EPR - Medical Follow-up:
Medical follow-up of Individuals Involved in a Nuclear or Radiological Emergency.

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On 29 July 1957, the IAEA's Statute came into force.

‘To establish or adopt standards of safety for protection of health and minimization of danger to life is one of the IAEA functions’
Worldwide Radiation Accidents

- Number: ~500 accidents
- Exposed persons: ~3,000
- Fatalities: ~140
  - Radiation related: ~130
  - Not related to radiation: ~10

“...the safety and security measures have in common the aim of protecting human life and health and the environment...”

“a non-routine situation or event that necessitates prompt action, primarily to mitigate a hazard or adverse consequences for human health and safety, quality of life, property or the environment”

“Arrangements shall be made to identify individuals with possible contamination and individuals who have possibly been sufficiently exposed for radiation induced health effects to result, *and to provide them with appropriate medical attention, including longer term medical follow-up.*”

‘Prerequisites before termination of the emergency:
(a) A registry of those individuals who have been identified
(b) A programme for **longer term medical follow-up**
(c) a strategy for mental health and psychosocial support’

‘Objectives for the medical follow-up:
(a) Individuals who have suffered deterministic effects and of individuals incurring doses that exceed the threshold dose for deterministic effects

(b) Early detection and diagnosis of stochastic effects among the exposed population in order to allow for effective treatment.’
Accident Reports
### Experiences from Members States

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EPR - Medical Follow-up: Medical follow-up of Individuals Involved in a Nuclear or Radiological Emergency.

1. Introduction
2. The medical follow-up in nuclear or radiological emergencies
3. Follow-up of workers in the Russian federation after the nuclear accident in Chernobyl (1986).
4. Follow-up of workers in Belarus after the nuclear accident in Chernobyl
5. Follow-up of workers in Ukraine after the nuclear accident in Chernobyl
8. Seventeen years after Lia radiological accident: overview and follow-up (2001-2018)
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9. Radiopharmaceutical lethal accidents in USA
10. The medical follow-up of Epinal accident in France 2006. Patients treated by IMRT for a prostate adenocarcinoma cancer
12. Cases of cutaneous local radiation injuries during non-destructive testing radiography (KIRAMS's experiences)
13. The radiological accident of Chilca, Peru (2012)
14. The radiological accident of Ventanilla, Peru (2014)
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- Invitations to contribute and co-sponsor the publication to:
  - **IFRC**, International Federation of Red Cross and Red Crescent Societies.
  - **PAHO**, Pan-American Health Association.
  - **WHO**, World Health Organization.
  - **ILO**, International Labour Organization.

- Invitations for endorse the publication to medical societies.

- Two consultancy meetings during 2018 March and July in Vienna.
EPR - Medical Follow-up. Complementing the medical publications.

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<td><strong>1</strong> EPR - Medical 2005: Generic procedures for medical response during a nuclear or radiological emergency. (Updating process)</td>
<td><strong>4</strong> EPR - Medical Follow-up: Medical of Individuals Involved in a Nuclear or Radiological Emergency. (New document)</td>
<td><strong>6</strong> EPR-Medical Physicists 2018: Guidance for Medical Physicists in Support of Nuclear or Radiological Emergencies (New Document)</td>
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<td><strong>2</strong> EPR - Internal Contamination 2018: Medical Management of Persons Internally Contaminated With Radionuclides in a Nuclear or Radiological Emergency</td>
<td><strong>5</strong> EPR-Training Materials: Advanced Training Materials for Medical Response to a Nuclear or a Radiological Emergency (New Training)</td>
<td><strong>7</strong> EPR - Pocketbook for Medical Physicists 2018: Pocket Guide For Medical Physicists Supporting Response to Nuclear or Radiological Emergencies (New Document)</td>
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<td><strong>3</strong> Safety Reports Series: Medical Management of Radiation Injuries.</td>
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<td><strong>8</strong> EPR-Training Materials: Medical Physicist in Support of Nuclear or Radiological Emergencies (New Training)</td>
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Final comments

• EPR - Medical follow-up of Individuals Involved in a Nuclear or Radiological Emergency is a new document in the framework of the GSR Part 7 and the GSG-11, compiling information about the medical follow-up of individuals involved in radiation emergencies.

• It is planned to be submitted to the PC in the Q4 2018.
Questions?

Thank you for your attention.

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