

AMRH/IC/GUD/005/Vers.01 Effective Date: August 2022 Review Date: August 2025

Document Tit	le: Guideline of Radiolo	ogical Waste Manage	ement				
Approval Process							
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Acronyms:

AMRH	Al Masarra Hospital
HCW	Health Care Worker
PPE	Personal Protective Equipment
WHO	World Health Organization



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Guideline of Radiological Waste Management

1. Introduction:

Radioactive wastes are materials contaminated with radionuclides. They are produced as a result of procedures such as in vitro analysis of body tissue and fluid, in vivo organ imaging and tumor localization, and various investigative and therapeutic practices. **this type of waste not applicable in al Masarra hospital**

2. Scope

This document is applicable to all Health Care Workers (HCWs) of AMRH and hospital's cleaning Contractor Company.

3. Purpose

3.1-To encourage and establish the culture of safe management of radiological hospital wastes

4. Definitions

- 4.1-Radioactive wastes are materials contaminated with radionuclides. They are produced as a result of procedures such as in vitro analysis of body tissue and fluid, in vivo organ imaging and tumor localization, and various investigative and therapeutic practices.
- 4.2 **Segregation** is the sorting of healthcare waste clearly identifying the various types of wastes and how they can be collected separately

5. Guidelines

5.1 Segregation, handling and packaging of Radioactive waste

5.1-Radioactive wastes should be collected and packed under the supervision of the radiation officer.



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- 5.2-The radioactive waste should be placed in proper lead boxes
- 5.3- Radioactive waste that is to be stored during radioactive decay should be labeled with the:
 - 5.3.1-Type of radionuclide,
 - 5.3.2-The date
 - 5.3.3- Details of required storage conditions
- 5.4- Each container of radioactive waste should have a label indicating date, time and point of production.

5.2 Waste management in radiology department in ALMasarra Hospital

Radiology department in Al Masarra Hospital contain of general x-ray room and plain CT room that means the contrast media is not available. Therefore, there are no sharp waste, no chemical waste and no radioactive waste. There are two colors coding for biomedical waste management in radiology department: yellow bags and black bags refer to P&P for waste segregation according hazard level and color coding it (AMRH/IC/P&P/013/Vers.02).

5.2.1 How to get rid of x-ray film?

- 5.2.1.1 Waste is collected in suitable container and labeled
- 5.2.2 All information in the waste is recorded and a waste inventory is established.
- 5.2.3 A written approval to carry out the waste management.
- 5.2.4 A waste should be returned to the suppliers or manufacturers.
- 5.2.5 HSE Department with collaboration with post and document department to discarded this type of waste. (New plane from ministry in 2023)



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6. Responsibility

6.1-Health, safety & environmental officer:

- 6.1.1 Train all HCW and cleaners in AMRH regarding of radiological waste management guideline.
- Perform quarterly audit in all departments regarding radiological waste management guideline.
- 6.1.3 Collaboration with mail and document department to discarded **x-ray film** (New plane from ministry in 2023). And Implementation of the current plan to dispose of this waste

6.2 Radiologist:

- 6.2.1 Must wear appropriate PPE while handling the wast.
- 6.2.2 Must aware about get rid of x-ray film.

7. Document History and Version Control

Document History and Version Control Version Description of Amendment Author Review Date 1 Initial Release Thuraya Al Farsi August 2025 Written by Reviewed by Approved by Thuraya Al Farsi Wafa Al Balushi Dr. Bader Al Habsi



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8. Related Document

9.1 Audit Tool

9. References

Title of book/journal/articles/	Author	Year of	Page
Website		Publication	
Decontamination and waste management	World Health Organization	2020	25-29
Infection Prevention & Control Manual(Waste Management)	GCC Centre for Infection Control. Ministry of National Guard. KSA	2013	251-256



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Appendices

Appendix 1. Audit Tool

S.N.	Audit	Standard/ Criteria	Yes	No	N/A	Comment
	Process					
1.	Observation/ interview	What types of waste in radiology department?				
2.	interview	How to get rid of x-ray film?				
3.	interview	Are radioactive waste placed in proper lead boxes?				



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Appendix 2. Document Request Form

Document 1	Request Fo	rm			•		
Section A:	Completed	by I	ocument Re	quester			
1. Reque	ester Details						
Name	Thuraya Al	Farsi		Date of Request	July 2022		
Institute	Al Masarra	Hosp	tal	Mobile	_		
Department	HSE			Email	_		
The Purpose	of Request						
Devel Docur	op New ment		Modification of Document		Cancelling of Document		
1. Docur	nent Informa	tion					
Document Tit	tle	Guio	uideline of Management Radiological Waste				
Document Co	ode	AMR	MRH/IC/GUD/005/Vers.01				
Section B: Co	ompleted by	Docu	ment Controlle	er			
Approved			Cancelled Fo		orward To:		
Comment and	Recommend	lation					
Name Ku		Kun	Doz Al Balushi Date		010722		
Signature		06	wo Z	Stamp	2119-11		

Appendix 3. Document Validation Checklist



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	ent Validation Checklist				
Radiol	nent Title: Guideline of Management ogical Waste	Docum	ent Cod	e: AMRH/IC	C/GUD/005/Vers.01
	Criteria	Meets the Criteria			Comments
		Yes	No	N/A	
1. A	Approved format used				
1.1	Clear title - Clear Applicability				_
	ndex number stated	L			
1.3 F	leader/ Footer complete	-			
1.4 A	Accurate page numbering	-			
1.5 I	involved departments contributed	-			
1.6 I	Involved personnel signature /approval	<u></u>			
1.7	Clear Stamp	1			
2. I	Document Content				
2.1	Clear purpose and scope	L-		_	
2.2	Clear definitions	<u> </u>			
2.3	Clear policy statements (if any)				
3.	Well defined procedures and steps				
	Procedures in orderly manner				1
3.2 I	Procedure define personnel to carry out step			<u></u>	
	Procedures define the use of relevant forms				
3.4 I	Procedures to define flowchart				
3.5 I	Responsibilities are clearly defined	<u></u>			
3.6	Necessary forms and equipment are listed				
	Forms are numbered	<u></u>			
3.8 I	References are clearly stated	<u> </u>			
4 (General Criteria				
4.1 I	Policy is adherent to MOH rules and regulations	<u></u>			
4.2 I	Policy within hospital/department scope	-			
4.3 I	Relevant policies are reviewed	-			
	Items numbering is well outlined	-	-		_
4.5 T	Used of approved font type and size	-			
4.6 I	Language is clear, understood and well				
Recon	nmendations For implementation	. More	revisio	n T	o be spacelled
	wed by: Kunooz Al-Balushi	I	Review	ed by: 🚜	UNITE BUENO

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