## Summary report on research accreditation

Name of organization	Institute of Emergency Medicine
Organization type ( <i>to underline</i> )	Research institute High education institution <u>Ministerial research institute</u>
Research direction (s) of organization	<ul> <li>Organization of specialized service for multiple and associated trauma on the pre-hospital and hospital stage;</li> <li>elaboration of "damage control" principles for abdominal trauma and acute abdominal surgical pathology;</li> <li>elaboration of diagnostic and management methods for acute abdominal pathology;</li> <li>implementation of telemedicine and creating of a national advisory center at the distance;</li> <li>enhancement of the intervention capacity and emergency medical assistance in disaster situations;</li> <li>improvement of noninvasive and neurosurgical management of ischemic stroke in the Republic of Moldova.</li> </ul>
Correlation with strategic research direction (s) of activity in the field of science and innovation for 2013-2020	- Health and Biomedicine
Evaluated period	2010 - 2014
Web of organization	www.urgenta.md

### I. General information

## II. Research capacity (annual average for evaluated period)

Total number of employees	28							
Number of scientific		28						
researches		T						1
Number of researches	ASM full		SM	Professor	Associated	Dr.	hab.	Dr. (PhD)
who possess honorific	members		esp.		professor			
titles, scientific		men	nbers					
degrees, scientific and	2		-	4	9		5	19
scientific-didactical								
titles								
Number of researches	Europea		Uni	ted Nations	financed from the		Others	
involved in	Commissi		progra	ams and funds				
international projects	program	S		2	national bu	dget		1
Number of young		PhD s	tudents	2	-	Oth	ners	1
researches (under 35		T HD 5	luuuinto			01	1015	
years old)		4	4		-			
Financial resources -		Public	budget			Special	means	1
		I uone	buuget			Special	means	
revenues (thousand MDL)	625,1				372,6			
(thousand MDL)	,			International				
Categories of special		National				interna	auonal	
means (thousand	372,6			_				
MDL)		01	-,~					

Distribution of	Salary	Procurement of	Traveling for	Other			
expenditures		scientific equipment	scientific purposes				
(thousand MDL)			(travel,				
(thousand WIDE)			accommodation,				
			per-diems, etc.)				
	342,3	642,8	1,04	90,6			
List of 3 basic research	- Computer-based	tomograph Toshiba	a Prime Aquilon TS	SX-303 A (2014);			
methods, installations,	- Stryker Pressure	Monitor System (2	011);				
technologies (per	- Electroencephal	ograph NIC- 1CP	, NicoletOne Clini	ical EEG System			
accredited field)	(2014);						
	- Automatic hema	tology analyzer Sys	smex KX-21N (201	3);			
	- Automatic biochemical analyzers Dirui CS T-240 (2012), Siemens						
	Dimension RxL (2013), etc.						
List of provided	-Various surgica	-Various surgical procedures;					
scientific services	-tomography, an	giography, magneti	ic resonance imagin	ig, endoscopy;			
	– analyzes: bioc	- analyzes: biochemical, general, clinical, immunological, hematologic,					
	cytological.						
List of editorial	Co-founder of the	e journal "Buletinu	1 Academiei de Șt	iințe a Republicii			
activities	Moldova. Științ	e medicale", I	SSN 1857-0011,	category B+,			
	http://www.bsl.asr	n.ms					

ASM institutional	2010	2011	2012	2013	2014	
projects	1	1	1	1	1	
ASM projects in the	2010	2011	2012	2013	2013	
frame of State	-	-	-	-	-	
Programs						
ASM technological	2010	2011	2012	2013	2014	
transfer projects	-	1	1	1	-	
ASM projects for	2010	2011	2012	2013	2013	
equipment	-	-	-	-	-	
procurement						
ASM projects for	2010	2011	2012	2013	2014	
young researches	-	-	-	-	-	
ASM projects in the	2010	2011	2012	2013	2014	
frame of bilateral	-	-	-	-	-	
programs						
International	2010	2011	2012	2013	2014	
projects/grants	1	1	1	-	1	
List of 3 representative	1) "Project for	• improving med	dical and public	health system i	by introducing	
international	new medical e	quipment perfo	<i>rmance</i> ." Japan	ese Internationa	al Cooperation	
projects/grants	Agency (JICA	). Duration: 20	14. Financing a	mount: 103409	7600,00 Japan	
	Yen					
			World Health (			
			iction of Pulse	•		
		· ·	oject. 2012. Fi	nancing amour	nt: centralized	
		se Oximetry, U				
		3) "Medical Triage multiple accidents and disasters casualty". WHO				
	project, Elabo	ration of Natio	nal Guide. 201	0 – 2011. Fina	ncing amount:	

