Summary report on research accreditation

I. General information

Name of organization	Institute of Neurology and Neurosurgery							
Organization type (to underline)	Research institute High education institution <u>Ministerial research institute</u>							
Research mission of organization	Forecasting trends in morbidity, mortality and disability by nervous system diseases; Determining the impact of neurological disorders on public health and demographics; Development of interventional strategies;							
Strategic research direction (s)	Biomedicine, pharmaceutics, health maintenance and strengthening							
Evaluated period	2008-2013							
Web of organization	www.inn.md							

II. Research capacity (annual average for evaluated period)

Total number of employees	34.1							
Number of scientific researches	34.1							
Number of researches who possess honorific titles, scientific degrees, scientific and	ASM full members	AS corr mem	esp.	Professor	Associated professor	Dr.hab.		Dr. (PhD)
scientific-didactical titles	1	-	-	7	4	9		9
Number of researches involved in international projects	FP7 -			STCU -	Bilatera 1	1	Others -	
Number of young researches (under 35 years old)	Dr. (PhD)			PhD students 3		Others 9		
Financial resources (thousand MDL)	Public budget 1794,3		International projects/grants		Research contracts			
Distribution of expenditures (thousand MDL)	Salary 892,7		Infrastructure development 941,0		Other 223,5			
Expenditures for infrastructure development	Equipment IT infrastructure Endo		Endowment of experimental resorts					
(thousand MDL) List of 3 basic research methods, installations, technologies (per accredited field)	 -nonpharmacological noninvasive treatment by transcranial electrical stimulation (alternating current at continuous association) of patients with chronic migraine; - cardiorespiratory diagnosis of sleep breathing disorders of outpatient and inpatient; - therapy with CPAP (Continuous Positive Airway Pressure) for 						ntients with	

	obstructive sleep apnea syndrome in outpatient and inpatient;
	- method of rehabilitation of postural control in post-stroke patients by physical therapy program based on the effects of functional transfer
List of provided scientific services	-mini-invasive endoscopic evacuation of spontaneous intraventricular putaminale hematoma;
	-retrograde ventriculocisternografia with digital 3D reconstruction;
	-cerebral ventricular drainage by temporary continuously irrigation system of spontaneous intracerebral hematoma;
	-double ultrasound checking the degree of brain tumor resection;
	-determination of prognostic markers of glioma by rela 2 HG and lactate magnetic resonance spectroscopy;
	-endoscopic foraminoplastia by stent application in the treatment of hydrocephalus intraventricular due to foramen Monroe occlusion;
	-endoscopic transnasal transseptal transsphenoidal approach;
	- endoscopic endonasal transsphenoidal approach for resection of pituitary adenomas;
	-stereotactic biopsy of deep brain tumors with the Leksell frame
List of editorial	Institute of Neurology and Neurosurgery is the co-founder of the "The
activities	Bulletin of the Academy of Sciences. Medical Sciences" Journal.

III. Distribution of number of research projects and themes during evaluated period

Institutional	2008	2009	2010	2011	2012	2013
projects	4	4	4	2	2	2
Projects in the	2008	2009	2010	2011	2012	2013
frame of State	-	-	-	-	-	-
Programmes						
Technological	2008	2009	2010	2011	2012	2013
transfer projects	1	-	-	1	1	1
Projects for	2008	2009	2010	2011	2012	2013
equipment	1	-	-	-	1	-
procurement						
Projects for	2008	2009	2010	2011	2012	2013
young researches	-		1	1	1	-
Projects in the	2008	2009	2010	2011	2012	2013
frame of bilateral	-	-	1	-	-	_
programmes						
International	2008	2009	2010	2011	2012	2013

projects/grants	-	-	-	-	-	-
List of 3 representative international projects/grants			-			
Research contracts	2008	2009	2010	2011	2012	2013
List of 3 representative research contracts			-			

