

Developing Medical Genetics Education through Curriculum Reforms and Establishment of Postgraduate Training Programs (MedGen)

FINAL MEETING



MedGen

Summary Report of the Project Work Plan



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Project Coordinator



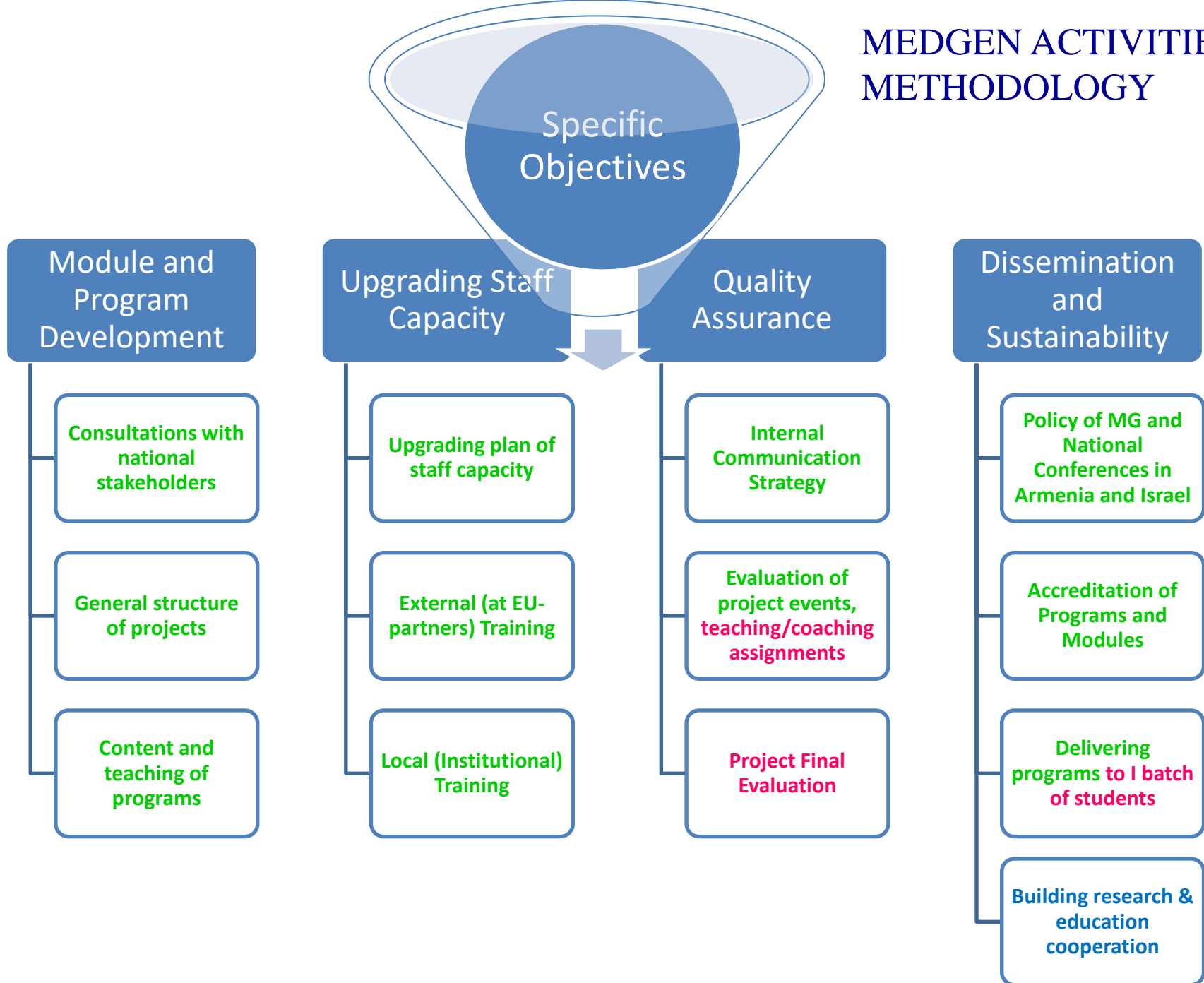
1 Residency Training program of Clinical Genetics – specialty Clinical Geneticist at YSMU