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

	US \$ 3 000						
Research contracts	2010	2011	2012	2013	2014		
	1	2	2	2	-		
List of 3 representative	1) 09.12.2010 - Bioghen Idec Limited, Innovation Hous, 70 Norden Road,						
research contracts	Maidenhead, E	Berkshire, SL6 4	AY, United Ki	ngdom, TVA G	D5031018		
	2) Nr. 1-1110, 2011 – 3S- Pharmacological Consultation & Research						
	GmbH, Konigsbergerstrasse 1, 27243 Harpstedt – Germany						
	3) 22.01.2013 – Pharm Research Associates (U.K), 500 South oak Way,						
	Greeen Par	k, Reeding, Be	rkshire, RG2 6A	AD, United King	gdom		

# IV. Scientific publications

Total number of	Books	Chapters in books	Journal papers
publications abroad	-	1	93
Total number of	Books	Chapters in books	Journal papers
publications in ISI journals and books	-	-	11
Total number of	Books	Chapters in books	Journal papers
publications in the country	8	2	166
Total number of	International abroad	International in the country	National
conference abstracts	155	9	15
publications (per accredited field)	<ul> <li>Volumul 1. Chişinău, 4396-9-5)</li> <li>2. CIOBANU Gh.</li> <li>Volumul 2. Chişinău, 4396-9-5</li> <li>3. CIOBANU, Gh. M sănătății publice al Centrală", 2011, 540p.</li> <li>4. GROPPA S., POST craniocerebrale asocia</li> <li>5. CIOBANU, Gh. Şo 978-9975-4224-1-3)</li> <li>ISI/journals:</li> <li>1. KWOK A.C, FUNI A.F., DZIEKAN G., C Implementation of th Checklist, including int setting. Ann Surg. (2012):7.188</li> <li>2. MISHIN, I.; GH ZASTAVNITSKY, Gh treatment of severe blea ligation. Diseases of the ISI IF (2013):2.057</li> </ul>	Resuscitarea cardioresp. "Nova-Imprim". 2014: 7 Resuscitarea cardioresp. "Nova-Imprim". 2014: 10 anagementul serviciului Republicii Moldova. Cl (ISBN 978-9975-53-004-( OLACHI R., BURUNSU te. Ch. Combinatul poligra cul. Ch.,SRL"Nova-Impri K L.M., BALTAGA R., I CIOBANU Gh., BERRY W e World Health Organi troduction of pulse oximet 2013;257(4):633-9.ISSN IDIRIM, Gh.; DOLGH h. Implantation of self-expa eding from esophageal ulc e Esophagus. 2010; 23(7):	<ul> <li>72 p. (ISBN 978-9975- iratorie şi cerebrală.</li> <li>094 p. ISBN 978-9975- de urgență în sistemul h., Î.S. F.E"Tipografia</li> <li>3) S V. Katatraumatismele afic. 2012: 184 p. m", 2011:424 p. (ISBN</li> <li>LIPSITZ S.R., MERRY</li> <li>W.R., GAWANDE A.A. ization Surgical Safety ry, in a resource-limited 0003-4932 ISI IF</li> <li>III, A.; BUNIC, G.; anding metal stent in the er after endoscopic band 35-38. ISSN 1442-2050</li> </ul>
List of 5 citations	ISI IF (2013):2.057 1. MISHIN, I.; GHI		II, A.; BUNIC, G.;

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	treatment of severe bleeding from esophageal ulcer after endoscopic band
	ligation. Diseases of the Esophagus. 2010; 23(7): 35-38. ISSN 1442-2050
	ISI IF(2013):2.057 18 citations
	2. KWOK A.C, FUNK L.M., BALTAGA R., LIPSITZ S.R., MERRY
	A.F., DZIEKAN G., CIOBANU Gh., BERRY W.R., GAWANDE A.A.
	Implementation of the World Health Organization Surgical Safety
	Checklist, including introduction of pulse oximetry, in a resource-limited
	setting. Ann Surg.2013;257(4):633-9.ISSN 0003-4932 ISI IF(2012):7.188
	35 citations
	3. GHIDIRIM, Gh.; MISHIN, I.; ZASTAVNITSKY, Gh. Pseudomyxoma
	peritonei presenting with inguinal hernia. Chirurgia (Bucur.), 2011;
	106(4): 527-529. ISSN 1221-9118. ISI IF(2011): 0.56 4 citations
	4. MISHIN I., GHIDIRIM Gh., ZASTAVNITSKY Gh., POPA C. Torsion
	of an appendiceal mucinous cystadenoma. Report of a case and review of
	literature. Ann Ital Chir. 2012; 83(1):75-8. ISSN 0003-469XISI
	IF(2013):0.683 <u>6 citations</u>
	5. MISHIN, I.; GHIDIRIM, Gh.; VAZIAN, M. Acute spontaneous
	chylous peritonitis. Journal of Gastrointestinal and Liver Disease. 2010;
	19(3): 333-335. ISSN 1842-1121 ISI IF(2013):1.849 <u>4 citations</u>
	$\frac{17(5)}{555} \frac{555}{555} \frac{1042}{1042} \frac{1121}{151} \frac{1042}{1000} \frac{1042}{1000} \frac{1042}{1000} \frac{1000}{1000} 1$

