

# MPPG #7 – Supervision of Medical Physicist Assistants

J. Anthony Seibert, Chair, TG259

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#### To understand the

- 1. reasoning and need for MPPG #7
- 2. supervision responsibilities of the QMP
- 3. responsibilities of the MPA
- 4. responsibilities of the Facility Administrator
- 5. rationale of staffing ratios: MPA FTE to QMP FTE

## History and evolution of MPPG #7...

Presidential ad-hoc committee initiated in 2011

Charge: Determine what procedures and tasks the Diagnostic (Dx) QMP needs to personally perform in terms of clinical practice. Determine "allowable" procedures and tasks performed by an unqualified assistant under the supervision of the Dx QMP. The level of supervision, direct or general, for each task not performed by the QMP must be explicitly described. Define types of supervision for different circumstances and tasks.

AAPM Ad Hoc Committee on Defining the Diagnostic QMP Practice Model
Committee Charge
Dreft 5/31/2011

Draft 5/3/2011

Proposed Membership: Tony Seibert (chair), Jessica Clement, Per Halvorsen, Mike Herman, Doug Pfeiffer, Bob Pizzutiello, Beth Schueler, Jeff Shepard

TG243 – expanded scope of ad-hoc committee	
10245 — expanded scope of au-noc committee	
• Initiation: January 14, 2013	
<ul> <li>Inclusion: Diagnostic, Nuclear, and Therapeutic Medical Physics</li> <li>Focus: "Levels of Supervision in Clinical Medical Physics"</li> </ul>	
Charge: Produce a Medical Physics Practice Guideline defining the role of the QMP for supervisory oversight of the Medical Physics	
student, the Medical Physics resident, and Quality Assurance Assistant for designated medical physics tasks and concurrent	
responsibilities of each party	
<ul> <li>Outcome: Initial draft (July 2013) created a storm of discussion at the annual meeting, chiefly related to recognition of non-physicists</li> </ul>	
Redirection – TG243	
• Focus: only on medical physicists who are in or have completed	
formal MP education programs	
Defined target group:     Medical Physicist in Training	
Medical Physics Student Medical Physics Resident	
• Removed:	
The "Quality Assurance Assistant" aka "Medical Physicist Assistant"	
Outcome – TG243	
JOURNAL OF APPLIED CLINICAL MEDICAL PHYSICS, VOLUME 16, NUMBER 3, 2015	
AAPM Medical Physics Practice Guideline 3.a: Levels of supervision for medical physicists in clinical training	
Task Group Authors: J. Anthony Seibert, Chair, Jessica B. Clements, Per H. Halvorsen, Michael G. Herman, Melissa C. Martin, Jatinder Palta,	
Douglas E. Pfeiffer, Robert J. Pizzutiello Jr., Beth A. Schueler, S. Jeff Shepard, Lynne A. Fairobent, AAPM Staff	
New currently ortablishing committee for region and a MODE Experience and	
Now currently establishing committee for review under MPPG 5-year revision cycle	

What about the QA Tech / MPA?	
What about the QA rechy MFA:	
Who? Individuals who completed MP training program but unable to complete the process for QMP status	
Technologists / Therapists interested in MP tasks who provide QC services	
Individuals from other related fields (Health Physics, Clinical Engineering, vendor service personnel)	
Off-the-street entrepreneurs	
NO GUIDELINES for supervision of these personnel	
TG259	
Task Group No. 259 - MPPG #7 Medical Physics Extenders  Charge Determine what procedures and tasks can be delegated by a QMP to a  Medical Physicist Assistant in the clinical setting. Determine "allowable"	
procedures and tasks performed by an unqualified assistant under the supervision of the QMP. The level of supervision, direct or general, for each	
task not performed by the QMP must be explicitly described. Define types of supervision for different circumstances and tasks.	
Approved Start: 3/14/2014 Date(s)	
Quality Assurance Assistant (& other names) → Medical Physicist Assistant	
A framework established from TG243	
Face to face meeting in January 2015	
Basic structure of document produced	
<ul> <li>Recognizing the differences in practice for DX, NM, TX disciplines—</li> <li>Initial draft: No more than 4 FTE MPA per FTE QMP for DX, NM</li> </ul>	
No more than ¼ FTE MPA per FTE QMP for TX	
Most discussed / contentious issue:	
The number of FTE MPAs that can be supervised by a QMP	

