

**RECORD KEEPING:  
INFORMATION TO BE RECORDED  
IN THE EVENT OF A RADIATION EMERGENCY\***

**IDENTIFICATION AND NOTIFICATION**

All cases	<ul style="list-style-type: none"> <li>• Identification of the individual(s) (name, sex, age, contact details)</li> <li>• Number of individuals involved</li> <li>• Notification to national/international authorities</li> <li>• Exposure conditions</li> <li>• Use of personal dosimeter (if occupationally exposed workers are involved)</li> </ul>
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**CIRCUMSTANCES OF THE EMERGENCY**

External irradiation	<ul style="list-style-type: none"> <li>• Activity of the source</li> <li>• Time of exposure</li> <li>• Duration of the exposure</li> <li>• Distance from the source</li> <li>• Estimation of dose rate and dose to the patient (to the whole body or tissues)</li>   <li>• Exposed parts of the body</li> <li>• Exposure to a sealed or open radioactive source (is there any information about the breakage of the container of the radioactive source?)</li> </ul>
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**External contamination**

External contamination	<ul style="list-style-type: none"> <li>• Radionuclides involved (if known)</li> <li>• Levels of activity concentration on the body surface</li> <li>• Body area involved</li> <li>• Potential internal contamination</li> </ul>
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\* Source: **Medical Management of Radiation Injuries**, Table 19: pages 72-73

IAEA Safety Reports Series No. 101 (IAEA, IFRC, PAHO, 2020)

<https://www.iaea.org/publications/12370/medical-management-of-radiation-injuries>

## Internal contamination

Internal contamination	<ul style="list-style-type: none"> <li>• Activity of the source</li> <li>• Time of exposure</li> <li>• Duration of the exposure</li> <li>• Intake</li> <li>• Pathway               <ul style="list-style-type: none"> <li>○ Inhalation Ingestion</li> <li>○ Through wounds</li> <li>○ Through intact skin</li> </ul> </li> <li>• Bioassay results</li> </ul>
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## RELEVANT MEDICAL INFORMATION ON INDIVIDUALS/PATIENTS

Health conditions & clinical manifestations	<ul style="list-style-type: none"> <li>• Radionuclides involved (if known)</li> <li>• Associated trauma</li> <li>• Consciousness and neurological manifestations</li> <li>• Comorbidities</li> <li>• Nausea and vomiting</li> <li>• Diarrhea</li> <li>• Anorexia</li> <li>• Asthenia</li> <li>• Fever</li> <li>• Skin lesions (erythema, blisters)</li> </ul>
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Tests and procedures	<ul style="list-style-type: none"> <li>• Laboratory tests (CBC, amylase, polymerase chain reaction or other samples)</li> <li>• Biodosimetry and bioassay samples</li> <li>• Drug administration (conventional and decorporating drugs)</li> <li>• Decontamination procedures performed</li> <li>• Personal items for physical dosimetry (dosimeter, if available, or, if possible, buttons, cell phones, watches, pendants, etc.)</li> <li>• Photograph/diagrams of the facility/practice involved</li> </ul>
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