



**The European Federation of Organisations for Medical Physics**

Domus Medica, Mercatorlaan 1200, Utrecht, NL  
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**PROPOSAL FOR A NEW WORKING GROUP (WG)**

<b>Name of WG<sup>1</sup>:</b>	Quality controls in conventional and solid state detector gamma cameras
<b>Parent Committee(s)<sup>2</sup>:</b>	Science Committee
<b>Keywords<sup>3</sup>:</b>	gamma camera, solid state detector, quality controls, standardization
<b>Chair(s)<sup>4</sup>:</b>	Suggested chair: Laetitia Imbert
<b>Expected outcome<sup>5</sup>:</b>	Definition of Guidelines for routine Quality Controls procedures for conventional and solid state detector gamma cameras (both dedicated cardiac cameras and more recently introduced general purpose cameras), to provide reference values and tolerances.
<b>Target audience<sup>6</sup>:</b>	Medical Physics
<b>Rationale<sup>7</sup>:</b>	<p>The literature on routine Quality Controls procedures for conventional gamma cameras is out-of-date or no more valid. No quality control guidelines even exists for solid state gamma cameras (both dedicated cardiac cameras and more recently introduced general purpose cameras), which need a specific and dedicated approach in the definition of routine quality control tests.</p> <p>Thus, there is a demanding need for guidelines that identify a set of routine quality controls to perform on both up-to-date conventional and solid state detector gamma cameras. The set of quality controls devised should have the characteristics of being simple and easy to realize.</p> <p>Reference and tolerance values will also be defined.</p> <p>The execution of these QC would guarantee the operation of conventional and solid state detector gamma cameras under optimal conditions ensuring the best performance in routine clinical tasks.</p>
<b>Coordination<sup>8</sup>:</b>	EFOMP Science Committee

*This proposal form must be filled by the EFOMP parent committee chair.*

<b>Category:</b>	WGs are classified into the following categories depending on their topic and purpose. Please choose the most appropriate.
	<b>New Horizons.</b> The topic involves new scientific developments, methods, technology or clinical applications that have not yet emerged into clinical practice.
<b>X</b>	<b>State of Art.</b> The topic involves codes of practice, protocols, recommendations or guidelines for activity which are expected to become enduring practice.
	<b>Focus Area.</b> The topic involves certain specific area of clinical interest, modality or method which may include a technical or methodological challenge to be solved.



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	<b>Educational or Informational.</b> The topic involves education or informing the members in a relevant area of clinical practise, technology, methods, research or training.
	<b>Consensus Document.</b> The topic involves a consensus of the medical physics community on a certain area of interest that the EFOMP will endorse. This category may include e.g. safety issues or professional issues.
<b>Members<sup>9</sup>:</b>	Members will be nominated according to EFOMP official policy, after the announcement and recruitment procedure.
<b>Consultants/Observers<sup>10</sup>:</b>	The call for WG members may also produce consultants and observers.
<b>Funding<sup>11</sup>:</b>	EFOMP will sponsor two WG face-to-face meetings over a two year period, the WG will use the teleconferencing facility of EFOMP for online meetings. 10 members, 500 EUR / member / meeting (10 kEUR for those 2 years)
<b>Timeline<sup>12</sup>:</b>	1. Revision of existing literature (2 months) 2. Analysis of specific QC procedure required by manufacturers (2 months) 3. Identify a set of QC and develop eventual new phantoms (4 months) 4. Perform the identified QC on up-to-date conventional and solid state detector gamma cameras (12 months) 5. Preparation of the Guidelines (4 months)
<b>Proposed outline of the final report<sup>13</sup>:</b>	Introduction, literature overview, current practices, recommendations.

**Legend**

- 1) **Name of WG** - Including an indication of the WG type - i.e. if the WG will be a Joint WG.
- 2) **Parent Committee(s)** - Relevant EFOMP Committee.
- 3) **Keywords** - include at least 3 keywords.
- 4) **Chair(s)** - The chair of the parent committee will propose the chair of the WG.
- 5) **Expected outcome** - Description of the relevant results expected from the WG.
- 6) **Target audience** - e.g. Medical Physicists, Vendors.
- 7) **Rationale** - What is the justification and need for the proposed WG.
- 8) **Coordination** - The parent committee chair has to specify if there is a coordination or collaboration with other EFOMP Committees, WGs and/or scientific organisations.



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- 9) **Members** - Proposed list of active members based on the feedback on the WG announcement from NMOs, potentially interested experts within the medical physics community and the EFOMP Board will be composed by the parent committee chair together with the proposed WG chair. The proposed member list has to be approved by the EFOMP Board. WG members have to create an efficient and optimal composition of expertise and professional coverage. WG members can be updated also later if and when needed.
- 10) **Consultants/Observers** - Proposed other WG participants who are indicated as consultants or observers. The parent committee chair together with the proposed WG chair will identify possible consultants/observers.
- 11) **Funding** - Description of the WG funding needs (meetings, etc.) and how the finances will be acquired and managed. This part is optional and can also be zero.
- 12) **Timeline** - WG timetable described by main milestones and reporting. Interim progress reporting must be provided at least in 6 months intervals.
- 13) **Proposed outline of the final report** - What should be included in order to reach the planned outcome.