Project Title Oracle Project Number Objectives Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy

2060119

To review, harmonize and upgrade quality assurance and quality control programmes in radiotherapy departments of two major regional hospitals in Croatia to avoid accidental exposure during therapeutic procedures.

## **General Project Data**

Field(s)
APC Code(s)

**Project Achievements** 

(6F) Radiation Metrology and Dosimetry

(F ) Human Health

Background:

There have been six radiotherapy departments in Croatia with similar facilities and equipment. Croatian radiation protection laws insist on QA/QC programmes in all radiotherapy departments, but the programmes in them were inconsistent and had many shortcomings thus there was a low level of implementation. As the upgrade of QA/QC programmes is a long term objective, a graduated approach was chosen to introduce pilot in Department of Radiotherapy and Oncology in two hospitals. Later they can be expanded from these pilot projects to the others until the full national coverage. Agency was requested to review, harmonize and upgrade quality assurance and quality control programmes in radiotherapy departments of two major regional hospitals in Croatia University Hospitals in Osijek and Rijeka - to avoid accidental exposure during therapeutic procedures.

Outputs:

The aim of the first scientific visits was how to set up and implement a QA/QC program in the radiotherapy department and to compare it will lessons learned in two radiotherapy departments. Agency provided a complete set of handbooks and manuals from the setting up a radiotherapy programme including clinical, medical physics, radiation protection and safety aspects up to the QC/QA via the practical work of the radiotherapy departments up to the audits. The main aim of the scientific visit was to analyze the organization of working flow (timetable, schedules) with a special look into the questions concerning quality control of the whole working process in a radiation therapy unit (department). Visit was designed in order to improve the process at home-concerning improvement of the ordinary steps in every day work, but mainly to get the idea how to solve some obstacles and to improve the surveillance and quality control of the whole process of radiation therapy planning and performing. A specific training focused on QA/QC of the medical physics aspects of radiotherapy treatment process from treatment preparation to delivery with special emphasis on commissioning of treatment machines and their implementation in clinical practice; on equipment related QA, treatment plan verification and in vivo dosimetry in advanced clinic setting. Theory and practical lessons learned helped to upgrade and harmonization of QA/QC systems in two regional radiotherapy departments

Radiotherapy equipment QC protocols, which insure optimal equipment conditions for safe delivering of the prescribed dose, were upgraded and harmonized at two major regional hospitals.

Clinical protocols for radiation therapy procedure (patient positioning and dose verification) were also implemented at two major regional hospitals. QA/QC procedures at radiotherapy department have been included in hospital QA manual. Two major regional centres have now qualified staff trained in QA/QC procedures. Awareness of importance of QA/QC for the optimal and safe delivery of the prescribed dose to the target volume is built. National professional bodies can now review reports from the two pilot hospitals and recommend QA/QC programmes to be established in all radiotherapy departments in Croatia. Regulatory framework for the QA/QC programmes of radiotherapy has been put in place

Outcome:

Harmonised QA/QC system established in radiotherapy departments of two major regional hospitals in Croatia (in Osijek and Rijeka) under the project, provided pathway for the establishment of QA/QC system in the whole country as requested by the Croatian radiation protection law. Next step is the expansion at the national level from recent pilot project to all six radiotherapy departments in Croatia, in which professional societies and regulatory body (State office for radiation protection) have their role.

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ACC Sector Project Status Completed on 2014-06-01
Original Funding Core 1st Year Of Approval 2009

Estimated Duration Syear(s)

**IAEA Personnel** 

ProgrammeCHUPOV, AndreiTCEUEurope Section 2

Management OfficerSection HeadSALMINS, AndrejsTCEUEurope Section 2

**Technical Officer(s)** IZEWSKA, Joanna NAHU Dosimetry and Medical Radiation Physics Section

**Recipient Institutes and Counterpart(s)** 

Croatia University J.J. Strossmayer; University J.J. Strossmayer; Medical Faculty; Osijek (FAJ, Dario)

Croatia University Hospital Osijek; Department of Oncology and Radiotherapy; Osijek (KASABASIC, Mladen)

Croatia University Clinical Hospital Rijeka; Department of Radiotherapy and Oncology - Croatia; Rijeka (JURKOVIC, Slaven )

## **Current Year Financial Status**

Fund	•	Disbursement		Disbursement	Previous Year Unliquidated Obligation			Total Disbursement
	Grand Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## Financial Approvals Core Approvals

Year	Experts	Meetings/Worksh	Fellowships	Scientific	Training	HR Total	Equipment	Subcontracts	Miscellaneou	PR Total	Total
		ops		Visits	Courses				s		Approval
2009	10,100.00	0.00	0.00	20,000.00	0.00	30,100.00	56,000.00	0.00	0.00	56,000.00	86,100.00
2010	0.00	0.00	0.00	0.00	0.00	12,870.00	0.00	0.00	0.00	50,000.00	62,870.00
2011	17,000.00	0.00	7,200.00	0.00	0.00	24,200.00	0.00	0.00	0.00	0.00	24,200.00

