

# Individual Monitoring Etiquette at IAEA Radiation Safety Technical Services During COVID-19 Pandemic

#### **Michael Hajek**

International Atomic Energy Agency Division of Radiation, Transport and Waste Safety Vienna International Centre, Vienna, Austria

E-Mail: m.hajek@iaea.org

IAEA Webinar Series | Continuity in COVID-19 Pandemic 27 May 2020, IAEA COVID-19 Webinar Series

# **Radiation Safety Technical Services Laboratory**

- External and internal individual monitoring for all operations under IAEA control or supervision around the globe
  - Accreditation to EN ISO/IEC 17025:2017
  - Bound to IAEA Radiation Safety and Nuclear Security Regulations implementing requirements of International Basic Safety Standards











# **Continuation of Service**



- Nine weeks of access restrictions before gradual return to premises
- Safety-critical service to be maintained during COVID-19 pandemic
  - Continuation of safeguards inspections worldwide to ensure that nuclear material is not diverted from peaceful use
  - Postponement of most meetings and non-critical travel through at least 1 June 2020



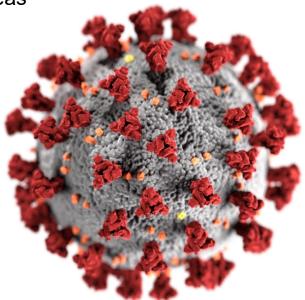
# **General Guidance**



Working in separate teams rotated weekly to reduce contagion

### Adherence to general hygiene measures

- Avoid close contact with others and keep a minimum distance of 1 m
- Wear face masks covering mouth and nose in public areas
- Practise frequent hand hygiene
- Avoid shaking hands and touching your face
- Limit touching of door knobs
- Stay home with fever and/or respiratory symptoms
- Seek remote guidance from Medical Service if unsure



# **Measures for External Dosimetry**

## Extension of monitoring period for dosimetry of record

- 1 month  $\rightarrow$  3 months
- 3 months  $\rightarrow$  up to 6 months

## Provision of active personal dosimeters upon request

- Direct reading capability
- Continuous operation up to 5 months

## Personal safety

- Disinfection of all items returned by clients
- Use of personal protective equipment as appropriate













# **Measures for Internal Dosimetry**

- Extension of confirmatory in-vivo monitoring intervals to 12 months in favour of in-vitro bioassay of excreta
  - De facto temporary suspension of confirmatory in-vivo monitoring
  - Minimization of SARS-CoV-2 spread

### Maintenance of routine QA/QC procedures

 Availability of whole-body counter in the event of suspected internal contamination and emergencies

## Personal safety

- Wear of face masks for monitored individuals and FFP3 respirators for laboratory technicians
- Frequent disinfection of equipment, ventilation of room