Feedback and comments	
Just by recognizing the "MPA" we are legitimizing their existence	
A difference of 16:1 between DX and TX practice is too much	
I am really concerned about the 4:1 ratio for DX supervision	
Consulting groups with 10 QMPs can hire 40 assistants and take over all private consulting physics services – cheaply	
Take a lesson from the Medical Dosimetrists – physics services to non- physicists – now there are more dosimetrists than physicists!	
We are creating less QMPs and opening the market for MPAs	
MS medical physicists are being replaced by MPAs	
Reality check	
"Physicist Assistants" (under many names) have been around for a	
long time and will continue to be	
States are now enacting statutes recognizing existence of MPAs	
It is time for the AAPM to step up and create practice guidelines for	
regulators to consider when enacting state policies and regulations	
It would be a mistake to ignore the situation	
What's happening in states?	
New Jersey has existing policies for the MPA in Diagnostic Medical Physics,	
limited to Radiography and Fluoroscopy	
<ul> <li>These individuals must be certified by the state, which requires minimum qualifications for certification as "Qualified MPA in radiography" or "Qualified</li> </ul>	
MPA in Fluoroscopy"	
Taxas has proposed amondments to existing regulations to every the con-	
Texas has proposed amendments to existing regulations to recognize the use of assistants by medical physicists licensed in specialties of diagnostic radiological	
physics, medical nuclear physics, and medical health physics	

Other discussion	
POINT/COUNTERPOINT	
Seggestions for topics missible for these Posicionsoropoins debases sould be addressed to Colia. Comm. Programs Eurotius, Niembo Sikoo University, Destruct, servende Commandant. Person garriedoring in Princid Conserving discussions are solvered for their handelege and communicate abili. Their positions for or against a programation may or may not reflect their personal opinions or the partitions of other analyses.	
Medical physicist assistants are a bad idea	
Dorso, P. Fontenia, Ph.D. Dipposent of Medical Mexics, Memorical Stone-Sentering Cancer Center, New York, New York, 10085-6007 (Re. 212-639-8798, Leantl. device)-@earthlink.net)	
Gary A. Ezzell, Ph.D. Radiation Oncology, Mayo Clinic Arizona, Phoenix, Arizona 85054 (Tet. 480-301-541; Email: Ezzell Clary@mayo.cdu)	
Colin G. Orton, Ph.D., Moderator	
(Received 29 October 2015; accepted for publication 1 November 2015; published 15 December 2015)	
MedPhys Listserver	
BBS: "Medical physicist assistants are a bad idea"	
Summary of Issest/Concerns  QMP v. MPA scope of practice  • Are MPAs necessary?	
Implication on profession of medical physics     Supervision     MPAs v: medical dosimetrists     Psy scales for medical dosimetrists     Psy scales for medical dosimetrists, MPA, QMPs	
BBS Thread: Physics Assistant Responsibilities	
Summary Concerns/Points:  1. Roles and Responsibilities of MPA	
2. Consequent of the consequence of determine of the consequence of t	
5. Training requirements to be an MPA 6. MPA v. modical dosimetrist 7. Reimbursement (suses	
Back to the drawing board	
TVO L	
EXCOM does not approve submitted document	
Refinement needed	
Staffing ratio issues to be sorted out	
What happens when QMP vacates position?	

The	Final	Push	
1110			•••

Face to face meeting, AAPM HQ, February 2018

- Adjusted definitions, refined the document, and came to terms with numbers
   Completed document and sent to membership for review and comments

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- 1. Introduction
- 2. Definitions
- 3. Education and Training
- 4. Responsibilities of the QMP
- 5. Responsibilities of the MPA
- 6. Responsibilities of the Facility Administrator
- 7. Staffing
- 8. Competency
- 9. Conclusions

Appendices

# Highlights

### **Definitions**

Medical Physicist Assistant (MPA) – An individual (e.g., radiologic technologist, medical dosimetrist, field service engineer) performing assigned tasks under the supervision and responsibility of a QMP. Expected requirements are defined by AAPM Professional Policy 29.

