TG 109

Members of the TG
and their core competences

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TG 109
Diffusion and stakeholder involvement

Consultation until August 11, 2023
Mandate of the TG

- To develop an ICRP publication presenting the ethical aspects in the use of radiation in medicine

  • build upon Publication 138
We have to be modest

values made explicit only in 2018

Annals of the ICRP
ICRP Publication 138
Ethical Foundations of the System of Radiological Protection

long explicit history & living culture of ethics

what is already there

specificities of RP
Purpose of the report

- **Bridge the gap** between the communities in terms of ethics
- build on P 138

medical community

RP community
1. Introduction and goals

2. Ethics in RP
   2.1. Background: Ethics in RP and RP in Medicine
   2.2. The Interpretation of Ethical Values in RP and in Biomedical Ethics

Outline TG109

Friedo Zölzer
Pairing the values

Radiological protection

Biomedical ethics

Benificience
Non-maleficence

Justice

Dignity

Prudence

Five core values

Inclusiveness
Accountability / Transparency

Other principles

Solidarity
Precaution
Empathy
Honesty

Four principles

Beneficience
Non-maleficence

Justice

Autonomy
Pairing the values

radiological protection

biomedical ethics

beneficence & non-maleficence

justice & solidarity

dignity & autonomy

prudence & precaution

inclusiveness & empathy

accountability / transparency & honesty
Outline TG109

1. Introduction and goals

2. Ethics in RP

3. Practical developments in biomedical ethics

4. Medical use of radiation relevant to ethical clinical decision-making
   4.1. Basics of medical radiological protection and its links to ethics
   4.2. Ethical values particularly present in medical radiological protection
for those who know more about ethics
For those who know more about biomedical ethics than RP

**Stochastic effects & Tissue reactions**
- classical RP subject
- with an ethical approach
- precautionary principle
- dose threshold

**Particular factors affecting radiation sensitivity**
- age and sex
- individual sensitivity

**Uncertainties**
- of the dose received
- of the risk associated to the dose
- integrating them to education & training
for those who
know more about RP
Special aspects of medical use of radiation

- deliberate exposure
- voluntary (informed consent)
- demography (different than usual RP population)

Medical ethics and application of the principles of RP

- justification
- optimization
- level of efficacy (image quality)
Outline TG109

1. Introduction and goals
2. Ethics in RP
3. Practical developments in biomedical ethics
4. Medical use of radiation relevant to ethical clinical decision-making
5. Reviewing practice from an ethical perspective
   - 5.1. Evaluation method of ethical values of scenarios
   - 5.2. Sentiizing questions

Lynette Reid
Evaluation method

one-page scenario

Description of the scenario

Table of compliance

Proposed analysis of scenario and justification of the table
Scenarios covering many practical situations

11 in imaging procedures

10 in therapy
Scenarios covering many practical situations

- Pregnancy
- Breast feeding
- Children
- Elderly
- No guidelines
- Protons or x-rays?

- Health assessment
- Chronic disease
- End of life
- Organized screening
- Multifraction instead of monofraction
- Incorrect field placement
Outline TG109

1. Introduction and goals
2. Ethics in RP
3. Practical developments in biomedical ethics
4. Medical use of radiation relevant to ethical clinical decision-making
5. Reviewing practice from an ethical perspective
6. Case based examples in diagnostic
7. Case based examples in therapy
8. Education and training in ethics
9.1 Education and training of relevant stakeholders
9.2 Elements of Ethical Education and Training in RP in Medicine
9.3 Conclusion for Education and Training

ICRP
Elements of Ethical E&T in RP in Medicine

- **Remember**: Understanding what the facts mean
- **Understand**: Recognizing and recalling facts
- **Apply**: Applying the facts, rules, concepts, and ideas
- **Analyze**: Breaking down information into component parts
- **Evaluate**: Judging the value of information or ideas
- **Create**: Combining parts to make a new whole

**Competencies** (Attitudes/Behaviors)

**Skills** (ability to apply knowledge)

https://tips.uark.edu/using-blooms-taxonomy/
# Elements of Ethical E&T in RP in Medicine

<table>
<thead>
<tr>
<th>Knowledge</th>
<th>Skills (ability to apply knowledge)</th>
<th>Competencies (Attitudes/Behaviours)</th>
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<tbody>
<tr>
<td><strong>Core and procedural values of ethics of radiological protection in medicine</strong></td>
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<tr>
<td>- Identify the core components of dignity/autonomy</td>
<td>- Aware of fundamental human rights that dignity/autonomy and privacy must be respected</td>
<td>- Support the patient in making a decision</td>
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<td>- ...</td>
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Summary

- This report should help medical & RP professional to interact with a common language
- This report proposes a method to review the practices centered on the ethical values helping to compare different approaches and to solve ethical dilemma
- Ethics requires intellectual efforts (and the report has a solid theoretical part) it must be included in E&T of all RP pro that work in medicine
- Key-messages have been dispatched across the whole report