# **Guiding Work Procedure**



WI-IM-10 0 2020-05-06 1   Cuality Management System Radiation Safety Technical Services Laboratory   GUIDANCE ON INDIVIDUAL MONITORING DURING COVID-19 PANDEMIC OUTBREAK   Muthorized Function Name Signature and Date   Authorized Deputy Technical Manager D. Tucker TUCKER, David Digital speed by UCCRE, During David Digital speed by UCCRE, During Digital speed by UCCRE, During Digi	(A)	Code	Revision Numb	Date of entry into force	Page	of pages		
Quality Management System Radiation Safety Technical Services Laboratory   GUIDANCE ON INDIVIDUAL MONITORING DURING COVID-19 PANDEMIC OUTBREAK   GUIDANCE ON INDIVIDUAL MONITORING DURING COVID-19 PANDEMIC OUTBREAK   Authorized Function Name Signature and Date   Authorized Deputy Technical Manager D. Tucker TUCKER, David Digitaly spend by David Digitaly spend by Digitaly S	IAEA	WI-IM-10	0	2020-05-06	1			
Approved Medical Director M. Lademann LADEMANN Matthias Opposite Director Director Opposite Director Matthias Opposite Director Director Director   Approved Medical Director M. Lademann LADEMANN Matthias Opposite Director Director Director Opposite Director Director Director   Approved Service Group Leader M. Hajek HAJEK, Michael Opposite Director Director Director Opposite Director   BENESCH, Opposite Director T. Benesch BENESCH, Director Director						1		
Function Name Signature and Date   Authorized Deputy Technical Manager D. Tucker TUCKER, David District States and David District States and David   Approved Medical Director M. Lademann LADEMANN, Matthias District States and David District States and David District States and David   Approved Service Group Leader M. Hajek HAJEK, Michael District States and District States and District States and District States and District States and District States and Date   Repistered Outsity Manager T. Benesch BENESCH, BENESCH, David States and Date	Gυ					N G		
Authorized Deputy Technical Manager D. Tucker TUCKER, David Option input by Distribution   Approved Medical Director M. Lademann LADEMANN Matthias Option ispect by Distribution   Approved Medical Director M. Lademann LADEMANN Matthias Option ispect by Distribution   Approved Service Group Leader M. Hajek HAJEK, Michael Option ispect by Distribution   BENESCH, Option ispects T. Benesch BENESCH, BENESCH, Distribution		COVID-	19 PAND	EMIC OUTBREAK	(			
Authorized Deputy Technical Manager D. Tucker TUCKER, David Option input by Distribution   Approved Medical Director M. Lademann LADEMANN Matthias Option ispect by Distribution   Approved Medical Director M. Lademann LADEMANN Matthias Option ispect by Distribution   Approved Service Group Leader M. Hajek HAJEK, Michael Option ispect by Distribution   BENESCH, Option ispects T. Benesch BENESCH, BENESCH, Distribution								
Authorized D. Tucker David Desc 2000 not 60 US182-0-000   Approved Medical Director M. Lademann LADEMANN, Dublic speed by Matthias Dublic speed by Dublic spee		Function	Name	Signature and	Date			
Approved Neducal Director M. Laberhamn Matthias Disk 200 00.00 00 15 00 +0007   Approved Service Group Leader M. Hajek HAJEK, Michael Disk 400 00 10 01 20 4 20 +0007   Repistered Quality Manager T. Benesch BENESCH, BENESCH, Improvement meters from	Authorized		D. Tucker	TUCKER, Digitally TUCKER, Digitally TUCKE David Digitally TUCKE 10.51.0	signed by R, David 120.05.05 2 +02'00'			
Approved Service Group Leader M. Hajek Michael Michael Michael Michael Benesch BENESCH, approximation free	Approved	Medical Director	M. Lademann	BALLET Date: 2	Date: 2020.05.05			
	Approved	Service Group Leader	M. Hajek	HAJEN, HAJEK Michael				
	Registered	Quality Manager	T. Benesch		wd by BENESCH, Tobias 8.06 15:57:40 +0200			
Summary: This procedure is designed to make individual monitoring services s available and minimize risk to laboratory personnel and monit individuals during the COVID-19 pandemic outbreak.	Summary:	availab	ole and minimize	e risk to laboratory persor	nnel and			
Valid version available: X:104_Working_InstructionsIIndividual Monitoring Service Group) Basic_WIWI-IM-10_Individual_Monitoring_During_COVID-19_V0.dc	Valid versio							

	Code	Revision Number	Date of entering into force	Page	of pages		
	WI-IM-10	0	2020-05-06	2	8		
			L MONITORING I MIC OUTBREAK	DURIN	IG		
Та	ble of contents						
Tal	ble of contents						
1	Purpose and scope						
2	Risks and safety instruction	s					
3	Roles and responsibilities						
4	Equipment						
5	Procedure						
	5.1 Prioritization						
	5.3 Protection						
6	,,,						
7							
8	,						
9							
		5 1 1	oster s for use against SARS-CoV-;				
	5.2 Annex 2. Compatible	surface disinfectante	for use against OARS-COV-				
Prin	ted copies are not controlled for valid vidual Monitoring Service Group\Basi	ity. For valid copy, please	refer to: X:\04Working_Instruction	ns\			
Indi	vidual Monitoring Service Group\Basi	c_WI\WI-IM-10_Individua	[_Monitoring_During_COVID-19_V0.	docx.			

# **Collaboration with Clients**



# Poster reminder of individual monitoring at laboratory entrance

 Complimentary to comprehensive guidelines advised by United Nations Offices in Vienna

## Regular correspondence with Radiation Protection Officers

- Facilitation of information of workers
- Roundtables to discuss safety issues

## Backup services in case of incapacity

 Practical Arrangements with external suppliers of individual monitoring services





N