1 Module of Medical Genetics for Undergraduates at YSMU

3 Master programs of Genetic Counselling – specialty Genetics Counsellor at RAU, TAU, and TIIT



MEDGEN ACTIVITIES AND METHODOLOGY



MEDGEN 4 YEAR ACTIVITIES CHART

2014

2015

2016

2017

Activities	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
Kick-off meeting																																																		
National consultations with stakeholders																																																		
Elaborating and publishing student starting profile																																																		
Elaborating and publishing profile of graduates with SLO																																																		
The general structure of MG modules/programs																																																		
Organizing conference on development of MG programs																																																		
The content of MG modules and programs																																																		
Creating e-learning platform																																																		
The upgrading plan of staff capacity																																																		
Training teachers at EU partner universities																																																		
Conducting coaching and developing competence in teaching																																																		
Program QA and QQ																																																		
Developing, running and updating project website																																																		
Elaborating and publishing policy brief of MG																																																		
National conferences on MG																																																		
Printing brochures, posters, papers and organizing media events																																																		
Preparing accreditation documents																																																		
Publishing translated materials and purchasing equipment																																																		
Delivering MG programs and modules to I batch of students																																																		
Discussing, negotiating, signing cooperation agreements																																																		
Project Council meetings																																																		
Preparing and submitting mandatory reports to the EACEA																																																		

Del 1.1

Kick-Off Meeting

February 19-21, 2014,
Yerevan



Project Activities for the first 6 months
Partners Responsibilities, Duties, Tasks
Nominating WP Leaders
Grant Agreement and Partnership Agreement
Project Budget and Financial Issues
Managerial Issues
Project Council Meeting

Del 1.2

National Consultations

Circulating Questionnaire for National Stakeholders:

Students

Clinical Geneticists and Genetic Counselors

Health Care Center Authorities and Physicians

Health Care Center Authorities and Physicians

University Personnel

Health Care Authorities



May 21, 2014, Yerevan



April 10, 2014, Tel-Aviv

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Developing Medical Genetics Education Through Curriculum Reforms
And Establishment Of Postgraduate Training Programs

Student Starting Profile for Undergraduate
Medical/Biological Students
for Learning of Medical Genetics

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Student Starting Profile for MSc Program in Genetic Counseling

The student starting profile focuses on creating the core curriculum comprising essential knowledge, skills and attitudes to be acquired by students to allow them to work as genetic counselors.

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Policy Brief of Medical Genetic
Services in Armenia

Del 4.2 Policy brief of Medical Genetics

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Technion



Tel Aviv University



Tempus

Developing Medical Genetics Education
Through Curriculum Reforms and
Establishment of Postgraduate Training Programs

**Policy Brief of Medical Genetic
Services in Israel**

emphasizes the importance of
of human genetics and their
with a modern curriculum that
etic counselors in genomic



TEMPUS

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Developing Medical Genetics Education Through Curriculum Reforms
and Establishment of Postgraduate Training Programs

**Student Learning outcomes for MSc Program in Genetic
Counseling**

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Developing Medical Genetics Education Through Curriculum
Reforms And Establishment Of Postgraduate Training Programs



***Student Learning Outcomes for MSc Program in
Medical Genetics
And Graduate Profile for Residency Training
Program in Clinical Genetics
at Yerevan State Medical University after Mkhitar
Heratsi***



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Developing Medical Genetics Education Through Curriculum
Reforms And Establishment Of Postgraduate Training Programs

LEARNING OUTCOMES FOR GENETIC COUNSELLING MASTER OF SCIENCES PROGRAM AT RUSSIAN-ARMENIAN (SLAVONIC) UNIVERSITY

Four broad learning outcome areas in genetics, in which it is proposed that a graduate
genetic counsellor should attain by the end of their education, are shown below:

