

# Curriculum Vita



## Personal Information

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South Egypt Cancer Institute, Assiut University.  
Assiut – Egypt.

## Qualifications

Dec. 2010 Doctor of Philosophy, The University of Manchester, United Kingdoms.  
Thesis title: The Application of Positron Emission Tomography in Radiotherapy  
Treatment Planning  
Sep. 2003 Master Degree in Physics, Assiut University -Egypt.  
Thesis title: Radiographic Film and Ionization Chamber Dosimetric  
Measurements  
Sep. 2000 Medical Physics Diploma, Assiut University, Assiut, Egypt.  
Nov. 1998 Bachelors of Science, Physics and Mathematics, Assiut University, Assiut, Egypt.

## Career History

Since Feb. 2011 Lecturer of Medical Physics, South Egypt Cancer Institute, Assiut  
University, Assiut, Egypt.  
Dec. 2007 – Dec. 2010 Honorary research fellow, North Western Medical Physics. The  
Christie Hospital, Manchester, UK.  
Nov. 2006 – Apr. 2007 Visitor fellowship in Centre Antoine Lacassagne, Nice, France.  
Jan. 2005 – Feb. 2011 Assistant Lecturer of Medical Physics, South Egypt Cancer  
Institute, Assiut University, Assiut, Egypt.  
Nov. 1998 – Jan. 2005 Medical Physics Specialist, South Egypt Cancer Institute, Assiut  
University, Assiut, Egypt.

## Computer skills

Programming language C++, Matlab, IDL, Fortran and Basic.  
Drawing SW Paint Shop and Harvard  
Programs MathCAD and Mathematical  
Ms office XP Word, Excel, Access, Outlook And Power point

## Training Courses

12 Sep. 2007 "Publish or Perish: How to Survive the Review Process", The University of  
Manchester, Manchester, UK.  
4 Jul. 2007 "Introduction to Qualitative Research Methodology", The University of  
Manchester, Manchester, UK.  
9 Feb. 2007 "Effective Academic Writing", The University of Manchester, Manchester,  
UK.  
6 Feb. 2007 "Effective Presentation skills", The University of Manchester, Manchester,  
UK.  
20-24 Sep. 2004 The IAEA training course in "Codes of practice in dosimetry",  
Johannesburg, South Africa.  
7-11 Jul. 2003 The IAEA training course in "Quality control of orthovoltage x-ray units  
and simulators", Accra, Ghana.  
23-27 Feb. 2003 "AAPM international scientific exchange course on advances in diagnostic  
radiology and nuclear medicine physics" Nasser Institute Hospital, Cairo,  
Egypt.

- 16-17 Dec. 2002 "First Egyptian national seminar on radiation physics" Egyptian Atomic Energy Authority/ AFRA project RAF/6/27, Cairo, Egypt.
- 19-24 Feb. 2008  
13-18 Jan. 2001 First and Second "Applied Radiation Physics and Radiotherapy Planning Course, Continuous Medical Education (CME)" International Cancer Institute, Cairo, Egypt.
- 30 Oct.-1 Dec. 1999 "Using radiation isotopes and ionizing radiation protection" Egyptian Atomic Energy Authority, Cairo, Egypt.

### Job Expertise

- Automated and semi-automated target volume delineation.
- Use and quality assurance and of PET and PET/CT.
- Radiation dosimetry and study of dynamic fields' characteristics like virtual or enhanced dynamic wedge and intensity modulator radiation therapy.
- Study the new treatment planning techniques.
- Three dimensional and intensity modulated radiation therapy treatment planning.
- Virtual simulation in deferent cancer diseases.
- Brachytherapy quality assurance and treatment planning.
- Understanding and teaching the treatment planning techniques
- Radiation protection.

### Publications

**M. Aly**, P. Julyan, C. Rowbottom, B. Yap, M. Harris, D. Hastings (2010) PET/CT lesion delineation for RTP using a novel Volume and Contrast Adjusted Thresholding (VCAT) method. Radiotherapy and Oncology 94: S37

D.L. Hastings, **M.M. Aly**, P.J. Julyan, C.G. Rowbottom, B.k. Yap, M.A. Harris (2009) A novel method for automated tumour delineation on PET/CT for radiotherapy treatment planning. Nuklearmedizin 48: A146

H. Abbas, P. Y. Bondiau, G. Malandain, S. El Said, G. Madelis, **M. Omran**, S. Marcié, J. P. Gérard, R. J. Bensadoun (2007) From Manual to Automatic Contouring in Head and Neck Cancer for Intensity Modulated Radiation Therapy. International Journal of Radiation Oncology\*Biophysics, Volume 69, Issue 3, Supplement 1, 1 November 2007, Pages S461-S462.

A. El-Attar, A. El-Kamel, M. Hefny, and **M.M. Aly** (2004) Radiographic Film and Ionization Chamber Dosimetric Measurements; Arab Journal of Nuclear Sciences and Applications, Volume 39 Part II.

M. Ali, A. Saleh, and **M.M. Aly** (2001) Calculation for extra wall shielding for 15MV clinical Linac; Arab Journal of Nuclear Sciences and Applications, Volume 34 Part I.

### Abstracts of Presentations

**Moamen M. Aly**, Peter J. Julyan, Carl G. Rowbottom, Beng K. Yap, Margaret A. Harris and David L. Hastings (2010) A new semi-automated method for FDG-PET lesion delineation for radiotherapy treatment planning. Uses of PET in Radiotherapy, Institute of Physics and Engineering in Medicine, London.

**Moamen M. Aly** (2003) Introduction to the Role of Medical Physics in Radiotherapy Department in South Egypt Cancer Institute. Workshop on Material Science and Radiation Physic, Faculty of Science, Assiut University, Assiut, Egypt.

### References

National and international references are available upon request.