# V. Innovation outputs

Total number of	Registered in the country	Registered abroad	Implemented			
patents	17	5	18			
Total number of new	Registered	Non-registered	Implemented			
developed methods	20	-	20			
and technologies	30		30			
Total number of new	Registered	Non-registered	Implemented			
scientific products	54	-	54			
List of 5 representative	1. CIOBANU GH., PR	ROCOPENCO O., TOPA	L O., SÎRBU D. MD.			
innovation outputs	Method of zygomatic co	omplex fractures osteosyn	thesis. Z ISD558 patent			
(per accredited field)	registration date 2013.06	5.30				
	2. BOROVIC E., CIOE	BANU GH., LISI D. Ma	nipulator for fixing and			
	moving of multiform ob	jects. Nr. 1537 Certified A	Agency 2014 2:17			
	3. GHIDIRIM GH.; MI	SHIN I., ISTRATE V.; E	BODRUG N. Method of			
	endoscopic papilectomy	. date ISD patent registrati	on 180 Z 2010.04.3031			
	4. BOROVIC E., BORO	OVIC E. Device with exte	ernal adjustable element			
	for osteosynthesis tubular long bones. ISD 1359 patent registration date					
	2011.10.11					
	5. GHIDIRIM GH.; MI	SHIN I., ISTRATE V.; E	BODRUG N. Method of			
	closure defect of duoden	al mucosa. Patent ISD 18	1 Z 2010.04.30			

# VI. Other outputs

Total number of scientific outputs for central and local authorities (draft of law, strategies etc.)		5	
Total number of scientific outputs for educational	Handbooks for high education <b>2</b>	Handbooks for pre-university institutions -	Number of researchers – supervisors of license and master theses 24

institutions		

# VII. Major scientific and innovation achievements

Short description of	1) In the frame	1) In the frame of the WHO project "Implementation of the World Health						
main scientific results	Organization	Organization Surgical Safety Checklist, Including Introduction of Pulse						
and its confirmation	Oximetry, in a Resource- Limited Setting" it was demonstrated that the							
(by awards, citations,	successful hos	successful hospital-wide Surgery Safety Checklist implementation can be						
development of	achieved in a	achieved in a resource-limited setting and can significantly reduce the						
international projects	surgical hazar	ds and complic	ations. The pro	ject results wer	e published in			
etc.)	-	-		(KWOK A.C,	-			
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	citing $(35)$ .			(o) and nuve u				
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		npact on health			duce surgreat			
Number of researchers	2010	2011	. 2012	2013	2014			
invited as speakers at	2010	-011	_01_	2010	-011			
international	24	6	9	37	7			
conferences								
Short description of	The technolog	gical transfer:						
technological transfer	•	2	tom" DICOM λ	Vetwork ". Proje				
and innovation results		Γ, Duration: 01						
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implementation	~ ~			s and efferent a				
Implementation			A A	rvous system th	0			
		nation methoa	. Project 14.822	4.04.189T, Dura	ation: 2014-			
	2015		• 1 .• .	• • • •	1 • 1			
	-		-	imulation in net	-			
	*			on: 2011 - 2012				
Number of defended	2010	2011	2012	2013	2014			
dr./dr. hab. theses per year	1	-	2	-	-			

#### VIII. Present/further involvement in the Horizon 2020 (FP7)

Grant Contract: "Performance in neuroscience through access and collaboration with European research platforms" (In the Grant Contract "Nr. 2014 / 346-992 European Commission's" financial support for Moldova's participation in the European Union's Framework Program for research and innovation HORIZON 2020 ") 01/04/2015 - 04/01/2016

Subject: maintaining and developing cooperation with the European Research Centre of Excellence Supervisor - Acad. Stanislav Groppa

#### IX. Accredited research field and its evaluation by the National Council for

#### Accreditation and Attestation of the Republic of Moldova (very good/good/

satisfactory)

Emergency Medicine - good

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

#### Category B

#### XI. Institutional development actions planned for the next 5 years (maximum <sup>1</sup>/<sub>2</sub> page).

- Research of clinical polymorphism, pathogenic mechanisms and specific features of therapy of patients with ischemic stroke by applying the transcranial magnetic stimulation (TMS) in the acute period of time in evolutionary aspect.
- Research of efficiency of patient recovery through physical therapy and transcranial magnetic stimulation.
- Developing the protocol for the use of TMS and a physical therapy protocol for patients with ischemic stroke in the acute period.
- Research of the impact of thrombolytic therapy on the average length of stay, lethality, recurrence rate, repeated hospitalization, temporary disability and evolutionary aspect of disabilities in time.
- Establishing a national protocol in the field of ischemic stroke surgery, assessment of surgical treatment perspectives of patients with ischemic stroke in the acute period.
- Optimization of diagnostic and treatment algorithm for of ACS, stroke and UH. Implementation of standardized triage records for minimally invasive thrombolytic therapy in the ER, ER-S / UPU for ACS and stroke.
- Assessment of efficacy parameters of emergency care of patients with stroke, ACS (acute coronary syndrome) and HE (hypertensive emergency).
- Determining the tactics of surgical treatment of multiple locomotor fractures of patients with chest and abdominal trauma.