National Radiation Protection Office Update 7th December 2023

RADIATION SAFETY INCIDENTS REPORTED ON THE NATIONAL INCIDENT MANAGEMENT System (NIMS) Q3 2023

This report details the radiation safety incidents reported on the NIMS from July to September 2023. The figures listed below do not include incidents related to ultrasound, MRI or issues with extravasation of contrast from a peripheral vascular catheter.

1. Category of radiation safety incident

Category of incident	Radiology	Radiotherapy
Harm	13	
Near miss	163	23
No harm	133	35
Total number of reports	308	58

2. Category of person affected by the radiation safety incident

Category of person	Radiology	Radiotherapy
Adult patient / service user	295	58
New Born	1	
Staff member	12	

3. Details of the process involved in the incidents.

Radiology incidents reported on the NIMS in Q3 2023						
Process	Severity Rating					Total
	Extreme	Major	Moderate	Minor	Negligible	
Checking patient identification					38	38
Clinical details on referral			1		120	121
Documentation / records					32	32
Communication / consent					11	11
issues						
Equipment failure					36	36
Performing procedure					57	57
Pregnancy status					1	1
Not applicable / unknown					12	12

The 12 reports categorised as *not applicable / unknown* refer mainly to administrative errors and a breakdown in communication within the multidisciplinary team.

Radiotherapy incidents reported on the NIMS in Q3 2023						
Process	Severity Rating					Total
	Extreme	Major	Moderate	Minor	Negligible	
Communication / Consent					6	6
Documentation / Records					11	11
Equipment Failure					1	1
Performing Procedure					37	37
Pregnancy Status					1	1
Unknown					2	2

The 2 reports categorised as 'Unknown' refer to issues with treatment planning and scheduling.

4. The problems recorded in the incidents.

Radiology incidents reported on the NIMS in Q3 2023						
Problem	Severity Rating					Total
	Extreme	Major	Moderate	Minor	Negligible	
Diagnostic exposure greater than intended					25	25
General exposure related issue					23	23
Failure / malfunction of process					66	66
Wrong body part / side /site					82	82
Wrong patient (>1mSv)					11	11
Wrong patient (<1mSv)			1		31	32
Wrong process / treatment / procedure					33	33
Other / unknown					36	36

The 36 reports categorised as *other / unknown* refer mainly to staff exposures, inappropriate referrals and communication failures within the multidisciplinary team.

Radiotherapy incidents reported on the NIMS in Q3 2023						
Problem	Severity Rating					Total
	Extreme	Major	Moderate	Minor	Negligible	
Wrong treatment / process /procedure					29	29
Other					29	29

The 29 reports categorised as *Other* refer to issues with treatment planning and scheduling, the appropriate timing of treatment and failures which occurred during the delivery of treatment.