Footnote Approvals Meetings/Workshops Scientific Visits Training Courses HR Total PR Total Year Experts Fellowships Equipment Subcontracts Miscellaneous Total Approval

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Task	Task title/Participant Nationality Name	Candidate approached	Submitted:s Accepted:a	Withdrawn:w Rejected:r	Start Date	End Date	Duration (days)	
90	Staff Travel Mission(Project Manag	ement/Review)	-	-			_	Field: 6F
	Mission 01 JD Submitted: 2009-06-2	2						
	Duty Station : Zagreb( CRO )							
	DEUFRAINS, Katherina GFR				2009-09-01	2009-09-03	2	
	Lydia							

**Meetings/Workshops** 

Duration (days)
Field: 6F
0
0
Field: 6F
0

I.A.E.A TECHNICAL CO-OPERATION FULL PROJECT STATUS REPORT

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Task	Task title/Participant Name	Nationality	Candidate approached	Submitted:s Accepted:a	Withdrawn:w Rejected:r	Start Date	End Date	Duration (days)
	JURKOVIC, Slaven	CRO		-	•	2010-03-30	2010-03-30	0

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No	Name	Nominated	Awarded:a Non-awarded:n	Host Country	Туре	Proposed:p Accepted:a	Anticipated Start Date	Start Date	End Date	Proposed Duration
CRO10005	Mr. KASABASIC,	2010-02-01	Withdrawn:w 2010-07-27 a	GFR	ı	Rejected:r 2010-08-09 a	2010-08-30	2010-08-30	2010-09-29	00/100

Mladen

TC Field: Radiation Medicine and Health(6A)(CRO10005)

Training: training in the following

3D TPS

CT Simulation

Corformal 3D radiotherapy

MLC QA

The training requested is related to the IAEA's TC project entitled: Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy(CRO6008).

Technische Universität Dresden; Universitätsklinikum Carl Gustav Carus Dresden, Dresden

Institute(s):

Host

Radiation Medicine and Health(6A)(CRO09012)

**Andrea** 

TC Field:

Name Nominated N	<u>Scientif</u>	<u>ic Visits</u>									
Regidation Medicine and Health(6A)   Regidatio	No	Name	Nominated	Non-awarded:n		Туре	Accepted:a	•	Start Date	End Date	
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Institute(s): CR009010 TC Field: Training: Setting up and implementation of a QA/QC program in the radiotherapy department. The training requested is related to the IAEA's TC project entitled: Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy(CR06008). Université Catholique de Louvain; Faculté de médecine; Universite Catholique de Louvain Faculte de medecine Cliniques Universitaires St. Luc, Bruxelles  TC Field: Training: T	_										
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TC Field: Training:  Radiation Medicine and Health(6A)(CR009010)  Setting up and implementation of a QA/QC program in the radiotherapy department. The training requested is related to the IAEA's TC project entitled: Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy(CRO6008).  Université Catholique de Louvain; Faculté de médecine; Universite Catholique de Louvain Faculte de medecine Cliniques Universitaires St. Luc, Bruxelles  Ms. 2009-04-09 2009-06-16 a BEL I 2009-10-29 a 2010-02-22 2010-02-26 00/7  KOTROMANOVIC, Zdenka  TC Field: Training: Radiation Medicine and Health(6A)(CR009011)  Setting up and implementation of a QA/QC program in the radiotherapy department. The training requested is related to the IAEA's TC project entitled: Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy(CR06008).  Université Catholique de Louvain; Faculté de médecine; Universite Catholique de Louvain Faculte de medecine Cliniques Universitaires St. Luc, Bruxelles  Institute(s):		Mr EAL Darie	2000 04 00	2000 06 16 2	DEI		2000 10 20 2	2010 02 22	2010 02 22	2010 02 26	00/7
Training:  Setting up and implementation of a QA/QC program in the radiotherapy department. The training requested is related to the IAEA's TC project entitled: Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy(CRO6008). Université Catholique de Louvain; Faculté de médecine; Universite Catholique de Louvain Faculte de medecine Cliniques Universitaires St. Luc, Bruxelles  Ms. 2009-04-09 2009-06-16 a BEL I 2009-10-29 a 2010-02-22 2010-02-22 2010-02-26 00/7  KOTROMANOVIC, Zdenka  TC Field: Training: Radiation Medicine and Health(6A)(CRO09011) Setting up and implementation of a QA/QC program in the radiotherapy department. The training requested is related to the IAEA's TC project entitled: Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy(CRO6008). Université Catholique de Louvain; Faculté de médecine; Universite Catholique de Louvain Faculte de medecine Cliniques Universitaires St. Luc, Bruxelles  Institute(s):					DEL	•	2009-10-29 a	2010-02-22	2010-02-22	2010-02-20	00/7
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Institute(s):  CRO09011  Ms. 2009-04-09 2009-06-16 a BEL I 2009-10-29 a 2010-02-22 2010-02-22 2010-02-26 00/7  KOTROMANOVIC, Zdenka  TC Field: Training:  Radiation Medicine and Health(6A)(CRO09011)  Setting up and implementation of a QA/QC program in the radiotherapy department.  The training requested is related to the IAEA's TC project entitled: Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy(CRO6008).  Université Catholique de Louvain; Faculté de médecine; Universite Catholique de Louvain Faculte de medecine Cliniques Universitaires St. Luc, Bruxelles	J										
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KOTROMANOVIC, Zdenka  TC Field: Training: Radiation Medicine and Health(6A)(CRO09011) Setting up and implementation of a QA/QC program in the radiotherapy department. The training requested is related to the IAEA's TC project entitled: Upgrading the Quality Assurance and Quality Control Programmes in Radiotherapy(CRO6008). Université Catholique de Louvain; Faculté de médecine; Universite Catholique de Louvain Faculte de medecine Cliniques Universitaires St. Luc, Bruxelles		Ma	2000 04 00	2000 06 16 5	DEI		2000 10 20 5	2010 02 22	2010 02 22	2010 02 26	00/7
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Host Université Catholique de Louvain; Faculté de médecine; Universite Catholique de Louvain Faculte de medecine Cliniques Universitaires St. Luc, Bruxelles Institute(s):	Training:										
Institute(s):	Usak										
		Universite Cathol	ique de Louvain;	racuite de medecine	e; Universite	Catholiqu	ue de Louvain Faculte	de medecine Cili	niques Universit	aires St. Luc, Bri	uxeiles
		Ms. POPARIC.	2009-04-09	2009-11-17 w	BEL	ı	2009-10-29 a				00/7