IV. Scientific publications

Total number of	Books Chapters in books Journal pap		
publications abroad	1	5	4
Total number of	Books	Chapters in books	Journal papers
publications in ISI journals and books	-	-	1
Total number of	Books	Chapters in books	Journal papers
publications in the country	6	1	184
Total number of	International abroad	International in the	National
conference abstracts	143	country 4	11
List of 5 representative publications (per accredited field) List of 5 citations	with and without med associated factors (Ac Center, Chisinau). Ce 3.4), V. 28, Issue 11, 2. Zepca Victor, Cristi Forming knowledge a students from Moldo Medici şi Naturalişti co. 3. Zepca Victor, Nina Ischool students from Societății de Medici şi p. 118-122 4. Осипова В.В., Азимо А.В., Куцемелов И. Г.И. Diagnosis of he соиntries: state of the и экспериментально N2, Москва, с. 16-21	na Petrescu, Nina Iziumabout behavioral risk factova. Revista Medico-Chirdin Iaşi, 2009, vol. 113, nr Iziumov. Self-assessed bom Moldova. Revista ii Naturalişti din Iaşi, 2009 ова Ю.Э., Табеева Г.Р., В., Молдовану И.В., Одеаdaches in Russia and the problem and its solutions й неврологии, том June, (0.186 - impact factor)	of drug phobia and Moldovan Headache ents (impact factor = nov, Angela Baroncea. ors in vocational school rurgicală a Societății de . 3, supl. 1, p. 123-126 ody mass by vocational Medico-Chirurgicală a D, vol. 113, nr. 3, supl. 1, Гарасова С.А., Амелин добеску С.С., Наумова he former Soviet Union з. Анналы клинической 2012, ISSN 2075-5473
List of 5 citations	O	and without medication ated factors (according t	
		` 8	

Headache Centre, Chisinau, the Republic of Moldova). Ion Moldovanu¹, Stela Odobescu² and Cristina Craciun¹. Cephalalgia Volume 28, Issue 11, pages 1229–1233, November 2008

Cited in:

- 1. The prevalence of primary headache disorders in Russia: A countrywide survey. I Ayzenberg, Z Katsarava, A Sborowski, M Chernysh, V Osipova, G Tabeeva, N Yakhno, TJ Steiner. Cephalalgia, April 2012, vol. 32, no. 5 373-381
- 2. Headache-attributed burden and its impact on productivity and quality of life in Russia: structured healthcare for headache is urgently needed. I Ayzenberg, Z Katsarava, A Sborowski, M Chernysh, V Osipova, G Tabeeva, V.Osipova, TJ Steiner. European Journal of Neurology, Volume 21, Issue 5, pages 758–765, May 2014
- 3. Диагностика головных болей в России и странах постсоветского пространства: состояние проблемыи пути ее решения. В.В.Осипова, Ю.Э.Азимова, Г.Р.Табеева, С.А.Тарасова, А.В.Амелин, И.В. Кумумургов, И.В. Монторому, С. Оноброму, Г.И. Наумора, Амияни,
- И.В.Куцемелов, И.В.Молдовану, С.Одобеску, Г.И.Наумова, Анналы клинической и экспериментальной неврологии.
- 4. Epidemiology, Risk Factors, and Treatment of Chronic Migraine: A Focus on Topiramate. Stephen Silberstein, Hans-Christoph Diener, Richard Lipton, Peter Goadsby, David Dodick, Genaro Bussone, Fred Freitag, Susan Schwalen, Steven Ascher, Jacqueline Morein, Steven Greenberg, David Biondi and Joseph Hulihan. Headache: The Journal of Head and Face Pain, Volume 48, Issue 7, pages 1087–1095, July/August 2008
- 5. Lifting The Burden: The Global Campaign Against Headache. Lars Jacob Stovner, Zaza Katsarava, Rigmor Jensen, Gretchen L. Birbeck, Paolo Martelletti. Handbook of Headache. 2011, pp 737-744

V. Innovation outputs

Total number of	Registered in the	Registered abroad	Implemented				
patents	country	Registered dorodd	Implemented				
patents	3						
T. (1 1 C		- N	- T 1 1				
Total number of new	Registered	Non-registered	Implemented				
developed methods	-	-	-				
and technologies							
Total number of new	Registered	Non-registered	Implemented				
scientific products	26	-	26				
Total number of							
scientific outputs for							
central and local	6						
authorities (draft of							
law, strategies etc.)							
Total number of	Handbooks	Handbooks for	Delivered university				
scientific outputs for	for high education	pre-university	courses				
educational	1	institutions	19				
institutions		-					
List of 5 representative	1. A method of treatment of cervical radiculopathy by selective regional						
innovation outputs	infiltration. Authors: S. Pleşca, D. Gherman, M. Sangheli, O. Şchiopu.						
(per accredited field)	Patent Nr. 93, 21.08.2009						

- 2. Device and method for draining of cerebral ventricles. Authors: D. Lîsîi, V. Timirgaz, G. Zapuhlîh. Patent Nr. 128, 21.05.2009
- 3. Preoperative prophylactic method of cerebral ischemia. Authors: V. Parpaut, M. Gavriliuc. Patent Nr. 119, 02.06.2009.
- 4. Kinesiology tape application method in the treatment of complex recovery syndrome "painful shoulder" in patients with post-stroke hemiparesis. Authors: Pascal O., Dimitras S., Agapii E., Cojocari D. Implementation Act on 31.05.2013
- 5. Application of low frequency pulse electroanalgezia in recovery treatment of complex syndrome "shoulder pain" in patients with post-stroke hemiparesis. Authors: Pascal O., Agapii E., Cojocaru D., Cozac V. Implementation Act on 12.06.2013