- 1: Communication skills
- 2: Professional skills
- 3: Counselling skills
- 4: Professional ethical values and skills

Del 1.5 The General structure of the modules and the programs

Working Methodology

Proposed Scheme of the developing Program Curriculum

Program Curriculum Each of the curriculum documents should be developed using a common format, ensuring a degree of consistency and approach across the spectrum of training	
Modules The modules are the broad fields which group common or related areas of learning (ex. Diagnostic Methods; Genetic Disorders and Diseases; Professional and Ethical Qualities)	
Themes The themes identify and link more specific aspects of learning into logical or related groups	
Learning Objectives The learning objectives should outline the specific requirements of learning of each module identifying and detailing the required knowledge, skills, and attitudes. They should provide also a context for specifying assessment standards and criteria, and a context for identifying teaching and learning strategies which will be discussed and developed after the Prague meeting (Deliverable 1.7).	
Knowledge <u>1., 2., 3., ...</u>	Skills <u>1., 2., 3., ...</u>
Clinical Training Clinical training should provide effective learning environments with different approaches (number of clinics per week, attendance to meetings, journal clubs, visit to labs with durations, etc.).	

Del 1.7 Elaborating the Content of Programs

February 2016: 2-year Genetic Counselling master programme – TIIT

May 2016: 2-year Genetic Counselling master programme – TAU

May 2016: 1.5-year Genetic Counselling fellowship programme – RAU

June 2016: Medical Genetics undergraduate course - YSMU

October 2016: Clinical Genetics residency programme - YSMU

WP2: Faculty Training

Del. 2.1: Training teachers at EU partner universities



April 2015. **PU:** Genetic Counselling
3 participants – YSMU & RAU

July 2015. **PU:** Genetic Counselling
10 participants – YSMU, RAU, TAU, TIIT

October 2015. **MUG:** Genetic&Genomic Diagnostics
2 participants - YSMU

November 2015. **CU:** Cytogenetics and IEM
2 participants - YSMU

November 2015. **UNIBO:** Cancer Genetics, NGS&Bioinform.
6 participants – YSMU, TAU, TIIT

September-October 2016.
UPD: Clinical Genetics and Genomic Diagnostics
8 participants – YSMU, RAU, TAU, TIIT

February 2017. **MUG:** Program QC, QA and Sustainability
4 participants – YSMU, TAU

October 2017. **TAU:** Clinical Laboratory Genetics
3 participants – YSMU

Partner Universities	EU Universities	Number of Participants
YSMU	UNIBO	3
YSMU	PU	5
YSMU	CU	2
YSMU	UPD	4
YSMU	TAU	3
YSMU	MUG	3
RAU	PU	3
RAU	UPD	1
TAU	UNIBO	2
TAU	PU	2
TAU	CU	0
TAU	UPD	3
TIIT	UNIBO	1
TIIT	PU	3
TIIT	CU	0
TIIT	UPD	2
TIIT	MUG	1
TOTAL		38

WP2: Faculty Training

Del. 2.2: Developing competence in partner universities

February 2016

TAU&TIIT

PU: Genetic Counselling

March-April 2016

YSMU

UNIBO: NGS Bioinformatics

April 2016

TAU&TIIT

UNIBO: NGS Bioinformatics

April 2016

YSMU&RAU

MUG: NGS Bioinformatics

CU: ID and Autism

PU: Genetic Counselling

EU Universities	Partner Universities	Number of Visited Teachers	Number of Participants
UNIBO	YSMU & RAU	2	6
UNIBO	TAU & TIIT	2	20
PU	YSMU & RAU	3	11
PU	TAU	3	10
PU	TIIT	3	25
CU	YSMU	3	6
CU	TAU & TIIT	0	0
MUG	YSMU & RAU	1	6
TOTAL		17	84

