de-Almeida, J.M., O'Neill, S., Viana, M.C., Al-Hamzawi, A.O., Angermeyer, M.C., Benjet, C., de Graaf, R., Ferry, F., Kovess-Masfety, V., Levinson, D., de Girolamo, G., Florescu, S., Hu, C., Kawakami, N., Haro, J.M., Piazza, M., Wojtyniak, B.J., Xavier, M., Lim, C.C.W., Kessler, R.C., Scott, K.	<i>General Hospital Psychiatry</i> . 2014 Mar-Apr;36(2):142-9. doi: 10.1016/j.genhosp psych.2013.11.002 . Epub 2013 Nov 14. <a href="http://www.ncbi.nlm.nih.gov/pubmed/24342112">http://www.ncbi.nlm.nih.gov/pubmed/24342112</a>	2.67	
10	Trauma and Posttraumatic Stress Disorder in Romania	S. Florescu, C. Mihaescu-Pinția, M. Ciutan, C. Sasu, M. Gălăon	<i>European Journal Public Health Supplement</i> (2014) 24 (suppl 2): DOI: <a href="http://dx.doi.org/1">http://dx.doi.org/1</a>	2.459	

			<a href="https://doi.org/10.1093/eurpub/cku166.158">0.1093/eurpub/cku166.158</a>		
11	Gender and age inequalities in mental health of Romanian working adults	S. Florescu, M. Ciutan, C. Sasu, M. Gălăon, C. Mihaescu-Pinția	<i>European Journal Public Health Supplement</i> (2014) 24 (suppl 2): DOI: <a href="http://dx.doi.org/10.1093/eurpub/cku166.056">http://dx.doi.org/10.1093/eurpub/cku166.056</a>	2.459	
12	Alcohol and violence in teenagers: an epidemiological analysis using European data	A. Steriu, C. Sasu, M. Gălăon, S. Florescu	<i>European Journal Public Health Supplement</i> (2014) 24 (suppl 2): DOI: <a href="http://dx.doi.org/10.1093/eurpub/cku164.112">http://dx.doi.org/10.1093/eurpub/cku164.112</a>	2.459	
13	Alcohol abuse in developed and developing countries in the World Mental Health surveys: socially defined consequences or psychiatric disorder?	Glantz, M.D., Medina-Mora, M.E., Petukhova, M., Andrade, L.H., Anthony, J.C., de Girolamo, G., de Graaf, R., Degenhardt, L., Demyttenaere, K., Florescu, S., Gureje, O., Haro, J.M., Horiguchik, I., Karam, E.G., Kostyuchenko, S., Lee, S., Lépine, J.-P., Matschinger, H., Neumark, Y., Posada-Villa, J., Sagar, R., Stein, D.J., Tomov, T., Wells, J.E., Chatterji, S., Kessler, R.C.	<i>The American Journal on Addictions</i> , 2014. 23 (2): 145-155. <a href="http://onlinelibrary.wiley.com/doi/10.1111/j.1521-0391.2013.12082.x/abstract">http://onlinelibrary.wiley.com/doi/10.1111/j.1521-0391.2013.12082.x/abstract</a>	1.638	
14	The package of basic health services - problem analysis and policy recommendations	Vasile Cepoi, Cristian Vlădescu	<i>Management in Health</i> XVIII/ 2/ 2014: pg. 7-16		B+ Scopus Elsevier Index Copernicus Google Scholar DOAJ
15	Interest of Romanian users for medical sites	Vasilica Constantinescu	<i>Management in Health</i> XVIII/ 2/ 2014: pg. 25-29		B+ Scopus Elsevier Index Copernicus Google



