

Medical Physicists Certification Process and Examination in the Middle East

Ibrahim Duhaini

Adel Mohamed

ACMP 2010

Contents

- Current certifying organizations / bodies
- Requirements to set for the certifying exam
- What are Types of Exams
- Proposals of Exam models
- Questions preparations
- Re-examination criteria

Current Status

Clinical Practice:

High demand on MP

Most MP with BSc

Most MP un-certified

National Bodies
For Accreditation
Of MP:

NONE

National Regulations
For Qualifications:

NONE

Academic
programs:

3 BSc

2 MSc

Challenges in ME region

1. Education and Training of MP

- a. Number and level (undergraduate vs graduate) of academic programs in the region.
- b. Quality of the programs
- c. Availability of clinical training.
- d. Quality of training.

INT 6/054

Vienna, May 09

**Working Group #2: Academic Programs and
Clinical Training of MP**

“Identify gaps in education and training and
develop/harmonize educational materials as needed”

Challenges in ME Region

2. Recognition of the profession of Medical physics at the national level



Lack of recognition:

Lack of available positions

Type of positions and job descriptions

Salary

Lower satisfaction of MP

INT 6/054

Vienna, May 09

Working Group #2: Roles and responsibilities of clinical MP

“Internationally endorsed roles and responsibilities of MP and requirements for education and training, including clinical requirements”

INT 6/054

Vienna, May 09

Working Group #3: Recognition of the profession of Medical physics

“Raise awareness and recognition of MP as a
healthcare profession”

Challenges in ME Region

3. Accreditation of academic and training programs.

- Role for the MEFOMP.
- Utilize recommendations from INT 6/054
- Establish a regional certification body

CALL for ACTION



1. Strengthen number and level of academic programs -> Harmonize courses throughout the region?
2. Regulations for clinical training.
3. Regulate and harmonize qualifications of clinical MP (IBMP and MEFOMP)

Existing Certifying

Usually the Medical Physicists are employed based on a locally arranged licensing scheme without going through the process of examination.

- King Faisal Specialist Hospital in collaboration with the IPEM.

The criteria to set for the exam

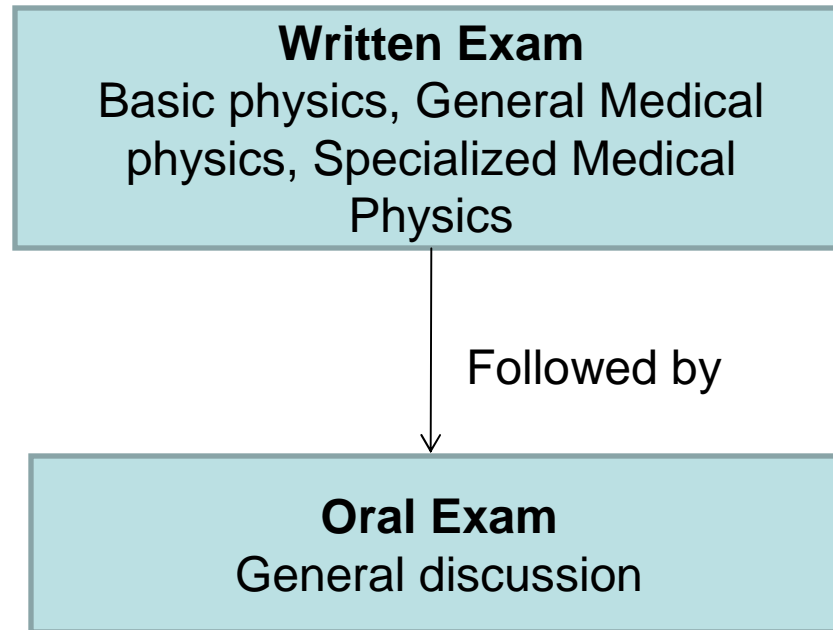
- M.Sc. or equivalent advanced degree in Medical Physics from an accredited university.
- Two years of professional experience or training in hospital.