VI. Major scientific and innovation achievements

VI. Major scie	entific and in	novation ach	ievements			
Short description of main scientific results and its confirmation (by awards, citations, development of international projects etc.)	launched: A National Co National Co In the migraine pr was establistimulation The no chronic mi implemented As resi phenomena preoperative In the reeducation stabilograph A rang managemen transpedicula inspection percutaneous region. The im	National Center for Banter for Sleep frame of the eventive treats shed the edin increasing infarmacologistic prophylactic rehabilitation of balance are ic platform we ge of neuroset of hydrocepar vertebral method in second by integer of the provement of the pro	ment by tran ffectiveness the threshold fic and non- transcranial study of iso with atherose method of ce n of post-st nd postural co	adache and ational Center Moldavian-Gracian director of cathodic of preshional invasive treat electrical chemic cerebral ischemic stenos erebral ischemic patients ontrol in by procession of the patients of the many to intracrate the "ARC" is ment of later the of vertebrate and neuronal medical and neuronal cerebrate and neuronal cerebrates.	Autonomic or for Surger for Surger erman project current surger electrical pain. It ment for prostimulation or propositional tissue sis of carotinia was elaborated with the mositional biomplemented: anial tumour system, the electrical in the subdural all hemangion prosurgical surgical surgi	ect Chronic timulation, it transcranial batients with has been stupefaction d arteries, a orated. hiparesis the ofeedback on endoscopic s, CT-guided endoscopic hematomas, na in lumbar
Number of organization' invited speakers at international conferences	2008	2009	2010	2011	2012	2013
Short description of technological transfer and innovation results	The implementation of the <i>Medical Information System</i> allowed the optimization of neurological and neurosurgical service. Modern scientific equipment was implemented for mini - invasive technologies in the treatment of neurocompressive syndromes, for					nvasive

and its certification	stabilizing p	stabilizing pedicle screws and rods with titanium in the treatment of						
by implementation	degenerative	e diseases of t	he thoraco - l	umbar spine a	and for percu	utaneous		
	vertebroplasty in the surgical treatment of symptomatic vertebral							
	hemangiomas.							
	In the frame of the project 13.824.19.182T Deploying laser surgery of							
	cerebral tumors there were implemented:							
	- Endoscopic transnasal ablation of pituitary adenomas by transseptal							
	transsphenoidal approach. Author: R.Safta. Implementation Act No. 3 of							
	22.03.2012;							
	- Endonasal	endoscopic a	ablation of pit	uitary adenor	nas by transs	sphenoidal		
	approach. A	uthor: R.Safta	a. Implementa	ation Act No.	4 of 22.03.2	012;		
	- Stereotact	ic biopsy of d	leep brain tun	nors in the Le	ksell frame.	Author:		
	E.Condrea. Implementation Act No. 5 of 22.03.2012							
Number of defended	2008 2009 2010 2011 2012 2013							
dr.hab. and dr. theses	1/2	0/1	0/1	0/3	1/2	1/3		
per year								

VII. Present/further involvement in the Seventh Framework Programme (FP7): specific programmes (Cooperation, Ideas, People, Capacities) of interest and its sub-divisions.

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VIII. Accredited research field and its evaluation by the National Council for Accreditation and Attestation of the Republic of Moldova (very good/good/satisfactory)

Neurology and neurosurgery – good

IX. Category (A/B/C) attributed by the National Council for Accreditation and Attestation of the Republic of Moldova to the organization

Category B

X. Institutional development actions planned for the next 5 years (maximum ½ page).

- 1. Development of policy for preventing and treating diseases of the nervous system;
- 2. Coordination of national surveillance and management of patients with diseases of the nervous system;
- 3. Providing medical care, including neuroimaging and laboratory diagnosis;
- 4. Analysis of statistical data in order to establish the epidemiological features and to assess the trends of nervous system diseases in society;
- 5. Development of methodical advisory by organization of supervision, inspection of laboratories and training of specialists in the field;
- 6. Monitoring and evaluation of level of achievement of national program for surveillance,

prevention, emergency and planned care, and recovery from nervous system diseases;

- 7. Accomplishment of retroactive connections with national medical institutions of primary and secondary level;
- 8. Enhancement of the activity of science department through development and implementation of new strategies for providing modern healthcare, participation to international scientific projects in the field of health, and implementation of scientific researches into the practical activity: diagnose and treatment of disorders of nervous system.