					Scholar DOAJ
<b>Articles published on line</b>					
16	How well can post-traumatic stress disorder be predicted from pre-trauma risk factors? An exploratory study in the WHO World Mental Health Surveys.	Kessler, R.C., Rose, S., Koenen, K.C., Karam, E.G., Stang, P.D., Stein, D.J., Heeringa, S.G., Hill, E.D., Liberzon, I., McLaughlin, K.A., McLean, S.A., Pennell, B.E., Petukhova, M., Rosellini, A.J., Ruscio, A.M., Shahly, V., Shalev, A.Y., Silove, D., van Ommeren, M., Zaslavsky, A.M., Angermeyer, M.C., Bromet, E.J., Caldas de Almeida, J.M., de Girolamo, G., de Jonge, P., Demyttenaere, K., Florescu, S., Gureje, O., Haro, J.M., Hinkov, H., Kawakami, N., Kovess-Masfety, V., Lee, S., Medina-Mora, M.E., Murphy, S.D., Navarro-Mateu, F., Piazza, M., Posada-Villa, J., Scott, K., Torres, Y., Viana, M.C.	<i>World Psychiatry</i> 13(3): 265-74. <a href="http://www.ncbi.nlm.nih.gov/pubmed/25273300">http://www.ncbi.nlm.nih.gov/pubmed/25273300</a>	12.846	
17	Subthreshold Posttraumatic Stress Disorder in the World Health Organization World Mental Health Surveys.	McLaughlin, K.A., Koenen, K.C., Friedman, M.J., Ruscio, A.M., Karam, E.G., Shahly, V., Stein, D.J., Hill, E.D., Petukhova, M., Alonso, J., Andrade, L.H., Angermeyer, M.C., Borges, G., de Girolamo, G., de Graaf, R., Demyttenaere, K., Florescu, S., Mladenova, M., Posada-Villa, J., Scott, K.M., Takeshima, T., Kessler, R.C.	<i>Biological Psychiatry</i> <a href="http://www.journals.elsevier.com/biological-psychiatry/">http://www.journals.elsevier.com/biological-psychiatry/</a>	9.472	
18	Barriers to mental health treatment: results from the WHO World Mental Health (WMH) Surveys.	Andrade, L.H., Alonso, J., Mneimneh, Z., Wells, J.E., Al-Hamzawi, A., Borges, G., Bromet, E., Bruffaerts, R., de Girolamo, G., de Graaf,	<i>Psychological Medicine</i> <a href="http://www.researchgate.net/journal/1469-8978_Psychologic">http://www.researchgate.net/journal/1469-8978_Psychologic</a>	5.59	

		R., Florescu, S., Gureje, O., Hinkov, H.R., Hu, C., Huang, Y., Hwang, I., Jin, R., Karam, E.G., Kovess-Masfety, V., Levinson, D., Matschinger, H., O'Neill, S., Posada-Villa, J., Sagar, R., Sampson, N.A., Sasu, C., Stein, D., Takeshima, T., Viana, M.C., Xavier, M., and Kessler, R.C.	<a href="#">al Medicine</a>		
19	DSM-5 and ICD-11 definitions of posttraumatic stress disorder: investigating "narrow" and "broad" approaches.	Stein, D.J., McLaughlin, K.A., Koenen, K.C., Atwoli, L., Friedman, M.J., Hill, E.D., Maercker, A., Petukhova, M., Shahly, V., van Ommeren, M., Alonso, J., Borges, G., de Girolamo, G., de Jonge, P., Demyttenaere, K., Florescu, S., Karam, E.G., Kawakami, N., Matschinger, H., Okoliyski, M., Posada-Villa, J., Scott, K.M., Viana, M.C., Kessler, R.C.	<i>Depression and Anxiety</i> , 31(6):494-505. (2014). <a href="http://www.ncbi.nlm.nih.gov/pubmed/24894802">http://www.ncbi.nlm.nih.gov/pubmed/24894802</a>	4.288	
20	Major depressive disorder subtypes to predict long-term course.	van Loo, H.M., Cai, T., Gruber, M.J., Li, J., de Jonge, P., Petukhova, M., Rose, S., Sampson, N.A., Schoevers, R.A., Wardenaar, K.J., Wilcox, M.A., Al-Hamzawi, A.O., Andrade, L.H., Bromet, E.J., Bunting, B., Fayyad, J., Florescu, S., Gureje, O., Hu, C., Huang, Y., Levinson, D., Medina-Mora, M.E., Nakane, Y., Posada-Villa, J., Scott, K.M., Xavier, M., Zarkov, Z., Kessler, R.C.	<i>Depression and Anxiety</i> , 31(9):765-77. <a href="http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291520-6394">http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291520-6394</a>	4.288	
21	The associations between pre-existing mental disorders and subsequent onset of chronic headaches:	Bruffaerts, R., Demyttenaere, K., Kessler, R.C., Tachimori, H., Bunting, B., Hu, C., Florescu, S., Haro, J.M., Lim, C.W., Kovess-	<i>The Journal of Pain</i> . 2014 Oct 22. pii: S1526-5900(14)00973-0. doi: 10.1016/j.jpain.20	4.216	

