CENTRE FOR RESEARCH IN APPLIED MEDICINE AND INTERVENTIONAL STRATEGIES IN MEDICAL PRACTICE

RESEARCH AREA
Centre for Research in applied medicine and interventional strategies in medical practice is based on a development strategy to ensure visualisation, interpretation and communication as a reference center that will scientifically, medically and logistically organize medical research, which is an imperious necessity as regards Romania’s integration with the European Programs for research and development and effective management for the public health sector with an immediate impact in significantly reducing the care, therapy and active monitoring costs, increasing the survival rate and the life quality for patients, creating new jobs and selectively training the employees for simultaneously achieving medical research and management desiderata.

GENERAL OBJECTIVES
To reach increasing of economic competitiveness by research, by new and modern therapeutic methods in a high level of activity performance in connection with European medical and research network, to develop modern therapies oriented to chemical, genetic and cellular support with implementation of new preventive, current therapeutic and interventional strategies in medicine. Development of knowledge in preventive or prophylactic domain to ensure both the frame needed to reduce health costs and the quality of life and human performance.

SPECIFIC OBJECTIVES
Centre for Research in applied medicine and interventional strategies in medical practice have specific objectives with strategic role in the priority area represented by health:  
O1. Start a Research Centre of high complexity non-invasive medical approach in diagnosis and treatment for training in conformity with European Community rules of all students, residents, masters and doctoral students  
O2. Development of sampling methods and technologies, and transmission of information from the patients, including ambulatory and telemedicine.  
O3. The development of modern diagnostic methods, interpretation and integration of data from the patients in the context of history and evolution personalized level.  

To achieve these objectives, including facilitating international cooperation for each of them, access to new research projects funded by regional, national or European (PN II the national or European Research Program FP7) will be promoted in parallel running to PN II type projects (Ideas and Partnerships) which enable European ongoing development of research infrastructure.

CLASSIFICATION IN THE SUB-PRIORITIES
• Development of modern therapies aimed to chemical, genetic and cellular support and their standardization according with bioethical rules.
• Implement new methods of prevention and interventional medicine at national level subordinated to European area of operation.

RESOURCES
Human resource of Centre for Research in applied medicine and interventional strategies in medical practice consists of teaching staff of the Department of medical and surgery disciplines, Faculty of Medicine, Transilvania University of Brasov, which ensure adequate funding based on a composite indicator of efficiency of research funds and increasing the competitiveness of the educational process, adapting the educational offer to the dynamics of work market by implementing mechanisms to promote and support excellence.

PRIORITY RESEARCH AREAS
The development of modern therapies targeted to chemical, genetic and cellular support and their standardization accordance with the bioethical rules, in order to create an applied research center that will be involved in creating programs for follow-up and therapy, for assessing the social and economic impact with a reduction of the existing gap both in the area of the fundamental research, and in the one of the clinical approach, between Universities and R-D institutes in Romania and the European Union.

<table>
<thead>
<tr>
<th>Humane Resources</th>
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<tbody>
<tr>
<td>Members</td>
<td>10</td>
</tr>
<tr>
<td>PhD Coordinators</td>
<td>3</td>
</tr>
<tr>
<td>PhD students</td>
<td>9</td>
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</tbody>
</table>

RESEARCH INFRASTRUCTURE

Non-invasive assessment department equipped with:
- Echocardiograph with intracardiac echocardiography interface
- ECG holter and 24 hour ambulatory blood pressure monitoring
- ECG efort test with alternating T wave analysis
- 12-channel ECG with software, computer, printer
- TILT table for syncope diagnosis
RESULTS

1. Publications included in Thomson ISI-journals (Web of Science) (selection)

<table>
<thead>
<tr>
<th>Article</th>
<th>Impact Factor</th>
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<tbody>
<tr>
<td>E. Bobescu, M. Radoi, G. Datcu, D. Dobreanu, M. Donea, B. Doka, M. Anghel, S. Cazacu. Evaluation of platelets hyperactivity, hypercoagulability status and oxidative stress biomarkers and outcomes in patients with acute coronary syndromes. ESC CONGRESS 2010, 28 August-1 September 2010, Stockholm, Sweden, Citation: European Heart Journal 2010;Vol.31(Abstract Supplement) September 2010:971, ISSN 1554-2815 (Online)</td>
<td>9,800</td>
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<tr>
<td>E. Bobescu, M. Radoi, G. Datcu, D. Dobreanu, B. Doka. Correlation between endothelial dysfunction, platelets hyperactivity, oxidative stress biomarkers and cumulative effects on prognosis in patients with acute coronary syndromes. Acute Cardiac care 2010, 16-19 October 2010, Copenhagen, Denmark, European Heart Journal Supplements (2010) 12 (Supplement F) October 2010, F19, ISSN 1554-2815 (Online)</td>
<td>9,800</td>
</tr>
<tr>
<td>Bobescu E., Radoi M., Dobreanu D., Rogozea L, Doka B Drugs with effects in reduction of oxidative stress, platelets hyperactivity, hypercoagulability status and incidence of sudden death in ACS. Fundamental and Clinical Pharmacology 2011, ISSN:0767-3981 (Print); ISSN: 1472-8206(Online). <a href="http://www.suddendeath.dk">www.suddendeath.dk</a></td>
<td>2,152</td>
</tr>
</tbody>
</table>
Article


Projects

International projects (selection)

1. ESPID (Nasopharyngeal colonization with respiratory pathogens: a 2-year prospective study at the Children's Hospital), Brasov, Romania, Coordinator Oana Falup – Pecurariu. (2009-2011).

National projects (selection)

1. Evaluating the efficiency of therapeutic agents with complementary mechanisms to reduce oxidative stress and platelet activation status in acute coronary syndromes procoagulants Project PN II- IDEI, nr. 727/2008 (2008-2011), coordinator Elena Bobescu

International and National Conferences

1. National Conference with international participation "Approach full-size model of Parkinson's disease: patient-care team -"Transilvania "University of Brasov, Faculty of Medicine, Neurology Society in Romania, Romania Antiparkinson Association, NPA Huston Company, Brasov, 23-24.09.2011, Chairperson Cristian Falup-Pecurariu

Assoc. prof. dr. med. Elena Bobescu
Research Center Coordinator
elena_bobescu@yahoo.com