

# Assessment of the installation of a digital video control for standard and experimental anticancer injectable preparations.

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## Introduction :

On 2016, a feasibility study about installation of a digital video control (DVC) for standard injectable anticancer drug preparations (SAIP) and for injectable anticancer drugs preparations in Clinical trials (AIPCT) was performed.

Results of the feasibility study:

		SAIP	AIPCT
Without DVC	Average duration of preparation and control (by preparation)	3min 20s	12min 15s
	Control method	HPCL / Spectrophotometer	Visual Control / Checklist
	% of controlled preparations	30%	100%
Simulation with DVC	Average duration of preparation and control (by preparation)	<4min 20s	<13min15
	% of controlled preparations by DVC	93%	74%

Four year after the first installation, exhaustivity and impact of DVC was assessed.

## Method :

Data from January 1th to May 31th , 2020 of DRUGCAM® CONTROL and CHIMIO® was extracted in order to evaluate for SAIP and AIPCT :

- The percentage of preparation controlled by DVC regarding all SAIP and AIPCT.
- The average preparation duration for preparation controlled by DRUGCAM®
- The percentage of controlled preparations of which, at least one step is not recognized by DRUGCAM ASSIST® called « orange preparations »
- The average control duration of orange preparations was obtained by timing.

## Results:

	SAIP	AIPCT
Number of preparation	42 570	3 360
Average duration of preparation and control (by preparation)	2 min 34s	4 min 27s
% of controlled preparations	53%	76%
% of « orange » préparations	23%	100%
Average control duration for orange preparation	<50s	<50s

## Conclusion :

Since 2016, SAIP and AIPCT quality was improved by DVC DRUGCAM® without major impact on the preparation duration.

Percentage of SAIP controlled by DVC remains below to the set target due difficulties with some preparations (powder, colored solution).

Experimental drug vials (study name; batch) were not recognized by DVC DRUGCAM®, so the double visual control AIPCT remains but the DVC control stay faster than 2016.

Improvement of various functionalities of CVN DRUGCAM® remains essential for scaling up and optimization of standard and experimental injectable cancer preparations control.