

Notification codes, categories and criteria

Use these codes when you report an IR(ME)R incident.

Accidental exposure

Notification code	Exposure category	Criteria for notification
1 (England only)	All modalities including t herapy	3 mSv effective dose or a bove (adult) 1 mSv effective dose or a bove (child) (c)

Notification code	Exposure category	Criteria for notification
1 (Northern Ireland, Scotland & Wales)	All modalities including t herapy	All, regardless of dose

These notification criteria apply to the total exposure from the incident, including any intended component plus over-exposure and/or necessary repeat exposures. Where a multiplication factor is specified, this is defined as **the total dose from the incident divided by the intended dose**.

Where the exposure is not easily estimated in mSv or the dose unit is not specified, you may apply an alternative recognised unit and specify this in the notification.

Unintended exposure

All modalities including nuclear medicine and radiotherapy imaging

Notification code	Exposure category	Criteria for notification
2.1	Intended dose less than 0.3mSv	3mSv or above (adult) 1mSv or above (child)

Notification code	Exposure category	Criteria for notification
2.2	Intended dose between 0.3mSv and 2.5mSv	10 or more times than intended
2.3	Intended dose between 2.5mSv and 10mSv	25mSv or above
2.4	Intended dose more tha n 10mSv	2.5 or more times than intended.
3	Interventional/cardiology	Any unintended exposure resulting in observable tissue reactions, including but not limited to procedural failures o r equipment malfunctions. See additional guidance from the ICRP (International Commission on Radiolog ical Protection)

Notification code	Exposure category	Criteria for notification
4.1	Radiotherapy planning s cans	If a planning scan needs to be repeate d twice to obtain an appropriate datas et (3 scans in total, including the intend ed scan).
4.2a	Radiotherapy treatmen t verification images	Set-up error and/or hardware or softw are failure leads to 3 or more imaging exposures in a single fraction (includin g the intended image, 3 images in tota l). This applies to all radiotherapy trea tment regimes, including radical sh ort course fractionation (defined as 10 fractions or less).

Notification code	Exposure category	Criteria for notification
4.2b	Radiotherapy treatmen t verification images	When the number of additional imagin g exposures is 50% greater than inten ded over the course of treatment as a result of protocol failure. This applies to all radiotherapy trea tment regimes, including radical sh ort course fractionation (defined as 10 fractions or less).
4.2c	Radiotherapy treatmen t verification images	When the number of additional imagin g exposures is 50% greater than inten ded over the course of treatment as a result of thematic hardware or soft ware failure. This applies to all radiotherapy trea tment regimes, including radical sh ort course fractionation (defined as 10 fractions or less).

Notification code	Exposure category	Criteria for notification
5	Foetal All modalities	Where there is an unintended foetal e xposure AND the resultant foetal dose is 10mGy or more.
6	Breast feeding infant Nuclear medicine only	Where there has been a failure in procedure AND the resultant infant effective dose is 1 mSv or more.
7	Incorrec t radiopharmaceutical	Any administration of the incorrect rad iopharmaceutical to a patient, regardle ss of dose.

Radiotherapy delivered dose (including brachytherapy)

Notification code	Exposure category	Criteria for notification
8.1	Therapy over-exposure	Delivered dose to the planned treatme nt volume or organs at risk is 1.1 or mo re times (whole course) or 1.2 or more times (any fraction) the intended dose.
8.2	Therapy under-exposure	Delivered dose to the planned treatme nt volume is 0.9 or less times the inten ded dose (whole course). This excludes where the under-expo sure to the target volume is a result of a geographical miss, which is rep ortable under either 9.1 or 9.2.

Radiotherapy geographical miss (including brachytherapy)

9.1 Tota		
	al	All total geographical misses, even for a single fraction or significant part thereof.
9.2 Part	tial	Where the miss exceeds 2.5 times the locally defined e rror margin AND the guideline dose factors (codes 8.1 and 8.2) for the planning target volume or organs at ris k are exceeded. A surrogate for the locally defined error margin mi ght be a displacement of 2.5 times the local imagin g action level for specific anatomical site and treat ment intent.

Nuclear medicine therapy

Notification code	Exposure category	Criteria for notification
10.1	Selective interna I radiation therapy	Delivered activity is outside +/- 20% of th e prescribed activity.
10.2	All other nuclear medic ine therapies	Delivered activity is outside +/- 10% of th e prescribed activity.

Complementary notification codes

For these codes, you need to add the relevant suffix code 1 to 10. As well as notification codes 1 to 10. For example:

- M1 (accidental exposure of more than one individual within the same incident or theme)
- M2.1 (unintended exposure of more than one individual within the same incident or theme)

Notification code	Exposure category	Criteria for notification
M	Multiple patients expose d within the same inciden t or theme. (plus relevant suffix code 1 to 10)	A theme has been identified over a number of incidents. A single incident has involved multiple individuals. A separate, but similar incident has be en identified that affects more than one individual.

Notification code	Exposure category
E	Equipment fault exposure (plus relevant suffix code 1 to 9)
V	Voluntary notification (plus relevant suff ix code 1 to 9)

Notification code	Exposure category
С	Clinically significant event (plus relevant suffix code 1 to 9)

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