Types of Exam Questions

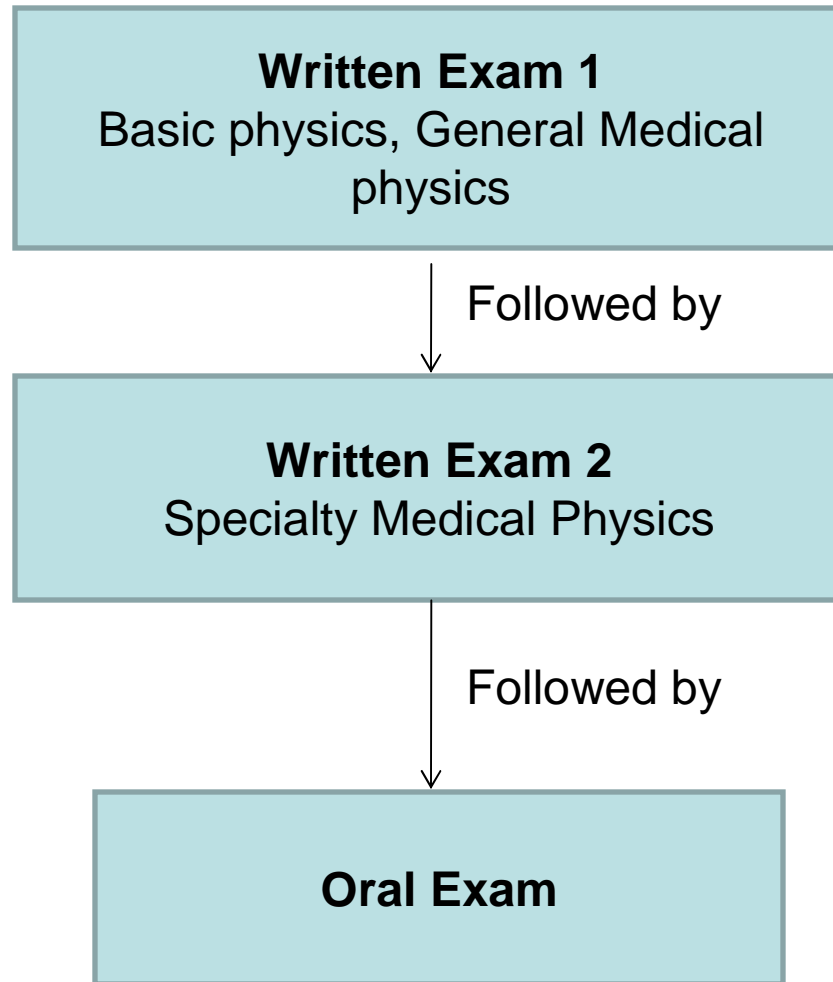
- Written
 - General basic physics
 - General Medical Physics
 - Specialized : radiotherapy, diagnostic, nuclear medicine
- Oral
 - Basic Physics and medical physics
 - Interests
- Practical

Exam Models

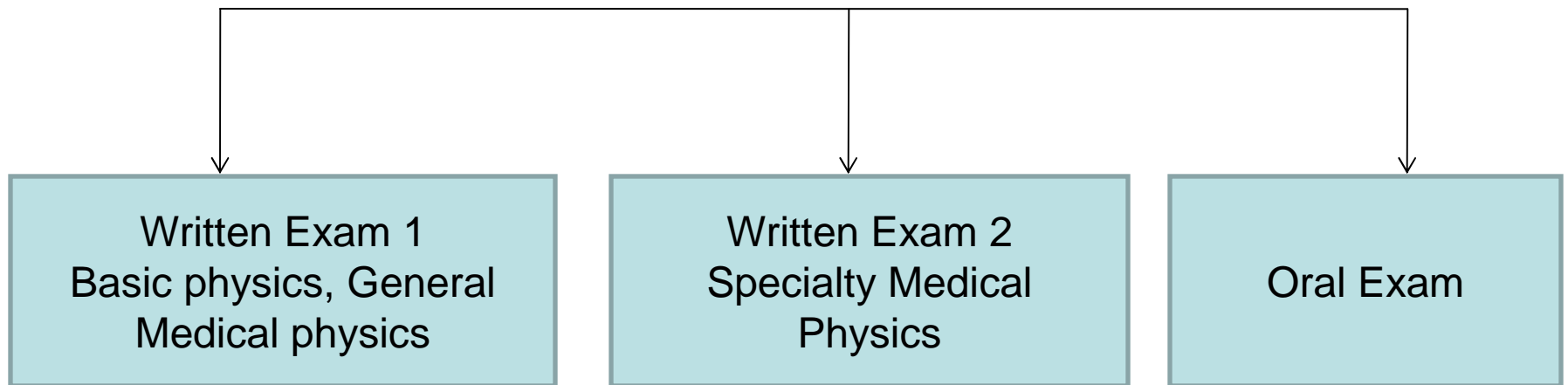
Model 1



Model 2



Model 3



Pass / Fail Criteria for models

- Minimum % Percentage or scores required to each part.
- Model 1, chronologic order
- Model 2, same as Model1
- Model 3, all exams done in parallel, the average % or scores is considered.

Re-examination Criteria

- In Model 1 & 2 the candidate has to repeat the exam upon failure of each part before proceeding to the next part.
- In Model 3, the candidate will repeat the part that failed in only, and if the failure repeated for the second time, the has to repeat the entire all three parts.

Thank You