No	Name	Nominated	Awarded:a Non-awarded:n Withdrawn:w	Host Country	Туре	Proposed:p Accepted:a Rejected:r	Anticipated Start Date	Start Date	End Date	Proposed Duration
Training: Host	The training requ	iested is related t	a QA/QC program in o the IAEA's TC proje Faculté de médecine	ect entitled:	Upgrading t	tment. he Quality Assuranc				
Institute(s):	Offiversite Catrio	iique de Louvaiii,	racuite de medecino	e, Universite	Catholique	de Louvaiii racuite	de medecine cin	iliques offiversit	alles St. Luc, Bri	ixelles
CRO10004	Mr. KOKIC, Ivan	2009-11-16	2009-11-20 a	BEL	I	2010-01-15 a	2010-02-22	2010-02-22	2010-02-26	00/7
TC Field: Training:		ne and Health(6A	a QA/QC program in	the radioth	erany denar	tment				
ag.	The training requ	iested is related t	o the IAEA's TC proje	ect entitled:	Upgrading t	he Quality Assurance				
Host	Université Catho	lique de Louvain;	Faculté de médecine	e; Universite	Catholique	de Louvain Faculte	de medecine Cli	niques Universit	aires St. Luc, Bri	uxelles
Institute(s): CRO10009	Mr. JURKOVIC,	2010-06-09	2010-07-07 a	SLO	ı	2010-07-13 a	2010-07-26	2010-07-26	2010-07-30	00/7
	Slaven									
TC Field:		J,	y(6F)(CRO10009)							
Training:	The SV should co	over the following	;							
		ortunity to compa	re the existing proto	cols of the l	Jniversity H	ospital Rijeka with c	linically proven p	protocols in an e	stablished radio	therapy
	department	s to undate and i	mprove the existing	nrotocols or	0.00/000	gramme at the radio	otherany denartr	ment of the Univ	versity Hospital F	lijeka
			tical implementation						ersity Hospital I	Пјека
			to the IAEA's TC proje	ect entitled:	Upgrading t	he Quality Assuranc	ce and Quality Co	ontrol Programm	es in Radiothera	py(CRO6008).
Host Institute(s):	Institute of Onco	logy Ljubljana, Lju	ubljana							
CRO11008	Ms. SVABIC,	2011-01-24	2011-05-18 a	ITA	I	2011-05-23 a	2011-06-06	2011-06-06	2011-06-17	00/14
	Manda									
TC Field:			y(6F)(CRO11008)	iciae canacti	f d: -+b -		aaa frana traatna		to dolivoor with	ana sia l
Training:			C of the medical phy trment machines and							
	patient specific C	A, including inde	pendent MU calculat	ion, treatme	ent plan veri	ification and in vivo	dosimetry in adv	/anced clinic set	ting.	
	The training requestion Project Number:2		to the IAEA's TC proje	ect entitled:	Upgrading t	he Quality Assuranc	ce and Quality Co	ontrol Programm	es in Radiothera	py (Oracle
Host			della Misericordia, U	dine						
				-						

