

3PC-036 RISK ANALYSIS OF THE PHARMACEUTICAL CIRCUIT FOR INJECTABLE CHEMOTHERAPIES AFTER IMPLEMENTATION OF DRUGLOG ®



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INTRODUCTION As part of a quality assurance approach, a UV-visible spectrophotometer (Druglog®) has been installed in 2021 in the cytotoxic reconstitution unit (CRU), enabling pre-release analytical control. This new stage has led to a new risk analysis using the FMECA method (Failure Modes, Effects and Criticality Analysis). The aim was to evaluate the entire injectable chemotherapy process compared with an initial FMECA carried out in 2016 in order to assess the added value of the DrugLog®tool. (\mathbf{I}) <u>2023</u> <u>2016</u> 2021 Second FMECA **First FMECA DrugLog**[®] installation **MATERIAL & METHOD** Multidisciplinary team Six working meetings June - September 2023 2 pharmacists, 1 resident, 1 pharmacy technician Update failure modes (FM) Calculation of a Classification of Development of a identified in 2016 to finish at 97 FM criticality index (CI) for different criticalities criticality scale in 2023 (i.e +20FM) each FM **Criticality index** Frequency Criticality index rating CI = FxSxD1 2 5 3 4 Light IC < 25 9 1 1 4 16 25 2 2 8 18 32 50 Moderate 25 < IC < 75 **F** : frequency 75 Severity 3 12 27 48 3 > 75 Severe **S** : severity 4 4 16 36 64 100 45 80 5 5 20 125 **D** : detectability 3 4 1 2 5 Detectability RESULTS

	premises	Equipment		2016	2023	
FM common to both years, divided into to categories			Light	63	68	
	+55%	+31%	Moderate	7	2	
Dispensing	orsona	Supply	Severe	0	0	



CONCLUSION & DISCUSSION

DrugLog [®] allows a liberation more reliable with qualitative and quantitative assay. Indeed comparison of FMECA highlight an improvment of our practices in the area of liberation. However, not all molecules are dosed on DrugLog (antibodies, clinical trials, etc.), which means that double-checking must be maintained for certain preparations.

Major changes had been made since the first FMECA, such as the introduction of double validation when entering computer protocols, which explains the significant improvements.

The increase in criticality in certain categories is explained by ageing equipment and premises (currently being renewed), as well as by the increase in production (+25% in 6 years) and the specificities of molecule preparation.

