

# Residual volume of anticancer drugs when administering a preparation with filter tubing:

## What solution?

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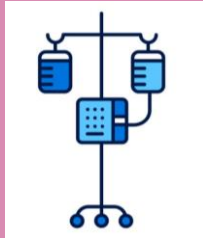
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### Context

Within our oncology department, anti-cancer drugs are administered using infusion pumps. **Some of these treatments require the use of a tube fitted with a 0.2µm filter.**

Nurses reported the presence of residual volume in the infusion bags equipped with filter tubing, during the administration of anticancer drugs.



### Objectives



- Assess the residual volume present in the infusion bags equipped with filter tubing from the initial administered method
- Evaluate the new infusion Bag Hanger<sup>®</sup> from Codan to resolve this problem

### Material and method

Prospective and comparative study conducted over 2 periods of 2 weeks :

- Period A : without the use of the Infusion Bag Hanger<sup>®</sup>
- Period B : with the use of the Infusion Bag Hanger<sup>®</sup>

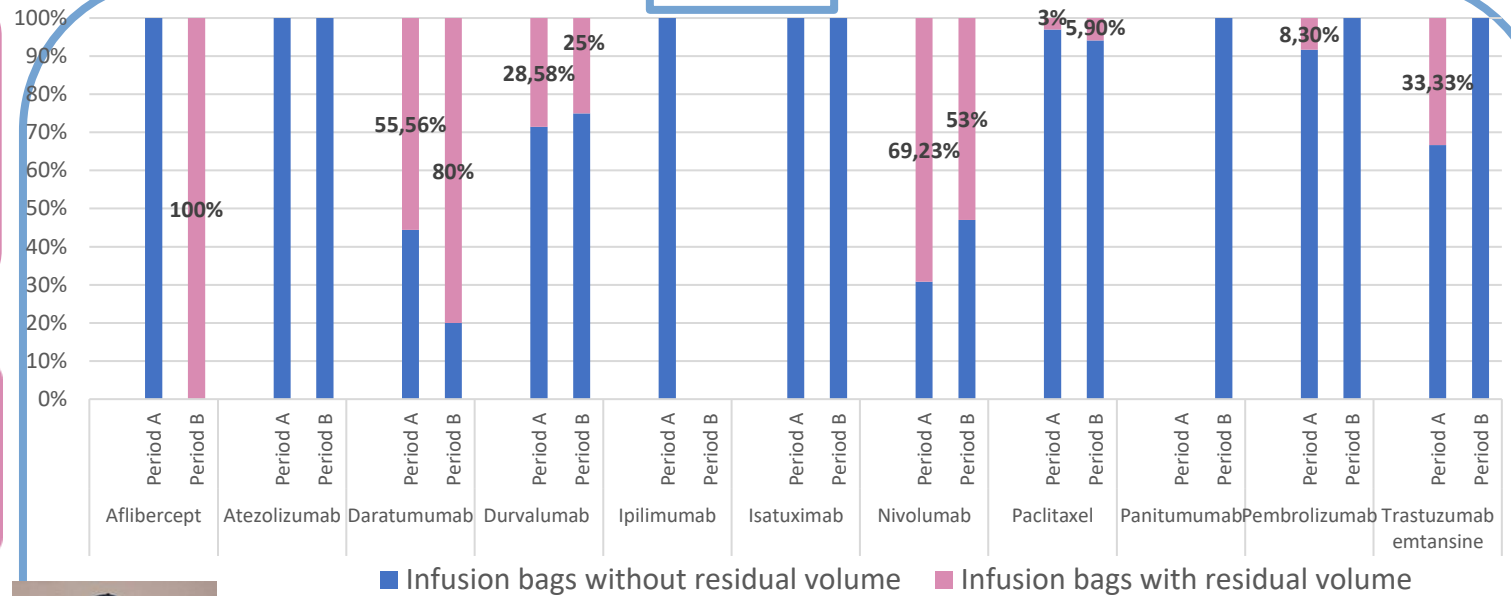
Two comparison criteria:

- **Quantification of infusion bags equipped with filter tubing with residual volume**
- **Visual estimation of the residual volume**

Evaluation of the benefits brought by the use of Infusion bag hanger<sup>®</sup> from Codan by comparing :

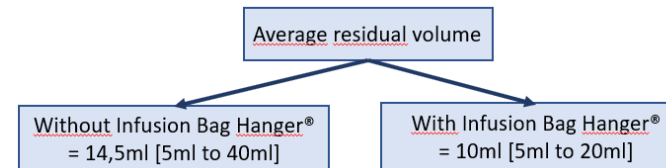
- The number of bags involved with the Chi-square test
- The average residual volume with the Wilcoxon-Mann Whitney test

### Results



Infusion bag Hanger<sup>®</sup>

**No association between the use of Infusion bag Hanger<sup>®</sup> and the absence of residual volume was statistically demonstrated ( $p < 0.731$ )**



**No decrease in residual volume was demonstrated when using Infusion bag hanger<sup>®</sup> ( $p < 0.918$ )**

### Conclusion

This problem is restrictive for the nurses who have to apply pressure on the bag to administer the entire preparation to the patient. The solution considered is not relevant. The study could however gain in reliability with a more precise measurement method.