## **Training Courses**

**Equipment** 

Institute(s):

WP	PO Num	Total Value	Order Date	Status	Vendor Name	Vendor Location
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1

500

Training Fee

each

2010/12/31

Item	Quantity	Unit	Item Description				Planed Shipping Date	Actual Shipping Date
	201206024			2012/11/27	APPROVED	IDA DOCIMETRY Contil		
1	201206034		1 v DC61 000 U DT 1	2012/11/27		IBA DOSIMETRY GmbH	2012/02/20	2012/02/11
2	1 1	each lot				vare latest version (film option panel included) EUR24,632.00 on site for max. 2 working days EUR2,000.00	2013/02/20 2013/02/20	2013/03/11 2013/04/23
	201206644			2012/12/18	APPROVED	IBA DOSIMETRY GmbH		
1 1	0.563804 0.436196	lot lot				l analysis software for plan verification EUR8,274.00 l analysis software for plan verification EUR8,274.00	2013/02/19 2013/02/19	
	201200182			2012/01/20	APPROVED	CIRS - Computerized Imaging Reference Systems, Inc.		
1	0.033283 6	lot	CIRS Phantom and acc	essoties as per e	nclosed offer 59	944-2	2012/11/17	2012/10/29
1	0.966716	lot	CIRS Phantom and acc	essoties as per e	nclosed offer 59	944-2	2012/11/17	2012/10/29
	201206729			2012/12/19	APPROVED	ELIMPEX Medizintechnik Ges.m.b.H.		
1	0.436196	each	- 1 x E111900 Gafchro				2013/02/19	2013/04/29
1.	0.563804	each	- 1 x E111900 Gafchro	mic EBT Suite inc	luding:		2013/02/19	2013/04/29
	ntracts							
WP	PO Num		Total Value	Order Date	Status	Vendor Name	Vendor Location	
Item	Quantity	Unit	Item Description				Planed Shipping Date	Actual Shipping Date
	g Courses	<u> </u>						
WP	PO Num		Total Value	Order Date	Status	Vendor Name	Vendor Location	
Item	Quantity	Unit	Item Description				Planed Shipping Date	Actual Shipping Date
Others							•	'
WP	PO Num		Total Value	Order Date	Status	Vendor Name	Vendor Location	on
Item	Quantity	Unit	Item Description				Planed Shipping Date	Actual Shipping Date
	200994200			2011/01/26	APPROVED	Universite Catholique de Louvain Faculte de medecine		

	200994207			2011/01/26	APPROVED	Universite Catholique de Louvain Faculte de medecine	
1	500	each	Training Fee				2010/12/31
	201080651			2011/01/26	APPROVED	Universite Catholique de Louvain Faculte de medecine	
1	500	each	Training Fee				2010/12/31
	FTS-35626			2014/01/30	APPROVED	Université Catholique de Louvain; Faculté de médecine;	
1	500	each	PartyNumber:206860 K0	OKIC, MR Ivan	Non Staff		
	201000657			001110110	10000150		
	201080657			2011/01/26	APPROVED	Universite Catholique de Louvain Faculte de medecine	
1	500	each	Training Fee				2010/12/31
	FTC 41.5.C			2011/05/21	4 DDD 0) (ED		
	FTS-4156			2011/05/31	APPROVED	Abdus Salam International Centre for Theoretical	
1	600	each				Non Staff Management and Placement Fee)	
2	500	each	429216 SVABIC, Ms. Ma	nda Staff SVABI0	C, Ma (Training N	Non Staff Tuition)	
	200994227			2011/01/26	APPROVED	Universite Catholique de Louvain Faculte de medecine	
1	500	each	Training Fee				2010/12/31
	FTS-35634			2014/01/30	APPROVED	Université Catholique de Louvain; Faculté de médecine;	
1	2500	each	PartyNumber:206860 K0	OKIC, MR Ivan	Non Staff		
	FTS-4155			2011/05/31	APPROVED	SVABIC, Ms Manda	
1	1816	each				June 2011, 13 nights @ \$196=\$2548=EUR 1781, Exch	
			Rate: 0.6990000009536				
2	42	each	429216 SVABIC, Ms. Ma	nda Staff Other	(Mileage: 150kn	n x 2 x .02c)	
	201080654			2011/01/26	APPROVED	Universite Catholique de Louvain Faculte de medecine	
1	500	each	Training Fee				2010/12/31