Education and training
The QMP has responsibility for determining and justifying that the education and training requirements of the MPA are commensurate with the task(s) assigned.
The AAPM'S Professional Policy 29 defines educational requirements for MPAs.

AAPM Professional Policy 29-A	
Medical Physicist Assistants: Task Delegation and Supervision	
viculcal Physicist Assistants. Task Delegation and Supervision	
The Medical Physicist Assistant (MPA) is an individual who has completed elevant didactic education (Bachelor's or higher college degree from an	
ccredited college or university and/or certification as a Radiologic echnologist or Radiation Therapist) and has attained practical clinical	
nedical physics knowledge through specific training and technical experience in a program supervised by a QMP."	
Highlights	
Responsibilities of the QMP	
A supervision plan must be developed by the QMP in accordance with the AAPM Scope of Practice for Clinical Medical Physics. The QMP must review all tasks and	
sign all work products of the MPA. Responsibilities of the MPA	
The MPA must not accept a task that is outside the approved supervision plan, or otherwise agree to a supervision plan that requires tasks outside the MPA's	
documented qualifications and competency. Responsibilities of the Facility Administrator	
The facility administrator must understand that the MPA may not work independently, nor provide work product that is not signed by a properly	
designated QMP.	
Highlights	
Staffing Table 1: Medical Physicist Assistant Supervision Ratios	
Practice Maximum FTE MPA per clinical FTE QMP	
Diagnostic Medical Physics   1	
It is inappropriate to use an MPA in a practice setting with less than 1 FTE QMP	
It is inappropriate to use an MPA in a practice setting with less than 1 FTE QMP per location. The MPA must have access on a daily basis to the supervising QMP.  Other ratios may be used, provided a clear determination of need is presented,	
Other ratios may be used, provided a clear determination or need is presented, in conjunction with documented justification. The supervising QMP must have one-on-one contact with each MPA on a routine and frequent basis.	

Highlights	
Highlights	
Competency	
QMP designs and implements structure for MPA to demonstrate abilities	
Task-specific expectations of competency formally defined	
MPA must demonstrate consistent, correct, and accurate performance of each task	-
Requires initial personal supervision to establish competence	
Conclusions	
Conclusions	
1. When an organization employs an MPA, it is the responsibility of the QMP to	-
inform the healthcare organization of the need for a supervision plan and its requirements.	
<ol><li>Facility administrators are advised to review the use of an MPA with the managing QMP.</li></ol>	
<ol><li>A QMP must only assign tasks having low risk of harm to the patient, personnel, and the public consistent with MPPG 10, Scope of Practice for</li></ol>	
Clinical Medical Physics.	
<ol><li>The supervision level for the assigned task must be based on the risk level of the task and the competency level of the MPA.</li></ol>	
Appendices	
Sample supervision plans: Therapy, Nuclear, & Diagnostic Medical Physics	
Table Al. A Sample—Detailed Therapy Model of Psycholor Sepectation Flow  Imple — Small Temper Model Psycholor Sepectation Flow  Imple — Mark Al. 20  Inches — Inches — Inches Al. 20  Inches — Inches — Inches — Inches Al. 20  Inches — Inches Al. 20  Inches — Inch	
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Current status of MPPG 7 document	
current status of Will 1 G 7 document	
Approved by EXCOM     Submitted to JACMP	
Currently under review	
Overtiers and Comments	
Questions and Comments	
<ul><li>Stay tuned!</li><li>Thanks to the rapid implementation of MPPG #10 – Scope of Practice</li></ul>	
<ul> <li>Thanks to the diligence and hard work of TG259 members</li> <li>Thanks to Nick Wingreen, AAPM staff</li> </ul>	