



Medical Physics certification in Africa

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Current status is widely varied



- SAF: highly developed system including annual re-licensing and CPD compliance and auditing. Highly regulated. Medical physicists are part of the Medical and Dental Board (Medical Science Committee including Medical Biological Scientists and Genetic Counsellors).
- GHA: well developed system
- NAM, KEN and BOT recognizes SAF (and other?) system.
- GHA and ZIM: Registration with Allied Health Board
- Overseas qualifications accepted
- Several countries have academic programmes

Regional Initiatives

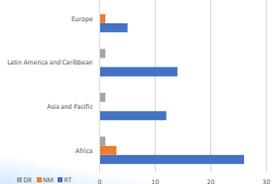


- Professional societies (FAMPO survey)
 - CMR, EGY, GHA, KEN, NER, NIR, MOR, SAF, TUN and UGA
 - This is based on a survey conducted by FAMPO but we are unsure of the validity of the information.
 - No known intra-regional cooperation
- National initiatives to introduce structured clinical training
 - ALG, ETH, KEN, MAR, MOR, NIR, SUD, TUN, UGA, ZAM, ZIM

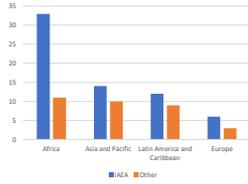
IAEA support of the MMP



Thesis topics of MMP graduates per Region



MMP fellows: sponsor per Region



The survey of MMP graduates



The survey aimed at evaluating the results of the programme in terms of capacity building. In particular the following points were investigated:

- rate of graduates returning to their home country (best-case scenario) or returning to the same Region
- rate of graduates working as clinical medical physicists or working in a non-clinical environment, but in an area related to medical physics
- local recognition of the MMP degree
- status of medical physics in the graduates' countries (indicators: existence of professional association, certification process and CPD credits) and graduates involvement in such professional activities
- graduates' degree of appreciation of the programme
- use of educational material or knowledge acquired during the MMP in their current profession

Certification (global survey 2017)

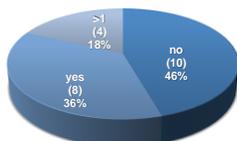
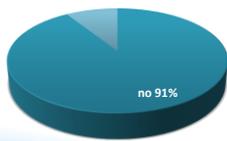


Availability of national certification process

Existence of a national professional association

Certification available?

National professional association?



Recognition and harmonization of the profession

Proposed structure of a certification body



- Executive (strategic, communication, finances and administrative)
- Governance (legislative and ethics)
- Operational (assessment criteria, accreditation, CPD)
- Assessment committee
- Appeals
- Preferably embodied within an existing Health professions council

Draft IAEA publication: *Guidelines for the certification of Clinically Qualified Medical Physicists (2020)*

AMPLE: IAEA e-learning



Cyber Learning Platform for Nuclear Education and Training (CLP4NET)

Advanced Medical Physics Learning Environment (AMPLE) is an e-learning programme run by IAEA under a RCA project named "Strengthening the effectiveness and extent of medical physics education and training"



Groups in AMPLE



The purpose of the "groups" is to maintain confidentiality (e.g. residents work and grades). Groups also facilitate collaboration among "roles".

For example groups of:

- Resident
- Clinical Supervisor
- National Speciality Coordinator
- National Program Coordinator

Groups in proposed Certification Platform



The purpose of the "groups" is to maintain confidentiality (e.g. registrants and assessors). Groups also facilitate collaboration among "roles".

For example groups of:

- Administrators
- Assessors, executive
- Registrants (role of voluntary, fully and partially certified professionals)
- National Program Coordinator
- Access to CPD activities (online)

FAMPO initiative with coordination by IAEA

Conclusion



- Diverse situation
- The acceptance of a clinical training programme as a competency-based initiative is a difficulty for many authorities. The FAMPO initiative may encourage recognition.
- Adapting the guidelines has led to some success in Africa
- The ICTP MMP programme has yielded encouraging results albeit not a perfect solution
- Imaging medical physics is lagging