	A worldwide epidemiological perspective.	Masfety, V., Levinson, D., Medina Mora, M.E., Piazza, M., Piotrowski, P., Posada-Villa, J., Salih Khalaf, M., ten Have, M., Xavier, M., Scott, K.M.	14.10.002. [Epub ahead of print] <a href="http://www.ncbi.nlm.nih.gov/pubmed/25451620">http://www.ncbi.nlm.nih.gov/pubmed/25451620</a>		
22	Gender differences in mental disorders and suicidality in Europe: Results from a large cross-sectional population-based study	Boyd, A., Van de Velde, S., Vilagut, G., de Graaf, R., O'Neill, S., Florescu, S., Alonso, J., Kovess-Masfety, V.	<i>Journal of Affective Disorders</i> Volume 173, Pages 245–254, March 1, 2015 Published Online: November 08, 2014 DOI: <a href="http://dx.doi.org/10.1016/j.jad.2014.11.002">http://dx.doi.org/10.1016/j.jad.2014.11.002</a>	3.705	
23	Associations between DSM-IV mental disorders and subsequent self-reported diagnosis of cancer.	O'Neil, S., Posada-Villa, J., Medina-Mora, M.E., Al-Hamzawi, A.O., Piazza, M., Tachimori, H., Hu, Chiyi., Lim, C., Bruffaerts, R., Lepine, J-P., Matschinger, H., de Girolamo, G., de Jonge, P., Alonso, J., Caldas-de-Almeida, J.M., Florescu, S., Kiejna, A., Levinson, D., Kessler, R.C., Scott, K.M.	<i>Journal of Psychosomatic Research.</i> <a href="http://www.journals.elsevier.com/journal-of-psychosomatic-research/">http://www.journals.elsevier.com/journal-of-psychosomatic-research/</a>	2.839	
24	Proportion of patients without mental disorders being treated in mental health services worldwide.	Bruffaerts, R., Posada-Villa, J., Al-Hamzawi, A.O., Gureje, O., Huang, Y., Hu, C., Bromet, E.J., Viana, M.C., Hinkov, H.R., Karam, E.G., Borges, G., Florescu, S., Williams, D.R., Demyttenaere, K., Kovess-Masfety, V., Matschinger, H., Levinson, D., De Girolamo, G., Ono, Y., de Graaf, R., Oakley Browne, M., Bunting, B., Xavier, M., Haro, J.M., Kessler, R.C.	<i>British Journal of Psychiatry</i> 2015 Feb;206(2):101-9. doi: 10.1192/bjp.bp.113.141424. Epub 2014 Nov 13. <a href="http://www.ncbi.nlm.nih.gov/pubmed/25395690">http://www.ncbi.nlm.nih.gov/pubmed/25395690</a>	0.871	

## Appendix 2. Papers presented in 2014

### Presentations at international events

No. crt.	Title of paper	Authors	Event	Organizers	Date and place
1	Trauma and Posttraumatic Stress Disorder in Romania	<b>S.Florescu, C.Mihaescu-Pinția, M.Ciutan, C.Sasu, M.Gălăon</b>	17th European Public Health Conference „Mind the gap: reducing inequalities in health and health care”	EUPHA	19-22 November 2014 Glasgow
2	Gender and age inequalities in mental health of Romanian working adults	<b>S.Florescu, M.Ciutan, C.Sasu, M.Gălăon, C.Mihaescu-Pinția</b>	17th European Public Health Conference „Mind the gap: reducing inequalities in health and health care”	EUPHA	19-22 November 2014 Glasgow
3	Alcohol and violence in teenagers: an epidemiological analysis using European data	Steriu A., <b>Sasu C.C., Gălăon M., Florescu S.</b>	17th European Public Health Conference „Mind the gap: reducing inequalities in health and health care”	EUPHA	19-22 November 2014 Glasgow
4	New psychoactive substances and illicit drugs used among 16-years-old high school students in Romania	Oprea, S., Visan M., G., Iliescu R., <b>Florescu S.</b> , Nitescu V.	XXXIV International Congress of the European Association of Poisons Centres and Clinical Toxicologists	EAPCCT	27-30 May 2014, Bruxelles
5	The relevance of EBP from a policy/public health perspective	<b>Nona Chiriac, Silvia Gabriela Scîntee, Silvia Florescu, Marius Ciutan</b>	JBI European Group Convention	OAMGMAMR	17-19 May 2014 Bucharest
6	Best practices for improving patient safety and quality of care	<b>Vlădescu Cristian, Angheluță Carmen</b>	Workshop on „Best practices for improving patient safety and quality of care”	NSPHMPDB	27 March, 2014 Bucharest

