

Preliminary Risk Assessment of the Design of Facilities for the Preparation of Advanced Therapy Medicinal Products

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	Introduction - Objective			Methods								
Project to create premises for the compounding of advanced therapy medicinal products (ATMP) in our hospital: • In response to requests from physicians and clinical trial sponsors. → Conducting a preliminary risk assessment of the ATMP pharmaceutical circuit within these temporary premises:		Design of plans for the ATMP unit in vacant premises outside the pharmacy in accordance with:										
		Good Pre	paration Practices		Guidelines of the F Council for Biote		<u> </u>					
		2 Conducting a Failure Modes, Effects and Criticality Analysis (FMECA):										
To identify critical steps and, where necessary, to propose improvement measures.		 By a multidisciplinary working group including pharmacists, technicians, a health executive, and a quality officer, Following each step of the circuit for personnel and products, from the reception of the ATMP in the hospital pharmacy to the dispensing of the reconstituted ATMP. 										
	Results		→ Ide		_			des according to their residual criticality (Cr):				
Defined areas	Unpacking		low: Cr		r = occurence (O) × severit moderate: 4							
	Storage		FAILURE MODE Unpacking room	EFFECTS	S	CAUSES	0	CONTROL MEASURES		С	Cr	
	Product entry airlock	ock			Т			Specific procedure .		_		
	Staff entry and exit airlock		Inadequate unpacking	Chemical / biological contamination of staff		Non-compliance with unpacking	۱ و	Training and qualification of staff.		3	1 2	
	Preparation room equipped with a hybrid isolator		procedures	and environment		procedures		Deconditioning dry run of each ATMP. Access restricted to authorized staff.				
	Finished product exit airlock		Preparation room – Co	mpounding of ATMP								
	Release and dispensing		Poor cleanliness of		4	Non-compliance with preparation enclosure		Compounding procedure for ATMP and isolator bic procedure.	cleaning			
	Waste (room and airlock)							Training and qualification of staff.		3	36	
• Identi	fication of 63 failure modes associated with this circuit,		(hybrid isolator)	quality. Financial loss		biocleaning procedures		Biocleaning traceability after each compounding. Checklist validated before compounding.				
Control measures considered at each step,		Exit airlock for finished										
 No Cr ≥ 40 ⇒ No further action required. 		Poor cleanliness of the	Particulate / microbiological contamination of the	3	Simultaneous	2	Automatic interlocking system preventing simultan opening of entry and exit doors.		1	6		
			airlock					, jupering of entry and exit doors.				

The FMECA identified the critical steps of the ATMP circuit in the pharmacy, defined appropriate control measures, and validated both facility design and organizational workflow. These findings will support the authorization request to the Regional Health Agency, demonstrating process control, before the initiation of ATMP compounding in our hospital.