WP4: Dissemination of Project Results



Del. 4.3: National conferences on Medical Genetics

June 11 2015

The Rapaport Faculty of Medicine, Technion, Haifa, Israel

The Israeli Society of Medical Genetics

National meeting in: Medical Genetics-facing the year 2020

November 4, 2017

Yerevan State Medical University

&

Center of Medical Genetics and Primary Health Care

National Medical Genetics Day

Del. 4.4: Promotional materials and publications

YSMU

MedGen Fliers distributed during 4 different national events in Armenia

25 TV programmes

ESHG 2016 Poster

WP5: Exploitation of project results and provision of sustainability

Del 5.1: Accreditation of Programs

TIIT
February 2016
Master Program of Genetic Counselling
Approved ongoing program, licensed by the TIIT and high Israeli Counsel

TAU
May 2016
The accreditation obtained for the new program for a MSc in Genetic Counseling
Delivery since October 2016

RAU
May 2017
The license for a new program in Medical Genetics and Genetic Counselling
Delivery since January 2018

YSMU
June 2017
The accreditation for a new subspecialty residency program in Clinical Genetics
Delivery since September 2018

WP5: Exploitation of project results and provision of sustainability

Del 5.2: Launch of programs and international cooperation

1. Publishing Learning Materials

YSMU

2015

Familial Mediterranean Fever
Autoinflammatory Disorders

2016

Prenatal and Preimplantation Diagnosis and Screening

2017

Cancer Clinical Genetics

WP5: Exploitation of project results and provision of sustainability

Del 5.2: Launch of programs and international cooperation

2. Purchasing equipment

Procurement of all equipment was approved by the EC.

Partner Universities	Equipment (€)
YSMU	84000
RAU	47000
TAU	48000
TIIT	48000

3. E-Learning System

3 universities – YSMU, TAU, RAU developed own e-learning systems

Del. 6.3: Mandatory reports

Intermediate report submitted on 03 June 2015

Approved on 06 August 2015

Final Report, including the detailed Financial Report
by January 31, 2018



! Part of the Technical Report will be
available on the Project Web-site

PREPARING FOR PROJECT REPORTS

During November 2017 – January 2018

Description of Activities: All Participants

Description of Results: YSMU, RAU, TAU, TIIT

FINANCIAL MANAGEMENT

Budget was revised (but not cut) and re-allocated between partners by their agreement during the KOM

I installment was transferred to all partners

The remaining part is action-paid

Partner	Staff costs	Travel costs & costs of stay	Equipment	Printing & Publishing	Other costs	Total eligible DIRECT COSTS	INDIRECT COSTS	TOTAL ELIGIBLE Costs	Tempus Grant (90%)	Co-financing (10%)	I Installment 60%
YSMU	42940	36429.68	84000	7900	28900	200169.7	14011.87	214182	192763	21418.2	115638
RAU	9500	8913.72	47000	3000	6000	74413.72	5208.96	79622.7	71660.4	7962.27	42988.7
TAU	60516.6	16927.44	48000	4500	10500	140444	9831.08	150275	135248	15027.5	81134.3
TIIT	56462.6	17201.44	48000	3500	6000	131164	9181.48	140346	126311	14034.6	75773.3
UNIBO	29401	17466.84	0	0	0	46867.84	3280.75	50148.6	45133.7	5014.86	27075.5
UOP	32366.7	18724.84	0	0	0	51091.54	3576.41	54668	49201.2	5466.79	29515.5
CU	11496	14074.84	0	0	0	25570.84	1789.96	27360.8	24624.7	2736.08	14772.2
MUG	18487.5	15136	0	0	0	33623.5	2353.65	35977.2	32379.4	3597.71	19424.3
UPD	32727.5	17382.84	0	0	0	50110.34	3507.72	53618.1	48256.3	5361.81	28948.7
EUROTEX	10948	7022	0	0	0	17970	1257.9	19227.9	17305.1	1922.79	10381.2
	304846	169280	227000	18900	51400	771426	53999.8	825425	742883	82542.5	445651

THANKS FOR ATTENTION



Thank You

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