### Presentations at national events

No. crt.	Title of paper	Authors	Event	Organizers	Date and place
1	Risk factors for cardiovascular diseases and preventive strategies in Romania vs. EU	Cristian Vlădescu	The 53 <sup>rd</sup> National Cardiology Congress	Romanian Society of Cardiology	2-4 October 2014 Sinaia
2	Smoking as a risk factor in cardiovascular diseases in Romania	Cristian Vlădescu	Intersectorial round table with national and international participation, on public policies on tobacco control in Romania	Pneumoftiziologie "Marius Nasta" Institute and European Network for Smoking Prevention (ENSP)	21-22 October 2014 Bucharest
3	The impact of tobacco on public health in Romania	Ciolompea Teodora	Intersectorial round table with national and international participation, on public policies on tobacco control in Romania	Pneumoftiziologie "Marius Nasta" Institute and European Network for Smoking Prevention (ENSP)	21-22 October 2014 Bucharest
4	„Romanian status on tobacco control, a brief review of studies regarding tobacco use in Romania”	Teodora Ciolompea	Workshop on „Building Capacity for Tobacco Research in Romania”	Fogarty International Centre	20-21 October 2014 Târgu Mureş
5	Evolution of DRG funding system in Romania in the last 10 years and equity issues in the current system of payment: price per weighted case, relative values, classification and funding formulas	Cristian Vlădescu	National Conference of Pharmaco-economy and Health Management – Increasing efficiency of health resource utilization in Romania and Central and Eastern Europe	University of Medicine and Pharmacy Târgu Mureş	19-22 November 2014 Târgu Mureş

**Appendix 3. Protocols and literature systematic reviews appraised by experts of the NSPHMPDB in the JBI collaboration in 2014**

	<b>Reviewer</b>	<b>Reviewed paper</b>	<b>Type of paper</b>	<b>Date of revision</b>
1	Nona Delia Chiriac	"The association between Point-of-Care testing of Troponin and the management of patients with chest pain suspected of acute coronary syndrome: a systematic review protocol"	[JBISRIR] Protocol for systematic review	2014-02-19
2	Teodora Ciolompea	"Health professionals' perceptions and experiences of open disclosure: a systematic review of qualitative evidence"	[JBISRIR] Systematic review	2014-03-20
3	Carmen Sasu	"The women's experience of menopause: a systematic review protocol of qualitative evidence"	[JBISRIR] Protocol for systematic review	2014-05-13
4	Ingrid Laura Firuleasa	"Diagnostic Accuracy of a Validated Screening Tool for Monitoring Nutritional Status in Patients with Colorectal Cancer: A Systematic Review"	[JBISRIR] Systematic review	2014-05-26
5	Mihaela Galaon	"All-cause 30-day postoperative mortality for older patients in highly developed countries having elective colorectal surgery: a systematic review"	[JBISRIR] Systematic review	2014-05-30
6	Silvia Gabriela Scintee	"Barriers and Motivators for physical activity in community dwelling adults: A comprehensive systematic review protocol,"	[JBISRIR] Protocol for systematic review	2014-08-01
7	Silvia Florescu	"The Experiences of Adults Living with an Implantable Cardioverter Defibrillator: A Systematic Review of Qualitative Evidence".	[JBISRIR] Protocol for systematic review	2014-12-11